

Remediation and Reclamation Plan

General Information

NMOCD District:	District 2 - Artesia	Incident ID:	nAPP2410231723
Landowner:	Private	RP Reference:	N/A
Client:	EOG Resources, Inc.	Site Location:	Skor 34 Federal Com #1
Date:	July 5, 2024	Project #:	24E-03090
Client Contact:	Chase Settle	Phone #:	575.703.6537
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

Objective

The objective of the environmental remediation plan is to identify exceedances found during the site characterization activities and propose an appropriate technique to address the open release for Skor 34 Federal Com #1. On April 10, 2024, EOG Resources, Inc. reported an unauthorized third party released an unknown quantity of an unknown substance believed to be produced water in the pasture near the southeast corner of the oil well pad. Areas of environmental concern identified and delineated include the pasture adjacent to the southeast corner of the pad where the unauthorized release occurred. An aerial photograph of the site with characterization locations and approximate area of release impact is presented on Figure 1 (Attachment 1). Closure criteria have been selected as per New Mexico Administrative Code (NMAC) 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 5. The closure criteria for the site are presented below (Table 1).

Table 1. Closure Criteria for Soils Impacted by a Release DTGW <50 feet bgs		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

DTGW – depth to groundwater

Site Assessment/Characterization

Site characterization started on June 14, 2024, and was completed on June 21, 2024. A total of 16 sample points (11 boreholes and five testpits) were established. They were obtained at various depths for horizontal and vertical delineation. Samples at the greatest lateral limits and the deepest vertical distance below criteria were submitted to the laboratory for analysis. In total, 42 samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for laboratory analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). A daily field report with photographs is included in Attachment 3 and laboratory data reports are included in Attachment 4. Exceedances to criteria are identified in the table in bold font with a green background.

Proposed Remedial Activities

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Field screening will be utilized to confirm removal of contaminated soil until the excavation is below the

Remediation and Reclamation Plan

applicable closure criteria. Contaminated soil will be stored on a 30 mil liner prior to disposal at an approved facility. Confirmatory samples will be collected during excavation activities and will be sent to an approved laboratory to confirm closure criteria guidelines are met. The excavation will be backfilled with clean soil sourced locally and immediately reclaimed to the requirements set forth in 19.15.29.13 NMAC.

Exceedances to closure criteria were identified at multiple sample points in the pasture southeast of the pad. Heavy equipment will be utilized to complete the excavation. The release area will be excavated to depths of 2 to 4 feet below ground surface. The estimated volume to be excavated is 1,500 cubic yards. Excavation is planned to be completed within 90 days of approval of this remediation plan.

Sample Point	Excavation Depth	Remediation Method
BH24-06	2'	Backhoe
BH24-14	3'	Backhoe
TP24-01	3'	Backhoe
TP24-02	4'	Backhoe
TP24-03	2'	Backhoe
TP24-04	3'	Backhoe
TP24-05	3'	Backhoe

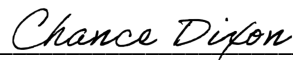
Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertexresource.com.



Andrew Ludvik, B.Sc.
ENVIRONMENTAL TECHNICIAN, REPORTING

7/8/2024

Date



Chance Dixon, B.Sc.
PROJECT MANAGER, REPORT REVIEW

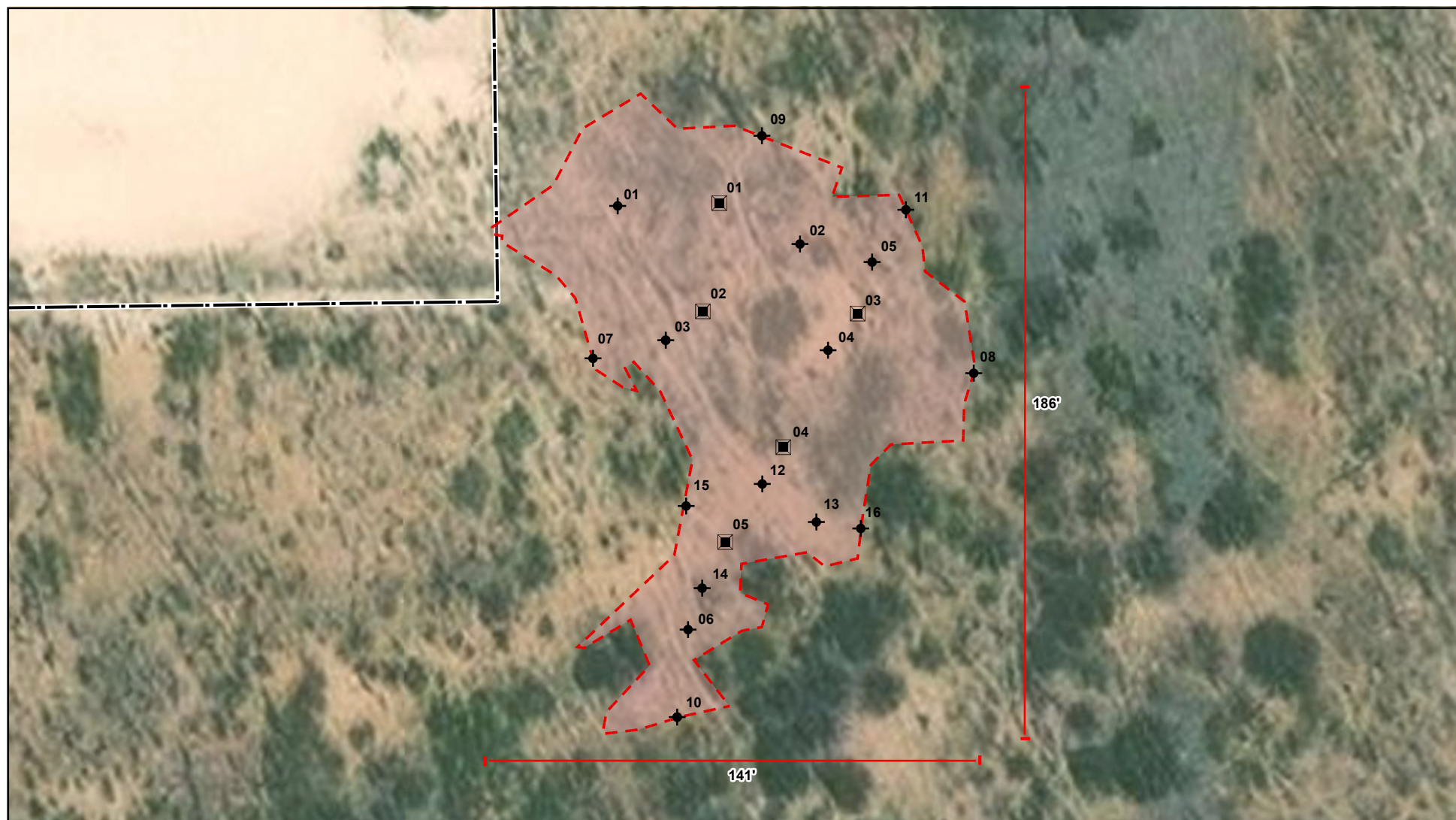
7/8/2024

Date

Attachments

- Attachment 1. Characterization Sampling Site Schematic
- Attachment 2. Field Screening and Laboratory Results Table
- Attachment 3. Daily Field Report with Photographs
- Attachment 4. Laboratory Data Reports with Chain of Custody Forms
- Attachment 5. Closure Criteria Research

Attachment 1



◆ Borehole (Prefixed by "BH24-")
 ■ Testpit (Prefixed by "TP24-")
 — Approximate Lease Boundary
 - - - Release Area (~ 12,178 sq. ft.)



0 10 20 40 ft
 NAD 1983 UTM Zone 13N
 Date: Jun 26/24

Map Center:
 Lat/Long
 32.430412°, -104.1741°



Characterization Sampling Site Schematic Skor 34 Federal Com #1

FIGURE:

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2023. Approximate site boundary from sketch by Vertex Professional Services Ltd. (Vertex), 2024. Site features from GPS, Vertex, 2024.

VERSATILITY. EXPERTISE.

Attachment 2

Client Name: EOG Resources

Site Name: Skor 34 Federal Com 1

NMOCD Tracking #: nAPP2410231723

Project #: 24E-03090

Lab Report(sX): H243555, H243576, H243767

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatiles Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
			(ppm)	(ppm)	(ppm)	Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BH24-01	0	06.14.24	-	-	2,480	ND	ND	ND	ND	ND	ND	ND	2040
BH24-01	1	06.14.24	-	-	898	ND	ND	ND	ND	ND	ND	ND	4040
BH24-02	0	06.14.24	-	-	3,690	ND	ND	ND	ND	ND	ND	ND	5200
BH24-02	1	06.14.24	-	-	1,533	ND	ND	ND	ND	ND	ND	ND	1720
BH24-03	0	06.14.24	-	-	5,913	ND	ND	ND	ND	ND	ND	ND	10400
BH24-03	1	06.14.24	-	-	3,788	ND	ND	ND	25.2	ND	ND	25.2	3600
BH24-04	0	06.14.24	-	-	2,625	ND	ND	ND	ND	ND	ND	ND	3520
BH24-04	1	06.14.24	-	-	2,820	ND	ND	ND	ND	ND	ND	ND	1550
BH24-05	0	06.14.24	-	-	2,800	ND	ND	ND	ND	ND	ND	ND	2760
BH24-05	1	06.14.24	-	-	3,238	ND	ND	ND	ND	ND	ND	ND	2280
BH24-06	0	06.14.24	-	-	2,635	ND	ND	ND	ND	ND	ND	ND	8000
BH24-06	1	06.14.24	-	-	424	ND	ND	ND	ND	ND	ND	ND	720
BH24-06	2	06.14.24	-	-	365	ND	ND	ND	ND	ND	ND	ND	368
BH24-07	0	06.14.24	-	-	117	ND	ND	ND	ND	ND	ND	ND	ND
BH24-07	0.5	06.14.24	-	-	94	ND	ND	ND	ND	ND	ND	ND	ND
BH24-08	0	06.14.24	-	-	238	ND	ND	ND	ND	ND	ND	ND	32
BH24-08	1	06.14.24	-	-	147	ND	ND	ND	ND	ND	ND	ND	32
BH24-09	0	06.14.24	-	-	243	ND	ND	ND	ND	ND	ND	ND	16
BH24-09	1	06.14.24	-	-	108	ND	ND	ND	ND	ND	ND	ND	ND
BH24-10	0	06.14.24	-	-	225	ND	ND	ND	ND	ND	ND	ND	48
BH24-10	1	06.14.24	-	-	438	ND	ND	ND	ND	ND	ND	ND	496
BH24-11	0	06.17.24	-	-	252	ND	ND	ND	ND	ND	ND	ND	16
BH24-11	1	06.17.24	-	-	225	ND	ND	ND	ND	ND	ND	ND	16
BH24-12	0	06.17.24	-	-	2,630	ND	ND	ND	ND	ND	ND	ND	7280
BH24-12	1	06.17.24	-	-	925	ND	ND	ND	ND	ND	ND	ND	1180
BH24-13	0	06.17.24	-	-	2,868	ND	ND	ND	ND	ND	ND	ND	6720
BH24-13	1	06.17.24	-	-	630	ND	ND	ND	ND	ND	ND	ND	560
BH24-14	0	06.17.24	-	-	3,316	ND	ND	ND	ND	ND	ND	ND	8600
BH24-14	1	06.17.24	-	-	275	ND	ND	ND	ND	ND	ND	ND	240
BH24-14	1.5	06.17.24	-	-	275	ND	ND	ND	ND	ND	ND	ND	224
BH24-15	0	06.17.24	-	-	113	ND	ND	ND	ND	ND	ND	ND	ND
BH24-15	1	06.17.24	-	-	106	ND	ND	ND	ND	ND	ND	ND	16
BH24-16	0	06.17.24	-	-	150	ND	ND	ND	ND	ND	ND	ND	32
BH24-16	1	06.17.24	-	-	115	ND	ND	ND	ND	ND	ND	ND	16
TP24-01	0	06.20.24	-	-	2,148	ND	ND	ND	ND	ND	ND	ND	2000
TP24-01	1	06.20.24	-	54	680	ND	ND	ND	ND	ND	ND	ND	448
TP24-01	2	06.20.24	-	56	1,145	ND	ND	ND	ND	ND	ND	ND	864
TP24-01	3	06.20.24	-	60	258	ND	ND	ND	ND	ND	ND	ND	80
TP24-01	4	06.20.24	-	21	290	-	-	-	-	-	-	-	-
TP24-02	0	06.20.24	-	-	7,313	ND	ND	ND	ND	ND	ND	ND	5440
TP24-02	1	06.20.24	-	71	1,173	ND	ND	ND	ND	ND	ND	ND	784
TP24-02	2	06.20.24	-	30	518	ND	ND	ND	ND	ND	ND	ND	224
TP24-02	3	06.20.24	-	51	1,133	ND	ND	ND	ND	ND	ND	ND	992
TP24-02	4	06.20.24	-	28	280	ND	ND	ND	ND	ND	ND	ND	256
TP24-03	0	06.20.24	-	-	3,393	ND	ND	ND	ND	ND	ND	ND	3120
TP24-03	1	06.20.24	-	-	930	ND	ND	ND	ND	ND	ND	ND	912
TP24-03	2	06.21.24	-	22	293	ND	ND	ND	ND	ND	ND	ND	64
TP24-03	3	06.21.24	-	25	278	-	-	-	-	-	-	-	-
TP24-03	4	06.21.24	-	23	273	-	-	-	-	-	-	-	-

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
TP24-04	0	06.21.24	-	-	7,053	ND	ND	ND	ND	ND	ND	ND	7920
TP24-04	1	06.21.24	-	-	1,703	ND	ND	ND	ND	ND	ND	ND	1170
TP24-04	2	06.21.24	-	-	1,963	ND	ND	ND	ND	ND	ND	ND	1380
TP24-04	3	06.21.24	-	48	555	ND	ND	ND	ND	ND	ND	ND	272
TP24-04	4	06.21.24	-	57	523	-	-	-	-	-	-	-	-
TP24-05	0	06.21.24	-	-	8,805	ND	ND	ND	ND	ND	ND	ND	9360
TP24-05	1	06.21.24	-	-	2,145	ND	ND	ND	ND	ND	ND	ND	1520
TP24-05	2	06.21.24	-	-	1,708	ND	ND	ND	ND	ND	ND	ND	1520
TP24-05	3	06.21.24	-	38	513	ND	ND	ND	ND	ND	ND	ND	48
TP24-05	4	06.21.24	-	50	298	-	-	-	-	-	-	-	-

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)

Attachment 3

Daily Site Visit Report



Site Photos

Viewing Direction: West



Viewing Direction: West



Viewing Direction: North



Viewing Direction: North





Daily Site Visit Report

Viewing Direction: North



Viewing Direction: West



Viewing Direction: North



Viewing Direction: West





Daily Site Visit Report

Viewing Direction: Northeast



Viewing Direction: North



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Wyatt Wadleigh

Signature:  _____
Signature

Attachment 4



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

June 19, 2024

CHANCE DIXON

VERTEX RESOURCE GROUP

420 SOUTH MAIN, SUITE 202

TULSA, OK 74103

RE: SKOT 34 FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 14:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 01 0' (H243555-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16	
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 01 1' (H243555-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 02 0' (H243555-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 02 1' (H243555-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 03 0' (H243555-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 03 1' (H243555-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	25.2	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 04 0' (H243555-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 04 1' (H243555-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 05 0' (H243555-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	2.00	100	2.00	6.16		
Toluene*	<0.050	0.050	06/19/2024	ND	1.91	95.7	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.0	2.00	6.48		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.80	96.6	6.00	7.19		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 05 1' (H243555-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 10 0' (H243555-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 10 1' (H243555-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97		
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02		
Total BTX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 11 0' (H243555-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 11 1' (H243555-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97		
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02		
Total BTEX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 15 0' (H243555-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/19/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 15 1' (H243555-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 16 0' (H243555-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97		
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43		
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14		
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02		
Total BTX	<0.300	0.300	06/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	189	94.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	180	90.2	200	4.30	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/18/2024
 Reported: 06/19/2024
 Project Name: SKOT 34 FED COM 1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 16 1' (H243555-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	2.13	106	2.00	1.97	
Toluene*	<0.050	0.050	06/18/2024	ND	2.28	114	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	2.30	115	2.00	1.14	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	7.07	118	6.00	1.02	
Total BTEX	<0.300	0.300	06/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/19/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	176	88.2	200	1.38	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	183	91.7	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex C Bill Log Project Manager: Chance Dixon Address: on file City: ↓ State: ↓ Zip: ↓ Phone #: ↓ Fax #: ↓ Project #: 245-03090 Project Owner: ↓ Project Name: Skat 34 Fed com 1 Project Location: ↓ Sampler Name: Wbnt1 undisch FOR LAB USE ONLY		BILL TO P.O. #: ↓ Company: Log Attn: on file Address: ↓ City: ↓ State: ↓ Zip: ↓ Phone #: ↓ Fax #: ↓		ANALYSIS REQUEST	
Lab I.D. 1B43555 Sample I.D.		MATRIX (G)RAB OR (C)OMP. ↓ # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ↓ ICE / COOL OTHER:	
DATE 8/24-01 0ft 8/24-01 1ft 8/24-02 0ft 8/24-02 1ft 8/24-03 0ft 8/24-03 1ft 8/24-04 0ft 8/24-04 1ft 8/24-05 0ft 8/24-05 1ft		DATE 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24 06/14/24		TIME 8:00 8:15 8:30 8:45 9:00 9:15 9:30 9:45 10:00 10:30	
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Relinquished By: Wbnt1 Date: 8/24 Time: 1418 Received By: [Signature] Date: 8/24 Time: 1418		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:		REMARKS: CC: Wbnt1 @ VERTEX, CA	
Relinquished By: [Signature] Date: 8/24 Time: 1418		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor: 0.07C		Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex CEGs		BILL TO		ANALYSIS REQUEST	
Project Manager: Chance Dixon		P.O. #:			
Address: on file		Company: ceg			
City: ↓		Attn: on file			
Phone #: ↓		Address: ↓			
Fax #: ↓		City: ↓			
Project #: 24E-03090		State: ↓			
Project Owner: Shof 34 Fed Com 1		Zip: ↓			
Project Location: ↓		Phone #: ↓			
Sampler Name: what was left		Fax #: ↓			
FOR LAB USE ONLY					
Lab I.D. H04355		Sample I.D.			
11		BH 24-10 0 FT		(G)RAB OR (C)OMP.	
12		BH 24-10 1 FT		# CONTAINERS	
13		BH 24-11 0 FT		GROUNDWATER	
14		BH 24-11 1 FT		WASTEWATER	
15		BH 24-15 0 FT		SOIL	
16		BH 24-15 1 FT		OIL	
17		BH 24-16 0 FT		SLUDGE	
18		BH 24-16 1 FT		OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
		DATE		TIME	
		06/14/24 13:45		TPH 8015 D	
		06/14/24 14:00		BTEX 8021	
		06/17/24 8:30		Chlorides	
		06/17/24 9:00			
		06/17/24 11:00			
		06/17/24 11:30			
		06/17/24 12:00			
		06/17/24 12:30			
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Relinquished By: WPCV		Date: 6-18-24		Received By: ADP	
Relinquished By: WPCV		Date: 6-18-24		Received By: ADP	
Time: 14:18		Time: 14:18		Time: 14:18	
Delivered By: (Circle One)		Observed Temp. °C 24.0		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 24.0		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
				Checked BY: ADP	
				Turnaround Time: 14D	
				Standard <input checked="" type="checkbox"/> Rush <input checked="" type="checkbox"/>	
				Bacteria (only) <input checked="" type="checkbox"/>	
				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
				Corrected Temp. °C	
				Correction Factor 44.0	
				REMARKS: cc: wpcv@cardinallabsnm.com	
				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
				All Results are emailed. Please provide Email address:	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 25, 2024

CHANCE DIXON

VERTEX RESOURCE GROUP

420 SOUTH MAIN, SUITE 202

TULSA, OK 74103

RE: SKOR 34 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 14:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NAReported:
25-Jun-24 16:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 24-07 0 FT	H243576-01	Soil	14-Jun-24 11:30	18-Jun-24 14:18
BH 24-07 .5 FT	H243576-02	Soil	14-Jun-24 11:45	18-Jun-24 14:18
BH 24-06 0 FT	H243576-03	Soil	14-Jun-24 11:00	18-Jun-24 14:18
BH 24-06 1 FT	H243576-04	Soil	14-Jun-24 11:15	18-Jun-24 14:18
BH 24-06 2 FT	H243576-05	Soil	14-Jun-24 11:30	18-Jun-24 14:18
BH 24-08 0 FT	H243576-06	Soil	14-Jun-24 12:15	18-Jun-24 14:18
BH 24-08 1 FT	H243576-07	Soil	14-Jun-24 12:30	18-Jun-24 14:18
BH 24-09 0 FT	H243576-08	Soil	14-Jun-24 13:00	18-Jun-24 14:18
BH 24-09 1 FT	H243576-09	Soil	14-Jun-24 13:30	18-Jun-24 14:18
BH 24-12 0 FT	H243576-10	Soil	17-Jun-24 09:15	18-Jun-24 14:18
BH 24-12 1 FT	H243576-11	Soil	17-Jun-24 09:30	18-Jun-24 14:18
BH 24-13 0 FT	H243576-12	Soil	17-Jun-24 09:45	18-Jun-24 14:18
BH 24-13 1 FT	H243576-13	Soil	17-Jun-24 10:00	18-Jun-24 14:18
BH 24-14 0 FT	H243576-14	Soil	17-Jun-24 10:15	18-Jun-24 14:18
BH 24-14 1 FT	H243576-15	Soil	17-Jun-24 10:30	18-Jun-24 14:18
BH 24-14 1.5 FT	H243576-16	Soil	17-Jun-24 10:45	18-Jun-24 14:18

06/25/24 - The wrong project name was logged in originally. This is the revised report and will replace the one sent on 06/24/24.

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-07 0 FT
H243576-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4062045	AC	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134 4062025 JH 21-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061919	MS	21-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061919	MS	21-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061919	MS	21-Jun-24	8015B	

Surrogate: 1-Chlorooctane 67.4 % 48.2-134 4061919 MS 21-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 64.9 % 49.1-148 4061919 MS 21-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-07 .5 FT**H243576-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4062045	AC	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.9 %	71.5-134		4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			84.0 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			99.6 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-06 0 FT
H243576-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	8000		16.0	mg/kg	4	4062045	AC	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.8 %		71.5-134	4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			88.7 %		48.2-134	4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			102 %		49.1-148	4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-06 1 FT**H243576-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	720		16.0	mg/kg	4	4062045	AC	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.3 %	71.5-134		4062025	JH	21-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
Surrogate: 1-Chlorooctane			93.0 %	48.2-134		4061920	MS	20-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4061920	MS	20-Jun-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-06 2 FT**H243576-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	368		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	93.1 %	71.5-134	4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane	88.2 %	48.2-134	4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane	99.5 %	49.1-148	4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-08 0 FT**H243576-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.7 %	71.5-134		4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			81.3 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			92.2 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-08 1 FT
H243576-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.6 %	71.5-134		4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			69.4 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			76.0 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-09 0 FT**H243576-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			93.0 %	71.5-134		4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			88.5 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			99.3 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-09 1 FT**H243576-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			92.7 %	71.5-134		4062025	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			85.3 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			96.3 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-12 0 FT**H243576-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7280		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	92.2 %	71.5-134	4062025	JH	21-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane	88.3 %	48.2-134	4061920	MS	20-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	101 %	49.1-148	4061920	MS	20-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-12 1 FT**H243576-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1180		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4062025	JH	21-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4062025	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	92.3 %	71.5-134	4062025	JH	21-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B

Surrogate: 1-Chlorooctane	90.9 %	48.2-134	4061920	MS	20-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	104 %	49.1-148	4061920	MS	20-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-13 0 FT**H243576-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6720		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4062026	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.8 %	71.5-134	4062026	JH	21-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B

Surrogate: 1-Chlorooctane	93.3 %	48.2-134	4061920	MS	20-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	107 %	49.1-148	4061920	MS	20-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-13 1 FT**H243576-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	560		16.0	mg/kg	4	4062045	CT	21-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4062026	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	71.5-134	4062026	JH	21-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B

Surrogate: 1-Chlorooctane	77.2 %	48.2-134	4061920	MS	20-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	86.5 %	49.1-148	4061920	MS	20-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-14 0 FT**H243576-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	8600		16.0	mg/kg	4	4062049	HM	20-Jun-24	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062026	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134 4062026 JH 21-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane 90.5 % 48.2-134 4061920 MS 20-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 103 % 49.1-148 4061920 MS 20-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-14 1 FT
H243576-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	4062049	HM	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062026	JH	21-Jun-24	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %	71.5-134		4062026	JH	21-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
<i>Surrogate: 1-Chlorooctane</i>			85.4 %	48.2-134		4061920	MS	20-Jun-24	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			95.1 %	49.1-148		4061920	MS	20-Jun-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

BH 24-14 1.5 FT
H243576-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	4062049	HM	20-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4062026	JH	21-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4062026	JH	21-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	71.5-134		4062026	JH	21-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061920	MS	20-Jun-24	8015B	

Surrogate: 1-Chlorooctane			83.6 %	48.2-134		4061920	MS	20-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			93.1 %	49.1-148		4061920	MS	20-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4062045 - 1:4 DI Water**Blank (4062045-BLK1)**

Prepared & Analyzed: 20-Jun-24

Chloride	ND	16.0	mg/kg							
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LCS (4062045-BS1)

Prepared & Analyzed: 20-Jun-24

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (4062045-BSD1)

Prepared & Analyzed: 20-Jun-24

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Batch 4062049 - 1:4 DI Water**Blank (4062049-BLK1)**

Prepared & Analyzed: 20-Jun-24

Chloride	ND	16.0	mg/kg							
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LCS (4062049-BS1)

Prepared & Analyzed: 20-Jun-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4062049-BSD1)

Prepared & Analyzed: 20-Jun-24

Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
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Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4062025 - Volatiles**Blank (4062025-BLK1)**

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		92.6	71.5-134			

LCS (4062025-BS1)

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	1.96	0.050	mg/kg	2.00		98.1	82.8-130			
Toluene	1.93	0.050	mg/kg	2.00		96.5	86-128			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.2	89-129			
o-Xylene	1.91	0.050	mg/kg	2.00		95.3	86.1-125			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.5	71.5-134			

LCS Dup (4062025-BSD1)

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	3.97	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128	2.31	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128	0.0735	16	
m,p-Xylene	3.92	0.100	mg/kg	4.00		97.9	89-129	0.273	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.6	86.1-125	0.359	16.7	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	88.2-128	0.0658	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.0	71.5-134			

Batch 4062026 - Volatiles**Blank (4062026-BLK1)**

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4062026 - Volatiles**Blank (4062026-BLK1)**

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		97.7	71.5-134			

LCS (4062026-BS1)

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	1.98	0.050	mg/kg	2.00		98.9	82.8-130			
Toluene	1.97	0.050	mg/kg	2.00		98.5	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.22	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.06	0.050	mg/kg	2.00		103	86.1-125			
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	71.5-134			

LCS Dup (4062026-BS1)

Prepared: 20-Jun-24 Analyzed: 21-Jun-24

Benzene	1.98	0.050	mg/kg	2.00		98.9	82.8-130	0.0423	15.8	
Toluene	1.94	0.050	mg/kg	2.00		96.9	86-128	1.62	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	1.55	16	
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	1.88	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125	2.08	16.7	
Total Xylenes	6.16	0.150	mg/kg	6.00		103	88.2-128	1.95	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.9	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061919 - General Prep - Organics**Blank (4061919-BLK1)**

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	48.2-134		
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	49.1-148		

LCS (4061919-BS1)

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	179	10.0	mg/kg	200		89.5	66.4-123		
DRO >C10-C28	173	10.0	mg/kg	200		86.6	66.5-118		
Total TPH C6-C28	352	10.0	mg/kg	400		88.1	77.6-123		
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.1	48.2-134		
Surrogate: 1-Chlorooctadecane	41.5		mg/kg	50.0		83.0	49.1-148		

LCS Dup (4061919-BS1)

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123	5.14	17.7
DRO >C10-C28	192	10.0	mg/kg	200		95.8	66.5-118	10.1	21
Total TPH C6-C28	380	10.0	mg/kg	400		95.0	77.6-123	7.59	18.5
Surrogate: 1-Chlorooctane	44.3		mg/kg	50.0		88.6	48.2-134		
Surrogate: 1-Chlorooctadecane	41.1		mg/kg	50.0		82.2	49.1-148		

Batch 4061920 - General Prep - Organics**Blank (4061920-BLK1)**

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0		111	48.2-134		
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA OK, 74103

Project: SKOR 34 FED COM #1
Project Number: 24E - 03090
Project Manager: CHANCE DIXON
Fax To: NA

Reported:
25-Jun-24 16:58

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061920 - General Prep - Organics**LCS (4061920-BS1)**

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	188	10.0	mg/kg	200		93.8	66.4-123		
DRO >C10-C28	195	10.0	mg/kg	200		97.6	66.5-118		
Total TPH C6-C28	383	10.0	mg/kg	400		95.7	77.6-123		
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	48.2-134		
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	49.1-148		

LCS Dup (4061920-BS1)

Prepared: 19-Jun-24 Analyzed: 20-Jun-24

GRO C6-C10	197	10.0	mg/kg	200		98.4	66.4-123	4.85	17.7
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118	2.54	21
Total TPH C6-C28	397	10.0	mg/kg	400		99.3	77.6-123	3.68	18.5
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.1	48.2-134		
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0		106	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex C&G				BILL TO				ANALYSIS REQUEST																							
Project Manager: Chance Dixon				P.O. #:																											
Address: on file				Company: Eos																											
City: State: Zip:				Attn: on file																											
Phone #: Fax #:				Address:																											
Project #: 24E-03090 Project Owner:				City:																											
Project Name: Skat 34 Fed COM 1				State: Zip:																											
Project Location:				Phone #: Fax #:																											
Sampler Name: Whatt wadleigh				Fax #:																											
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL													OTHER :	DATE	TIME					
H24355N	BH 24-07 0 ft					✓					✓		06/19/21	11:30	TPH 801SD	BTEX 8021	Chlorides														
1	BH 24-07 0.5 FT													11:45																	
2	BH 24-06 0 ft													11:00																	
3	BH 24-06 1 FT													11:15																	
4	BH 24-06 2 FT													11:30																	
5	BH 24-08 0 FT													12:15																	
6	BH 24-08 1 FT													12:30																	
7	BH 24-08 9 0 FT													13:00																	
8	BH 24-09 1 FT													13:30																	
9																															
10																															
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																															
Relinquished By: Watt W				Date: 6-18-21 Time: 1418				Received By: Adams				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:				All Results are emailed. Please provide Email address:															
Relinquished By:				Date:				Received By:				REMARKS: cc: wadleigh@vertex.ca																			
				Time:																											
Delivered By: (Circle One)				Observed Temp. °C: 5.4°C Corrected Temp. °C:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) AP				Turnaround Time: AP 6-18-21 Thermometer ID #113 Correction Factor 0.5°C				Standard Rush <input checked="" type="checkbox"/>				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Observed Temp. °C Corrected Temp. °C			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 26, 2024

CHANCE DIXON

VERTEX RESOURCE GROUP

420 SOUTH MAIN, SUITE 202

TULSA, OK 74103

RE: SKOR 34 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 01 0.0' (H243767-01)

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50	
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43	
Total BTEX	<0.300	0.300	06/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	06/26/2024	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 01 1.0' (H243767-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 01 2.0' (H243767-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 01 3.0' (H243767-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 02 0.0' (H243767-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 02 1.0' (H243767-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 02 2.0' (H243767-07)

BTEx 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

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	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 02 3.0' (H243767-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 02 4.0' (H243767-09)

BTEx 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 03 0.0' (H243767-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 03 1.0' (H243767-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 03 2.0' (H243767-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 04 0.0' (H243767-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 04 1.0' (H243767-14)

BTEx 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 04 2.0' (H243767-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 04 3.0' (H243767-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 05 0.0' (H243767-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9360	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 05 1.0' (H243767-18)

BTEx 8021B		mg / kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 05 2.0' (H243767-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE GROUP
 CHANCE DIXON
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received: 06/25/2024
 Reported: 06/26/2024
 Project Name: SKOR 34 FED COM #1
 Project Number: 24E - 03090
 Project Location: EOG

Sampling Date: 06/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TP 24 - 05 3.0' (H243767-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.77	88.6	2.00	4.50		
Toluene*	<0.050	0.050	06/25/2024	ND	1.76	87.9	2.00	4.02		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.81	90.4	2.00	3.25		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.29	88.1	6.00	3.43		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	211	106	200	0.230	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	212	106	200	0.0567	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex (Bill EOG)				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Chance Dixon				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em;"> <div>TPH 80150</div> <div>BTEX 8021</div> <div>Chlorides</div> </div>																																			
Address: On File				Company: EOG																																							
City: ↓ State: Zip:				Attn: On File																																							
Phone #: ↓ Fax #:				Address:																																							
Project #: 24E-03090 Project Owner:				City:																																							
Project Name: SKor 34 Fed Com 1				State: Zip:																																							
Project Location:				Phone #:																																							
Sampler Name: Andrew Ludvik				Fax #:																																							
FOR LAB USE ONLY																																											
Lab I.D.		Sample I.D.		(GRAB OR C/COMP.)		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME															
H043767																																											
1		TP24-01		0.0'																																							
2		TP24-01		1.0'																																							
3		TP24-01		2.0'																																							
4		TP24-01		3.0'																																							
5		TP24-02		0.0'																																							
6		TP24-02		1.0'																																							
7		TP24-02		2.0'																																							
8		TP24-02		3.0'																																							
9		TP24-02		4.0'																																							
10		TP24-03		0.0'																																							

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Relinquished By: [Signature]		Date: 4-25-24		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1347				All Results are emailed. Please provide Email address:			
Relinquished By:		Date:		Received By:		REMARKS: cc: cdixon@vertexresource.com ALudvik@vertexresource.com			
		Time:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C 07.6		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]		Turnaround Time: Standard <input type="checkbox"/> Bacteria (only) Sample Condition Rush <input checked="" type="checkbox"/> Cool Intact Observed Temp. °C	
								Thermometer ID: #112 Correction Factor: -0.8°C 4/25/24 24hrs	
								<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Attachment 5

Closure Criteria Determination			
Site Name: Skor 34 Federal Com 1			
Spill Coordinates: 32.4306944, -104.174445		X: 577612.52	Y: 3588476.37
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	30	feet
	Distance between release and nearest DTGW reference	6,797	feet
		1.28	miles
	Date of nearest DTGW reference measurement	December 27, 1985	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3,783	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	13,358	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	10,544	feet
5	i) 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, or	6,111	feet
	ii) Within 1000 feet of any fresh water well or spring	6,111	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1,931	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	60,507	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	6,007	feet
10	Within a 100-year Floodplain	> 500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	4,315	feet
11	Soil Type	Gravelly Loam	
12	Ecological Classification	Shallow	
13	Geology	Alluvium	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Skor 34 Federal Com #1 0.5-Mile Radius



6/27/2024, 1:57:48 PM

GIS WATERS PODs

- Active
- Pending
- Plugged

OSE District Boundary

Water Right Regulations

- Artesian Planning Area
- New Mexico State Trust Lands
- Subsurface Estate
- Both Estates

Conveyances

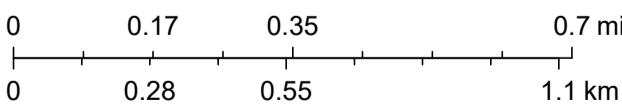
- Canal

Ditch

NHD Flowlines

- Artificial Path
- Canal Ditch
- Stream River

1:18,056




Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



New Mexico Office of the State Engineer

Point of Diversion Summary

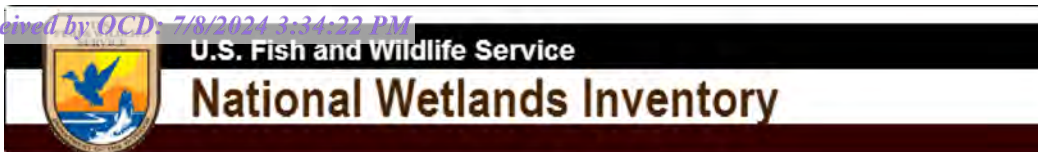
		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)				
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	
C	02127	4	4	3	02	22S	27E	578846	3586802* 	
Driller License:	421	Driller Company:				GLENN'S WATER WELL SERVICE				
Driller Name:	CORKY GLENN									
Drill Start Date:	12/19/1985	Drill Finish Date:				12/19/1985	Plug Date:			
Log File Date:	12/27/1985	PCW Rcv Date:				Source:			Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			75 GPM	
Casing Size:	6.63	Depth Well:				160 feet	Depth Water:			30 feet
Water Bearing Stratifications:					Top	Bottom	Description			
					80	119	Limestone/Dolomite/Chalk			
Casing Perforations:					Top	Bottom				
					70	160				

*UTM location was derived from PLSS - see Help

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

6/27/24 1:54 PM

POINT OF DIVERSION SUMMARY



Skor 34 Federal Com #1 Watercourse 3,783



June 11, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Skor 34 Federal Com #1 Lake 13,358ft



June 11, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

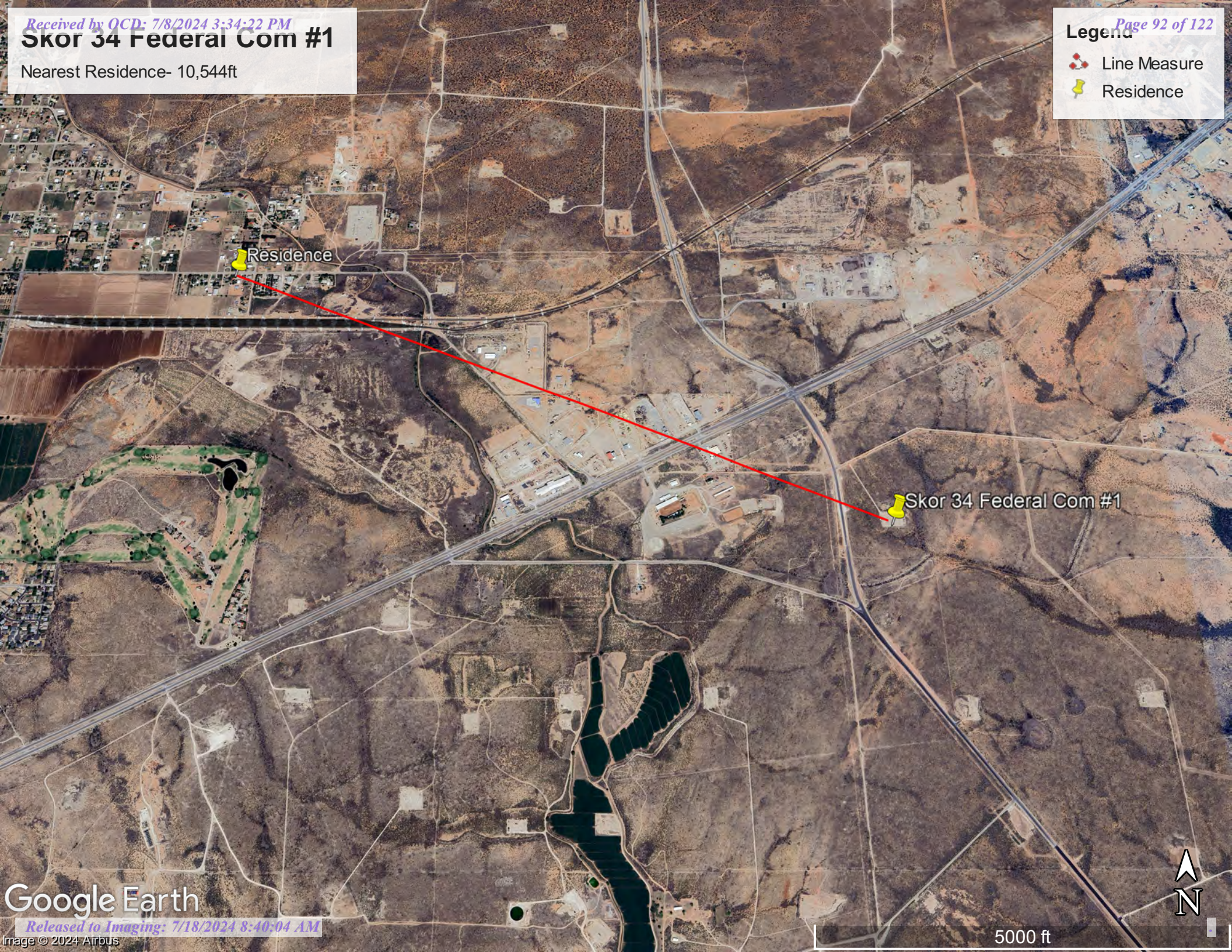
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Nearest Residence- 10,544ft

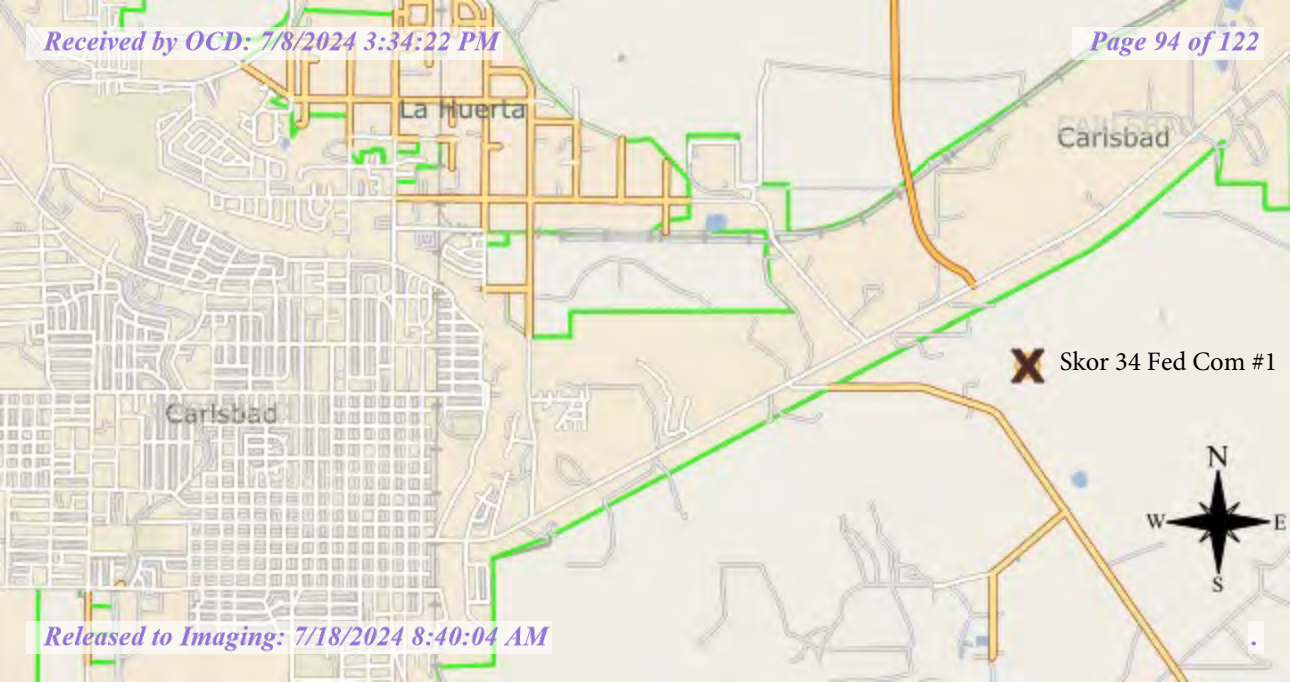
Page 92 of 122

Legend

- Line Measure
- Residence



New Mexico Office of the State Engineer														
Active & Inactive Points of Diversion														
(with Ownership Information)														
(R=POD has been replaced and no longer serves this file, C=the file is closed)														
(quarters are 1=NW 2=NE 3=SW 4=SE)														
(quarters are smallest to largest)														
(NAD83 UTM in me														
(acre ft per annum)														
WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q	q	q
C 04841	C	SAN		1	TSW PROPERTIES, LLC	ED	C 04841 POD1	215A0				6416	4	Sec
C 00985	C	DOL		3	W W SIMPSON	ED	C 00985					1	1	02
C 04346	C	DOM		1	STAN WATSON	ED	C 04346 POD1	2230D				1	1	3
C 00479	C	DOM		0	FRANCIS G. TRACY	ED	C 00479					3	03	22S
C 01250	C	DOL		3	JIM A. STROUD	ED	C 01250				Artesian	3	3	27
C 00589	CUB	IRR		390	JOSEPHINE T. EDDY, TRUST	ED	C 00589				Shallow	2	4	04
C 02838	C	PRO		0	DEVON ENERGY PRODUCTION	ED	C 00589				Shallow	2	4	04
C 02921	C	PRO		0	MARBOB ENERGY	ED	C 02921					2	4	04
C 00297	C	DOM		3	BOYD SCOTT	CH	C 00297				Shallow	1	1	2
C 02127	C	PRO		3	SAMMY D. CLARK	ED	C 02127				Shallow	4	4	02
C 02947	C	PRO		0	MEWBOURNE OIL COMPANY	ED	C 02947					4	4	02
C 03109	C	PRO		0	DEVON OPERATING	ED	C 02127				Shallow	4	4	02
C 03242	C	PRO		0	MEWBOURNE OIL COMPANY	ED	C 02127				Shallow	4	4	02
C 03256	C	PRO		0	DUGAN INC	ED	C 02127				Shallow	4	4	02
C 00105	CUB	IRR		0	FRANCIS G. TRACY	ED	C 00105				Shallow	4	4	04
C 00468	C	DOM		3	O. V. TOOTHMAN	ED	C 00468				Shallow	3	4	26
C 04340	CUB	MON		0	SANDS DEVELOPMENT LLC	ED	C 04340 POD3	NA				4	4	26
						ED	C 04340 POD4					3	4	26
						ED	C 04340 POD2					4	4	26
						ED	C 04340 POD5					4	4	26
C 00973	C	DOM		3	E J GARNER	ED	C 00973				Artesian	4	26	21S
C 01835	C	DOL		3	CHAMPLAIN PETROLEUM COMPANY	ED	C 01835				Shallow	1	4	26
C 00076 EFF	CUB	NRT		1413.96	CITY OF CARLSBAD	ED	C 00076 EFF				Artesian	3	4	1
C 04340	CUB	MON		0	SANDS DEVELOPMENT LLC	ED	C 04340 POD1	NA				2	4	26
C 00047 A	CUB	IRR		60	CITY OF CARLSBAD	ED	C 00047 EXPL				Artesian	3	2	26
C 01598	C	DOM		3	JESS W LAMAN	ED	C 01598					3	4	3
C 02968	C	DOL		0	SUSAN MOORE	ED	C 02968					2	1	1
C 02170	C	DOM		3	JESSE W. LAMAN SR.	ED	C 02170				Shallow	1	4	3
C 04457	CUB	MON		0	BNSF RAILWAY CO	ED	C 04457 POD4	NA			Shallow	1	3	1
C 00188	C	DOM		0	VICTOR JIMENEZ	ED	C 00188					3	3	28
C 00047 A	CUB	IRR		60	CITY OF CARLSBAD	ED	C 00047 A				Shallow	2	3	2
C 01349	C	DOL		3	BUDDY GARNER	ED	C 01349				Artesian	2	3	2
C 03939	CUB	MON		0	ENTERPRISE FIELD SERVICES LLC	ED	C 03939 POD3				Shallow	3	1	3
						ED	C 03939 POD2				Shallow	3	1	3
						ED	C 03939 POD5				Shallow	3	1	3
						ED	C 03939 POD4				Shallow	4	1	3
C 00849	C	DOM		0	ALBERT HEMLER	ED	C 00849					3	10	22S
C 01318	C	DOM		3	JAMES W LAMAN SR	ED	C 01318					4	1	3
C 00551	C	DOL		3	ALMA T. HARPER	ED	C 00551				Shallow	4	4	2
C 03939	CUB	MON		0	ENTERPRISE FIELD SERVICES LLC	ED	C 03939 POD1				Shallow	1	1	3
C 00566	C	DOM		3	ROQUE ELIZONDO	ED	C 00566				Artesian	2	2	2
C 00632	CUB	COM		15	CITY OF CARLSBAD	ED	C 00632				Artesian	2	2	2
C 02193	C	DOM		3	BILLY GEORGE WEST	ED	C 02193				Shallow	4	32	21S
C 01012	C	DOM		0	SALLIE FAYE BERKSTRESSER	ED	C 01012					3	25	21S
C 02554	C	MUL		3	BRAD PARMENTER	ED	C 02554	20CCB				3	1	3
C 00804	C	DOM		0	JESSE E. BUCKNER	ED	C 00804					4	2	09



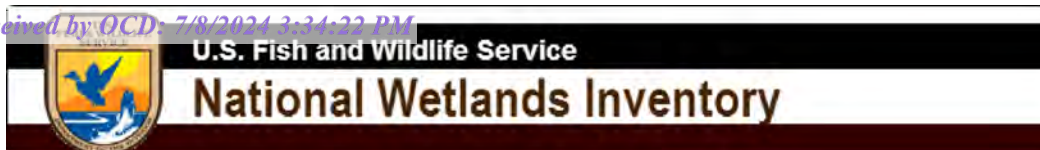
Carlsbad

La Huerta

Carlsbad

X Skor 34 Fed Com #1





Skor 34 Federal Com #1 Wetland 1,931ft



June 11, 2024

Wetlands

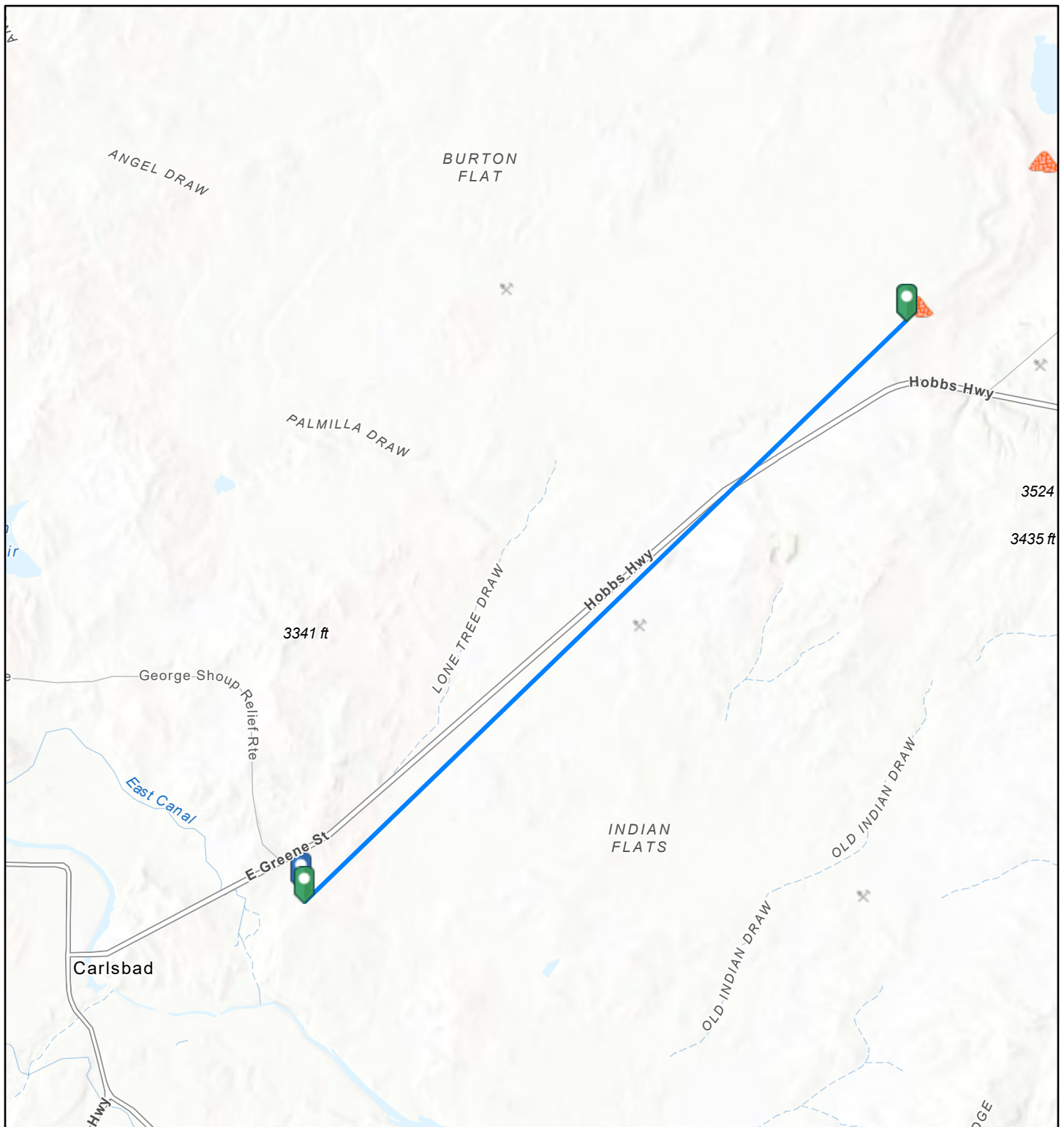
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Skor 34 Federal Com #1 Mine 60,507ft

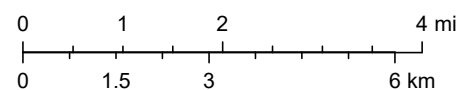


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Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash



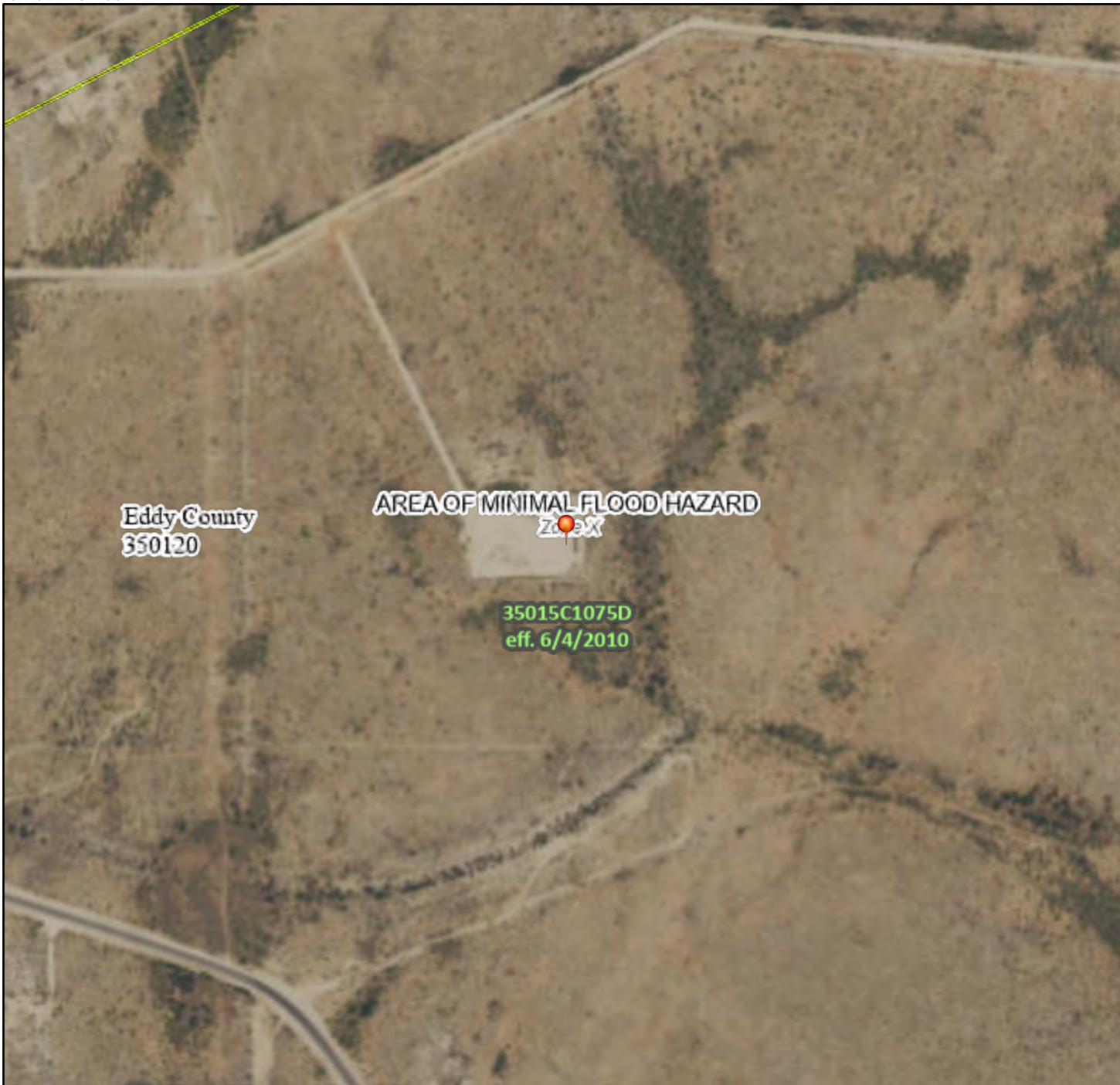
Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

EMNRD MMD GIS Coordinator

National Flood Hazard Layer FIRMette



104°10'47"W 32°26'6"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°10'9"W 32°25'36"N

Released to Imaging: 7/18/2024 8:40:04 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards




The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/11/2024 at 7:02 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Skor 34 Federal Com #1

Distance to FEMA Flood Zone A- 4,315ft

Legend

-  Flood Zone A
-  Line Measure
-  Skor 34 Federal Com #1

Skor 34 Federal Com #1

Google Earth

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Image © 2024 Airbus

1 mi





United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Eddy Area, New Mexico



June 11, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map


The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map


Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot


 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UG	Upton gravelly loam, 0 to 9 percent slopes	4.0	100.0%
Totals for Area of Interest		4.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Eddy Area, New Mexico**UG—Upton gravelly loam, 0 to 9 percent slopes****Map Unit Setting**

National map unit symbol: 1w64
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent
Minor components: 4 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton**Setting**

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Custom Soil Resource Report

Minor Components

Reagan

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

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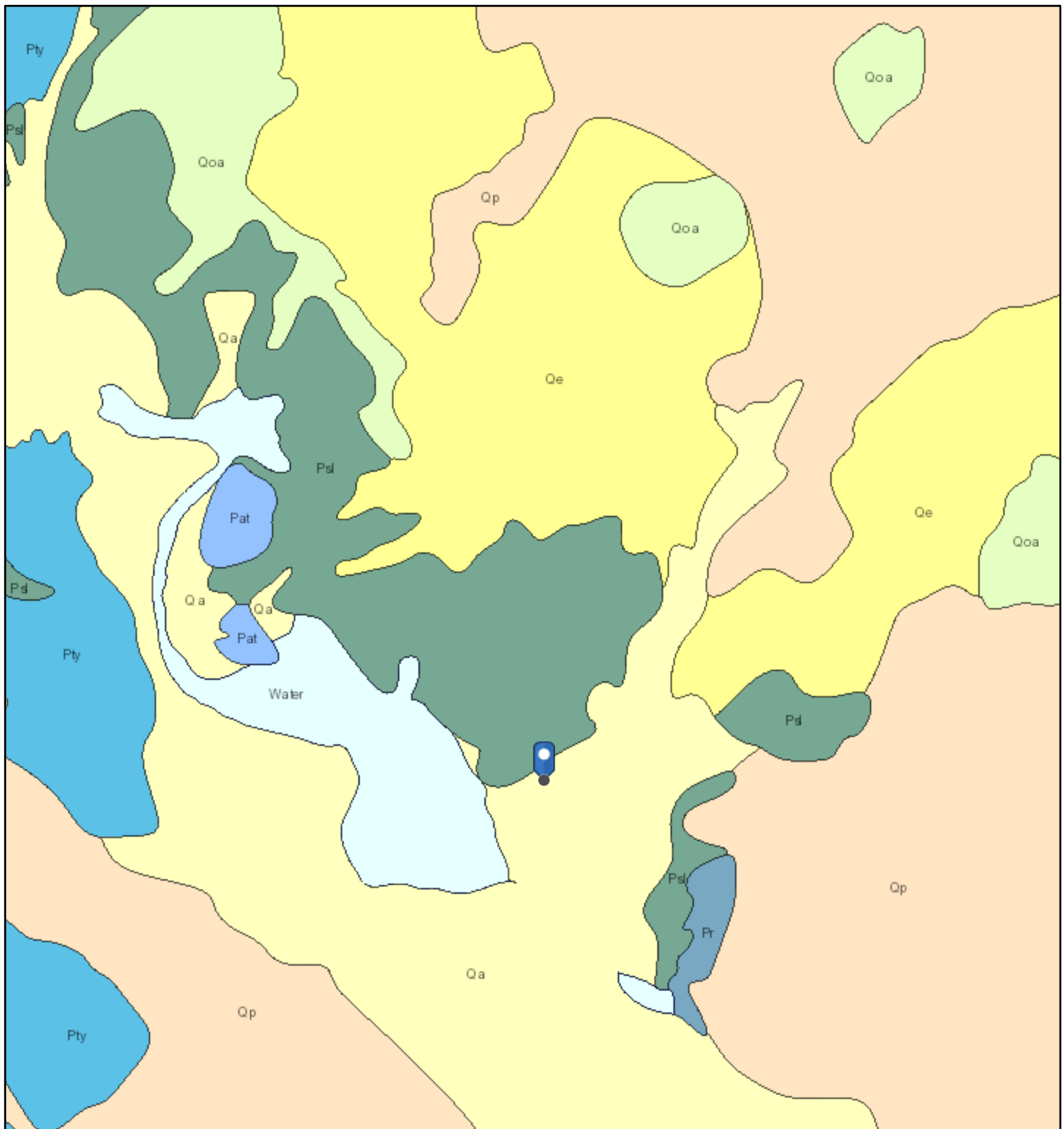
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Skor 34 Federal Com #1 Geology

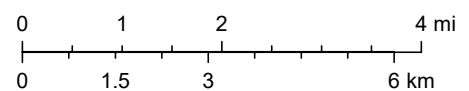


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Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

ArcGIS Web AppBuilder

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

QUESTIONS

Action 361841

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:
	7377
	Action Number:
	361841
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410231723
Incident Name	NAPP2410231723 SKOR 34 FED COM #1 @ 30-015-33925
Incident Type	Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-33925] SKOR 34 FEDERAL COM #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Skor 34 Fed Com #1
Date Release Discovered	04/10/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Truck Unknown Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	An unauthorized 3rd party release of an unknown quantity of an unknown substance believed to be produced water.

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QUESTIONS, Page 2

Action 361841

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:
	7377
	Action Number:
	361841
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 07/08/2024
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QUESTIONS, Page 3

Action 361841

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:
	7377
	Action Number: 361841
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	10400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	26
GRO+DRO	(EPA SW-846 Method 8015M)	26
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/06/2024
On what date will (or did) the final sampling or liner inspection occur	10/06/2024
On what date will (or was) the remediation complete(d)	10/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	12200
What is the estimated volume (in cubic yards) that will be reclaimed	1500
What is the estimated surface area (in square feet) that will be remediated	12200
What is the estimated volume (in cubic yards) that will be remediated	1500

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 361841

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:	7377
	Action Number:	361841
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: James Kennedy Title: Safety and Environmental Doecialist Email: James_kennedy@eogresources.com Date: 07/08/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 361841

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 361841
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 361841

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 361841
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	353044
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/18/2024
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	12800

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 361841

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 361841
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Due to the shallow groundwater and sensitive nature of the release location, the site will need to be remediated to the strictest closure criteria standards. Please make sure all sample locations are fully delineated/excavated, and floor/sidewall samples meet OCD Table 1 standards for <50' depth to groundwater. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. A closure report will need to be completed and uploaded within 90 days.	7/18/2024