



Incident Number: nAPP2307356662

Release Assessment and Remediation, and Deferral Request

Dayton Water Recycle

Section 27, Township 18 South, Range 26 East

County: Eddy

Vertex File Number: 23E-02248

Prepared for:

Silverback Exploration

Prepared by:

Vertex Resource Services Inc.

Date:

July 2024

Silverback Exploration
Dayton Water Recycle

Release Assessment and Remediation, and Deferral Request
July 2024

Release Assessment and Remediation, and Deferral Request
Dayton Water Recycle
Section 27, Township 18 South, Range 26 East
County: Eddy

Prepared for:

Silverback Exploration

108 South 4th Street

Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 – Artesia

811 South 1st Street

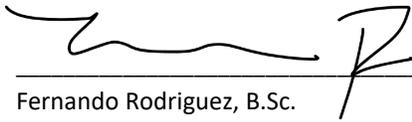
Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

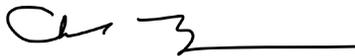
Carlsbad, New Mexico 88220



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INTERMEDIATE BIOLOGIST, REPORTING

July 23, 2024

Date



Chad Hensley, B.Sc. G.C.N.R.
SENIOR PROJECT MANAGER, REPORT REVIEW

July 23, 2024

Date

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1.0 Introduction

Silverback Exploration (Silverback) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a recycled water release that occurred on February 21, 2023, at the Dayton Water Recycle (hereafter referred to as the "site"). Silverback submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on March 14, 2023. Incident ID number nAPP2307356662 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on February 21, 2023, due to third party personnel removing a meter from the lay-flat line during pigging operations, which caused the end of the line being pigged open and resulting in release. Immediate notice was given prior to the submission of the notification of release (NOR) and the incident involved the release of approximately 2,312 barrels of recycled water into the surrounding pasture and areas of the pipeline right-of-way. No standing fluids were recovered during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 7.3 miles south of Artesia, New Mexico (Google Inc., 2024). The legal location for the site is Section 27, Township 18 South and Range 26 East in Eddy County, New Mexico. The release area is located on private property owned by Silverback Operating. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area surrounding the water recycling facility and lease road.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Qp – Piedmont alluvial deposits (Holocene to lower Pleistocene), and is characterized as loamy. The predominant soil texture on the site is loam and very fine sandy loam. Soils can be classified as well-drained with a moderately slow runoff class. The karst geology at the site is characterized as low potential (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with upland landforms, mainly on hill slopes, ridges, plains, terraces, and some fan remnants with elevations ranging between 2,842 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 and 14 inches. Using information from the United States Department of Agriculture, the historic plant community was determined to be a black grama dominated grassland sparsely dotted with shrubs.

Fire suppression, and the loss of grass cover due to overgrazing and drought may facilitate the increase and encroachment of shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2024).

4.0 Closure Criteria Determination

The nearest active well to the site is a New Mexico Office of the State Engineer (NMOSE) groundwater well (RA 11890 POD 1) located approximately 0.21 miles south of the site (New Mexico Office of the State Engineer, 2024b). Data from 2013 show the NMOSE borehole recorded a depth to groundwater of 85 feet below ground surface (bgs). Information pertaining to the depth to ground water determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Rio Penasco located approximately 1.36 miles north of the site (United States Fish and Wildlife Service, 2024).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Table 1. Closure Criteria Determination			
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	85	feet
	Distance between release and nearest DTGW reference	1,138	feet
		0.22	miles
	Date of nearest DTGW reference measurement	January 20, 2013	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	7,205	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	10,662	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,888	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	1,138	feet
	ii) Within 1000 feet of any fresh water well or spring	1,888	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	26,752	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	20,476	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	18,171	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	7,266	feet
11	Soil Type	RA: Reagan loam	
12	Ecological Classification	R070BC007NM - Loamy	
13	Geology	Qp- Piedmont alluvial deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW 51-100 feet (19.15.29.12)	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

bgs – below ground surface

DTGW – depth to groundwater

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

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on June 30, 2023, which identified the area of the release specified in the initial C-141 Report, estimated the approximate volume of the release and white lined the area required for the One Call request. The impacted area was determined to be approximately 960 feet long and 708 feet wide; the total affected area was 62,993 square feet. Site characterization activities were conducted by Vertex between May 5 and June 30, 2023. A total of 82 sampling boreholes were established to obtain both horizontal and vertical delineation. From these boreholes, a total of 196 samples were collected at various depths and submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The Daily Field Reports (DFRs) and site photographs associated with the site inspection are included in Appendix C. Characterization laboratory results are presented in Table 3.

5.1 NMOCD Response to Deferral Request

On January 4, 2024, the C-141 application for a remediation work plan and deferral request was denied. Silverback was emailed details stating:

“Before we can approve a deferral, the spill must be fully delineated. Contamination must not pose an imminent risk to human health, the environment, or groundwater. Please remove as much of the contaminated soil with alternative methods. The only remediation that should remain are the sample points that are being requested for deferral (inside facility fence/boundary). Only sample points that could cause a major facility deconstruction will be deferred. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can’t be removed. The variance request for 400ft² confirmation floor samples is approved. Collect confirmation sidewall samples representing no more than 200ft². All samples must be analyzed for all constituents listed in Table I of 19.15.29.12

NMAC. All sidewall samples should be taken from the sidewall of the excavation. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule.”

On January 8, 2024, Vertex and Silverback responded to the NMOCD to further discuss why impacts on the deferral area cannot be removed and how to proceed with the other remediated areas.

5.1.1 Remediation Work Plan and Deferral Request Approval

On May 18, 2024, the work plan was approved by the NMOCD. Remediation efforts began on June 21, 2023, and were finalized on June 18, 2024. During this period, Vertex supervised the excavation of impacted soils. Field screening was completed on a total of 236 sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate titrations (chlorides). Field screening results were used to identify areas requiring further remediation. Impacted soil was removed to a depth of 1 to 4 ft bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. The final DFR with photographs of the remediated site prior to backfill is included in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD two business days prior to conducting final sampling pursuant to 19.15.29.12.D(1)(a). Sampling notification emails are included in Appendix D. Confirmatory base floor samples were collected from the surfaces of the excavation in 400 square foot increments and confirmation side wall samples were collected per 200 square feet. A total of 193 confirmation samples (155 base samples and 38 wall samples) were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory and Cardinal Laboratories under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Due to the shallow depth of the excavation, soil from any sidewalls was incorporated into the floor samples. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were handled and analyzed as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figures 2a, 2b, and 2c. Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Deferral Request

Vertex recommends no additional remedial actions at this time to address this release until the recycling facility is decommissioned and removed. Laboratory analyses of confirmation samples collected outside the requested deferral area showed final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is between 51 to 100 feet, as presented in Table 2. There are no anticipated risks to human, ecological, or hydrological receptors at this site. The excavation outside the deferral area was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site’s existing grade to prevent water ponding and erosion. The reclamation requirements of 19.15.29.13 NMAC were completed after backfilling activities. The DFR and site photographs prior to backfill procedures are included in Appendix C.

On behalf of Silverback, Vertex requests deferral of the portions of the release that are designated in proximity to the pond and are deemed unsafe for excavation of contaminated materials. The release and deferral request areas have been delineated with the understanding that should the deferral request be accepted, restoration of this portion of the release will be deferred until such time as all oil and gas activities are terminated, and the site is reclaimed following remediation activities as per NMAC 19.15.29.13. Those areas are identified on Figure 4. Facility deconstruction will be required to complete remediation of the release, which poses a risk to the structural integrity of the pond.

Vertex respectfully requests the deferral to be granted on the grounds that the contamination is delineated and does not pose an imminent risk to human health, the environment, or groundwater. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

Should you have any questions or concerns, please do not hesitate to contact Michael Moffitt at 575.988.2681 or mmoffitt@vertex.ca.

7.0 Land Reclamation

The land reclamation for the site (surface reclamation) is detailed below. This section outlines the principles that will be used during the surface reclamation phase for the site. A site schematic of reclamation areas is presented on Figure 3. The DFR and site photographs obtained during reclamation procedures are included in Appendix C.

7.1 End Land Use and Capability

The land use surrounding the site is defined as natural; therefore, the end land use would be natural land. A natural area is described as: away from human habitation and activities, where the primary concern is the protection of ecological receptors. The site was reclaimed so that the capability of the land match that of the areas immediately surrounding the site, which consists of rangeland.

7.2 Restoration of Drainage

Currently, the site consists of a mostly-level, pad, lease road, and pipeline right-of-way. The site was contoured to match surrounding topography as near as practicable to restore natural drainage, which was generally in a west-to-east direction. Any compaction on-site was addressed by de-compaction to an approximate depth of 6 inches. All de-compaction activities were conducted post-backfill procedures and pre-seeding to maximize seed to soil contact and promote vegetation establishment.

7.3 Soil Replacement

Surface reclamation included determination of background topsoil depth as site conditions are required to meet pre-existing conditions.

7.3.1 Release Area

Reclamation of areas outside the facility was completed after backfilling operations. A clean, locally sourced topsoil was imported to the site to backfill the excavation. On June 28, 2024, three representative 5-point composite samples were

collected from the backfill material that was used for the reclamation of the top 4 feet of the excavation. Analytical results for these samples are presented in Table 4, and the laboratory data report is included in Appendix E.

7.3.2 Access Road/Pad

The access road and portions of the pad were reconstructed with a hard-packed caliche material to an approximate height of 8 inches. A scaled site map of the reconstructed lease road and pad is presented on Figure 3.

7.4 Erosion Control

There are currently no erosion concerns on-site, and the use of erosion control devices at this location is not anticipated; however, erosion control devices will be installed at the discretion of the on-site environmental inspector.

7.5 Re-vegetation

7.5.1 Seeding

A seed mix suitable for the site and surrounding area will be used and applied at appropriate rates. Seed establishment and re-vegetation will be monitored, bi-annually, to determine success. A New Mexico State Land Office loamy seed mix will be obtained for the site and administered at an application rate of 18 PLS/acre. Methods of seeding will be completed using a tractor with rotating discs and broadcasted on all areas under reclamation.

7.5.2 Fertilization

Fertilizer will be incorporated into the contoured topsoil and/or upper subsoil to improve soil nutrient content, if deemed necessary or as per landowner recommendations.

7.5.3 Reclamation Standards

Reclamation success will meet requirements outlined in Chapter 6 of The Gold Book (United States Department of the Interior and U.S. Department of Agriculture, 2007) which states that “a self-sustaining, vigorous, diverse, native (or otherwise approved) plant community is established on site, with a density sufficient to control erosion and non-native plant invasion and to re-establish wildlife habitat or forage production”.

7.6 Weed Management

The site will be monitored for vegetative growth throughout all phases of the project. Should noxious vegetation be identified on-site, a control program will be implemented and managed as required.

Weed management programs will identify weed species of concern and utilize effective control methods. These methods include but are not limited to: chemical (herbicide) control, mechanical (mowing) control or biological control as approved by governing regulatory agencies.

8.0 Monitoring Program

Bi-annual inspections will be conducted, during the growing season, to monitor site progression and assess the need for additional best management practices (BMPs). Inspections will include photographs of the site and BMPs implemented.

8.1 Final Assessment and Closure Request

During the bi-annual inspections, if site conditions are at or nearing background conditions, a final re-vegetation report will be completed. The report will provide a summary of the vegetation establishment, a summary and interpretation of monitoring data collected, interpretation of historical monitoring data, and suggested corrective actions if applicable.

9.0 References

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Silverback Exploration
Dayton Water Recycle

Release Assessment and Remediation, and Deferral Request
July 2024

United States Geological Survey. (2024). *National Water Information System: Web Interface*. Retrieved from <https://waterdata.usgs.gov/nwis>

10.0 Limitations

This report has been prepared for the sole benefit of Silverback Exploration. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Silverback Exploration. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



- ◆ Borehole (Prefixed by "BH23-")
- Point of Release
- Testpit (Prefixed by "TP23-")
- ✕ Fence
- Pipeline (Underground)
- ▭ Approximate Release Area (~55,825 sq.ft.)
- ▭ Proposed Excavation to 4' bgs (~716 sq.ft.)
- ▭ Proposed Excavation to 6" bgs (~686 sq.ft.)
- ▭ Facility Deferral Area (~7,168 sq.ft.)



0 25 50 100 ft.
 NAD 1983 UTM Zone 13N
 Date: Jul 17/23

Map Center:
 Lat: 32.722727,
 Long: -104.367986



Characterization Sampling Site Schematic Dayton Recycle Release

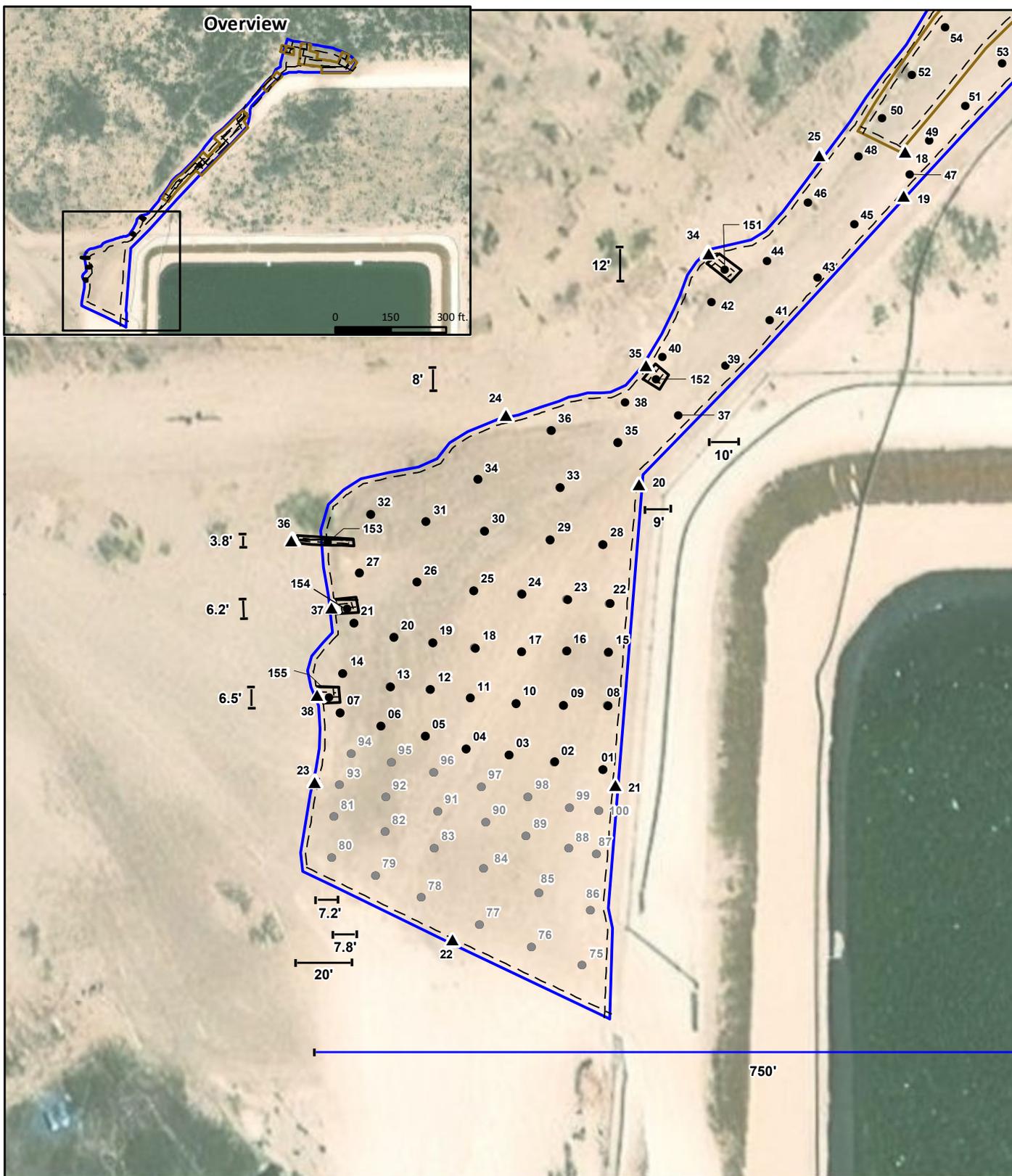
FIGURE:
1



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 Bing. Site features from GPS, Vertex Professional Services Ltd., 2023.

Document Path: G:\1-Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 1 Characterization Schematic Dayton Recycle (23E-02248).mxd



- Base Sample (Prefixed by "BS23-")
- Base Sample (Prefixed by "BS24-")
- ▲ Wall Sample (Prefixed by "WS24-")
- Excavation to 1' bgs (~58,492 sq.ft.)
- Excavation to 2' bgs (~17,184 sq.ft.)
- Trench Area to 4' bgs (~335 sq.ft.)

0 20 40 ft.
NAD 1983 UTM Zone 13N
Date: Jul 10/24

Map Center:
Lat/Long
32.722200,
-104.368626

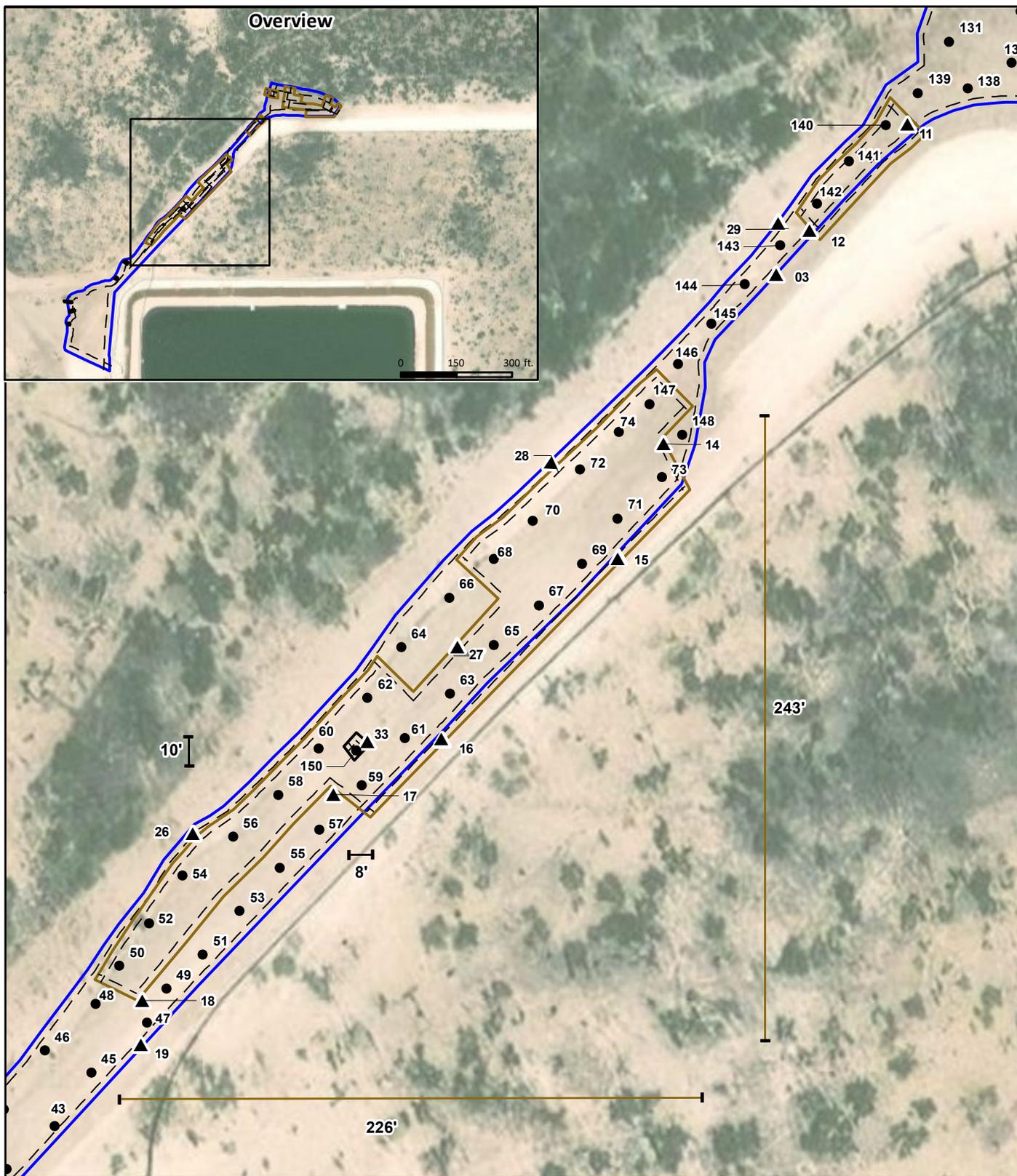
**Confirmatory Sampling Site Schematic - South
Dayton Recycle Release**

FIGURE:
2a

Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 2 Confirmatory Sampling Site Schematic Dayton Recycle Release South (23E-02248)ID:1884.1.mxd

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Note: Georeferenced image from Esri, 2023. Site features from GPS, Vertex Professional Services Ltd., 2024.



- Base Sample (Prefixed by "BS24-")
- ▲ Wall Sample (Prefixed by "WS24-")
- Excavation to 1' bgs (~58,492 sq.ft.)
- Excavation to 2' bgs (~17,184 sq.ft.)
- Trench Area to 4' bgs (~335 sq.ft.)

VERTEX

0 10 20 40 ft.

NAD 1983 UTM Zone 13N
Date: Jul 10/24

Map Center:
Lat/Long
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-104.367649

N

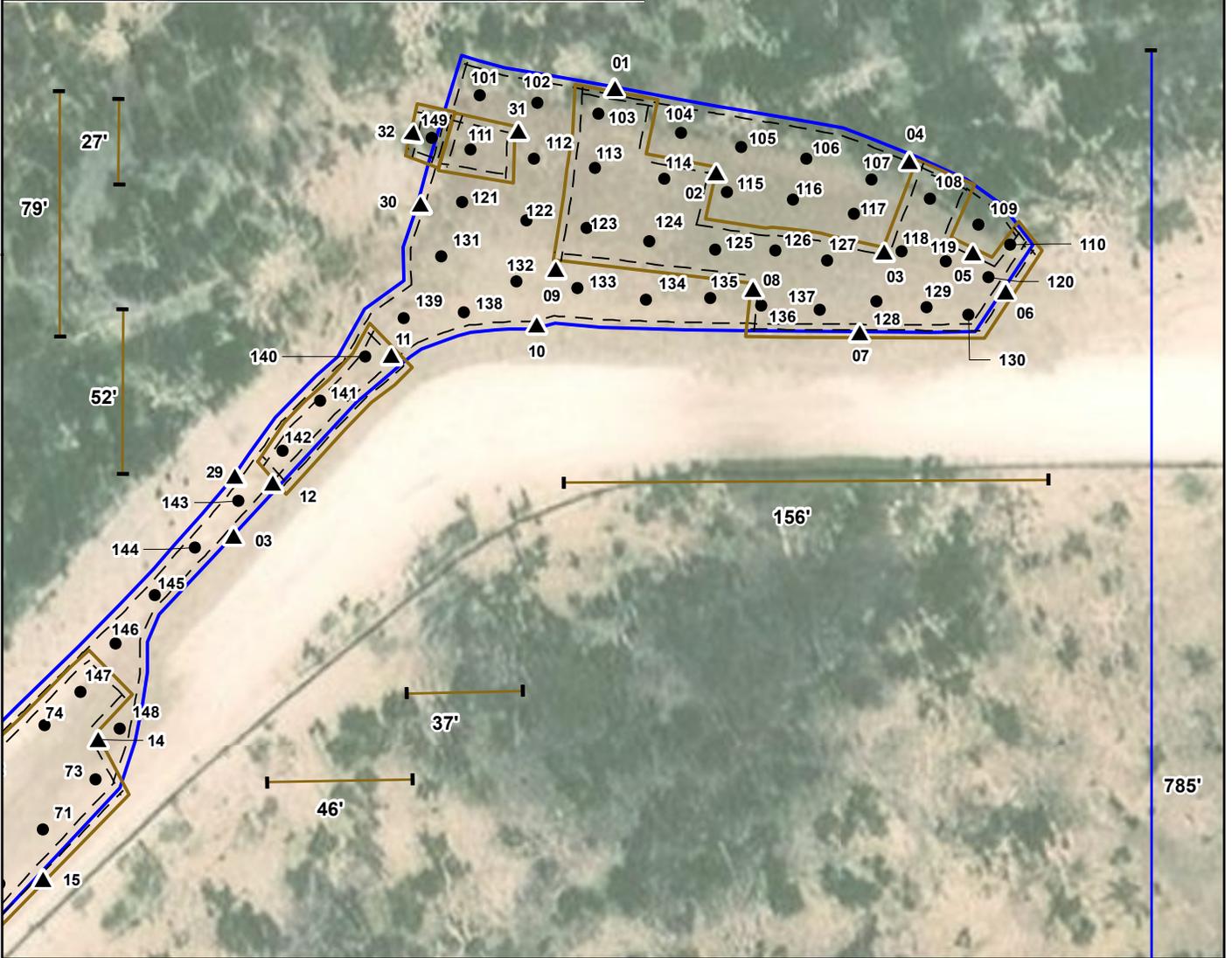
**Confirmatory Sampling Site Schematic - Middle
Dayton Recycle Release**

FIGURE:
2b

**SILVERBACK
EXPLORATION**

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. Site features from GPS, Vertex Professional Services Ltd., 2024.

Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 2a Confirmatory Sampling Site Schematic Dayton Recycle Release Middle (23E-02248)ID:8841.mxd



- Base Sample (Prefixed by "BS24-")
- ▲ Wall Sample (Prefixed by "WS24-")
- Excavation to 1' bgs (~58,492 sq.ft.)
- Excavation to 2' bgs (~17,184 sq.ft.)
- Trench Area to 4' bgs (~335 sq.ft.)



0 10 20 40 ft.

NAD 1983 UTM Zone 13N
Date: Jul 10/24

Map Center:
Lat/Long
32.723697,
-104.366911



Confirmatory Sampling Site Schematic - North
Dayton Recycle Release

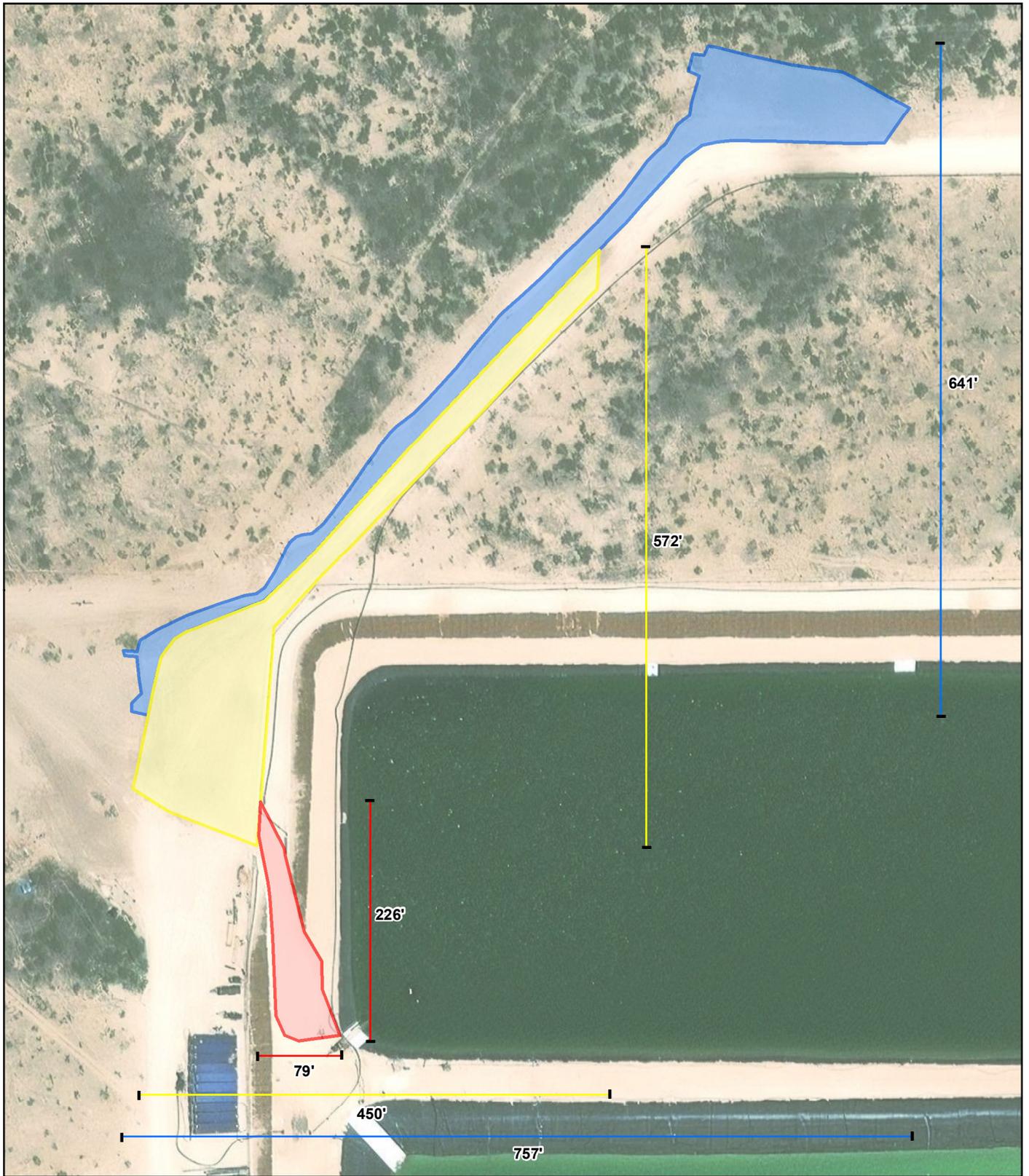
FIGURE:
2c



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. Site features from GPS, Vertex Professional Services Ltd., 2024.

Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 2 Confirmatory Sampling Site Schematic Dayton Recycle Release North (23E-02248)ID1884_1.mxd



■ Deferral Area (~ 7,234 sq. ft.)
 ■ Land Reclamation Areas (~ 29,609 sq. ft.)
 ■ Reconstructed Pad/Lease Road (~ 32,855 sq. ft.)



0 20 40 80 120 ft.
 NAD 1983 UTM Zone 13N
 Date: Jun 18/24

Map Center:
 Lat/Long
 32.722420,
 -104.367685



**Land Reclamation Site Schematic
 Dayton Recycle Release**

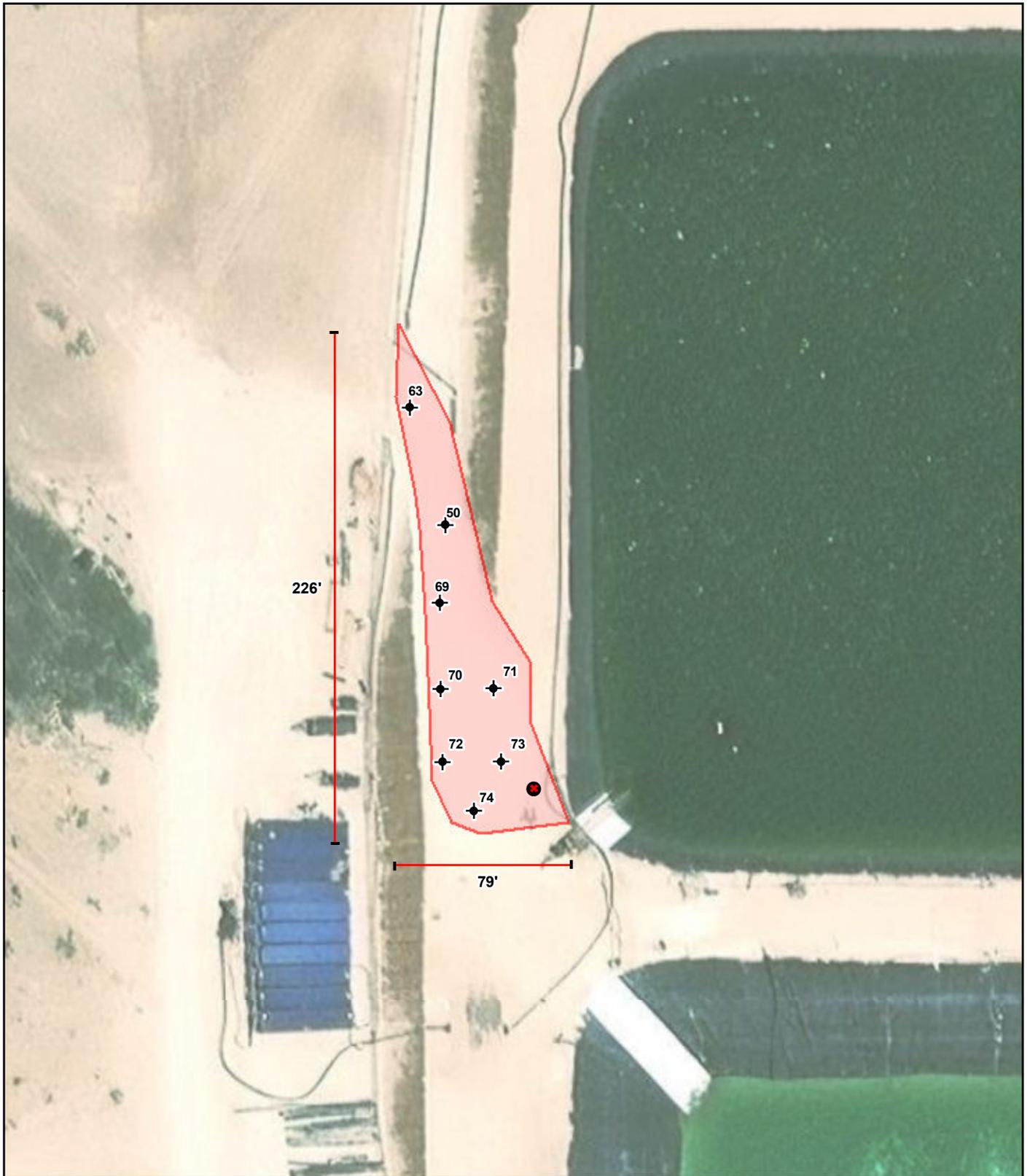
FIGURE:
3



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. Site features from GPS, Vertex Professional Services Ltd., 2024.

Document Path: C:\I-Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 3 Dayton Recycle Land Reclamation Schematic (23E-02248)ID18683.mxd



- ◆ Borehole (Prefixed by "BH23-")
- Point of Release
- Deferral Area (~7,234 sq.ft. | ~520 ft.)

Document Path: S:\04 - Geomatics\1 - Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure 4 Deferral Schematic (23E-02248)ID 18842.mxd



0 20 40 ft.
 NAD 1983 UTM Zone 13N
 Date: Jul 10/24

Map Center:
 Lat/Long
 32.721534,
 -104.368311



**Deferral Request Site Schematic
 Dayton Recycle Release**

FIGURE:
4



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Note: Georeferenced image from Esri, 2023. Site features from GPS, Vertex Professional Services Ltd., 2024.

VERSATILITY. EXPERTISE.

TABLES

Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: 2306008, 2305B56, 2305B58, 2305347, 2305404, 2305A89, 2306560 and 2307085

Table 3. Initial Characterization Field Screen and Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						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)	
Depth to Groundwater: 51-100 feet bgs													
BH23-01	0	April 30, 2023	-	-	2	-	-	-	-	-	-	-	ND
	2	May 1, 2023	-	-	932	ND	ND	ND	ND	ND	ND	ND	420
	4	May 1, 2023	-	-	407	-	-	-	-	-	-	-	210
BH23-02	0	April 30, 2023	-	-	4,477	-	-	-	-	-	-	-	5200
	2	May 1, 2023	-	-	567	-	-	-	-	-	-	-	240
	4	May 1, 2023	-	-	660	-	-	-	-	-	-	-	220
BH23-03	0	May 1, 2023	-	-	447	-	-	-	-	-	-	-	ND
	2	May 1, 2023	-	-	327	-	-	-	-	-	-	-	ND
	4	May 1, 2023	-	-	400	-	-	-	-	-	-	-	280
BH23-04	0	May 1, 2023	-	-	400	-	-	-	-	-	-	-	6000
	2	May 1, 2023	-	-	592	-	-	-	-	-	-	-	240
	4	May 1, 2023	-	-	500	-	-	-	-	-	-	-	190
BH23-05	0	May 2, 2023	-	-	1,250	-	-	-	-	-	-	-	2200
	2	May 2, 2023	-	-	590	ND	ND	ND	ND	ND	ND	ND	410
	4	May 2, 2023	-	-	440	-	-	-	-	-	-	-	190
BH23-06	0	May 2, 2023	-	-	313	-	-	-	-	-	-	-	ND
	2	May 2, 2023	-	-	330	-	-	-	-	-	-	-	ND
	4	May 2, 2023	-	-	250	-	-	-	-	-	-	-	ND
BH23-07	0	May 2, 2023	-	-	4,224	-	-	-	-	-	-	-	5900
	2	May 2, 2023	-	-	193	-	-	-	-	-	-	-	ND
	4	May 2, 2023	-	-	265	-	-	-	-	-	-	-	ND
BH23-08	0	May 2, 2023	-	-	930	-	-	-	-	-	-	-	7500
	2	May 2, 2023	-	-	272	-	-	-	-	-	-	-	88
	4	May 2, 2023	-	-	650	-	-	-	-	-	-	-	300
BH23-09	0	May 2, 2023	-	-	1,052	-	-	-	-	-	-	-	2100
	2	May 2, 2023	-	-	380	-	-	-	-	-	-	-	ND
	4	May 2, 2023	-	-	330	-	-	-	-	-	-	-	ND
BH23-10	0	May 3, 2023	-	-	2,831	-	-	-	-	-	-	-	2800
	2	May 3, 2023	-	-	333	ND	ND	ND	ND	ND	ND	ND	97
	4	May 3, 2023	-	-	237	-	-	-	-	-	-	-	ND
BH23-11	0	May 3, 2023	-	-	3,755	-	-	-	-	-	-	-	4400
	2	May 3, 2023	-	-	400	-	-	-	-	-	-	-	ND
	4	May 3, 2023	-	-	233	-	-	-	-	-	-	-	ND
BH23-12	0	May 3, 2023	-	-	1,778	-	-	-	-	-	-	-	2300
	2	May 3, 2023	-	-	295	-	-	-	-	-	-	-	ND
	4	May 3, 2023	-	-	292	-	-	-	-	-	-	-	ND
BH23-13	0	May 3, 2023	-	-	2,056	-	-	-	-	-	-	-	2600
	2	May 3, 2023	-	-	445	-	-	-	-	-	-	-	220
	4	May 3, 2023	-	-	600	-	-	-	-	-	-	-	270
BH23-14	0	May 3, 2023	-	-	1,324	-	-	-	-	-	-	-	1400
	2	May 3, 2023	-	-	272	-	-	-	-	-	-	-	ND
	4	May 3, 2023	-	-	242	-	-	-	-	-	-	-	65
BH23-15	0	May 3, 2023	-	-	314	-	-	-	-	-	-	-	590
	2	May 3, 2023	-	-	450	-	-	-	-	-	-	-	330
	4	May 3, 2023	-	-	375	-	-	-	-	-	-	-	210
BH23-16	0	May 3, 2023	-	-	ND	-	-	-	-	-	-	-	ND
	2	May 3, 2023	-	-	984	ND	ND	ND	ND	ND	ND	ND	860
	4	May 3, 2023	-	-	650	-	-	-	-	-	-	-	380
BH23-17	0	May 5, 2023	-	-	363	-	-	-	-	-	-	-	71
	2	May 5, 2023	-	-	250	-	-	-	-	-	-	-	ND
	4	May 5, 2023	-	-	195	-	-	-	-	-	-	-	ND

"ND" Not Detected at the Reporting Limit
 "-" indicates not analyzed/assessed

Bold and grey: exceeds NMOCD Closure Criteria (on-pad)
Bold and green: exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: 2306008, 2305B56, 2305B58, 2305347, 2305404, 2305A89, 2306560 and 2307085

Table 3. Initial Characterization Field Screen and Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						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)	
Depth to Groundwater: 51-100 feet bgs													
BH23-18	0	May 5, 2023	-	-	3,147	-	-	-	-	-	-	-	4800
	2	May 5, 2023	-	-	185	-	-	-	-	-	-	-	ND
	4	May 5, 2023	-	-	228	-	-	-	-	-	-	-	ND
BH23-19	0	May 5, 2023	-	-	177	-	-	-	-	-	-	-	ND
	2	May 5, 2023	-	-	435	-	-	-	-	-	-	-	230
	4	May 5, 2023	-	-	500	-	-	-	-	-	-	-	180
BH23-20	0	May 5, 2023	-	-	141	-	-	-	-	-	-	-	ND
	2	May 5, 2023	-	-	260	ND	ND	ND	ND	ND	ND	ND	ND
	4	May 5, 2023	-	-	460	-	-	-	-	-	-	-	ND
BH23-21	0	May 6, 2023	-	-	3,488	-	-	-	-	-	-	-	4900
	2	May 6, 2023	-	-	295	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	507	-	-	-	-	-	-	-	ND
BH23-22	0	May 6, 2023	-	-	9,289	-	-	-	-	-	-	-	9500
	2	May 6, 2023	-	-	408	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	162	-	-	-	-	-	-	-	ND
BH23-23	0	May 6, 2023	-	-	2,965	-	-	-	-	-	-	-	4600
	2	May 6, 2023	-	-	1,490	-	-	-	-	-	-	-	870
	4	May 6, 2023	-	-	1,392	-	-	-	-	-	-	-	740
BH23-24	0	May 6, 2023	-	-	1,306	-	-	-	-	-	-	-	700
	2	May 6, 2023	-	-	324	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	390	-	-	-	-	-	-	-	130
BH23-25	0	May 6, 2023	-	-	3,124	-	-	-	-	-	-	-	5600
	2	May 6, 2023	-	-	437	ND	ND	ND	ND	ND	ND	ND	ND
	4	May 6, 2023	-	-	375	-	-	-	-	-	-	-	ND
BH23-26	0	May 6, 2023	-	-	662	-	-	-	-	-	-	-	500
	2	May 6, 2023	-	-	225	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	204	-	-	-	-	-	-	-	ND
BH23-27	0	May 6, 2023	-	-	1,739	-	-	-	-	-	-	-	2600
	2	May 6, 2023	-	-	487	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	380	-	-	-	-	-	-	-	ND
BH23-28	0	May 6, 2023	-	-	474	-	-	-	-	-	-	-	410
	2	May 6, 2023	-	-	300	-	-	-	-	-	-	-	ND
	4	May 6, 2023	-	-	788	-	-	-	-	-	-	-	600
BH23-29	0	May 18, 2023	-	-	2,173	-	-	-	-	-	-	-	2300
	2	May 18, 2023	-	-	170	-	-	-	-	-	-	-	72
	4	May 18, 2023	-	-	225	-	-	-	-	-	-	-	190
BH23-30	0	May 18, 2023	-	-	3,372	-	-	-	-	-	-	-	2900
	2	May 18, 2023	-	-	293	-	-	-	-	-	-	-	340
	4	May 18, 2023	-	-	353	ND	ND	ND	ND	ND	ND	ND	300
BH23-31	0	May 18, 2023	-	-	8,079	-	-	-	-	-	-	-	13000
	2	May 18, 2023	-	-	145	-	-	-	-	-	-	-	ND
	4	May 18, 2023	-	-	480	-	-	-	-	-	-	-	350
BH23-32	0	May 18, 2023	-	-	724	-	-	-	-	-	-	-	150
	2	May 18, 2023	-	-	525	-	-	-	-	-	-	-	370
	4	May 18, 2023	-	-	1,190	ND	ND	ND	ND	ND	ND	ND	1100
BH23-33	0	May 18, 2023	-	-	1,591	-	-	-	-	-	-	-	440
	2	May 18, 2023	-	-	160	-	-	-	-	-	-	-	ND
BH23-34	0	May 19, 2023	-	-	545	-	-	-	-	-	-	-	310
	2	May 19, 2023	-	-	158	-	-	-	-	-	-	-	ND
	4	May 19, 2023	-	-	200	ND	ND	ND	ND	ND	ND	ND	61
BH23-35	0	May 19, 2023	-	-	559	-	-	-	-	-	-	-	450
	2	May 19, 2023	-	-	220	-	-	-	-	-	-	-	78
	4	May 19, 2023	-	-	350	-	-	-	-	-	-	-	71

"ND" Not Detected at the Reporting Limit
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Bold and grey: exceeds NMOCD Closure Criteria (on-pad)
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Client Name: Silverback Exploration
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						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)	
Depth to Groundwater: 51-100 feet bgs													
BH23-36	0	May 19, 2023	-	-	1,870	-	-	-	-	-	-	-	730
	2	May 19, 2023	-	-	110	-	-	-	-	-	-	-	ND
	4	May 19, 2023	-	-	350	ND	ND	ND	ND	ND	ND	ND	ND
BH23-37	0	May 19, 2023	-	-	278	-	-	-	-	-	-	-	91
	2	May 19, 2023	-	-	230	-	-	-	-	-	-	-	78
	4	May 19, 2023	-	-	350	-	-	-	-	-	-	-	280
BH23-38	0	May 19, 2023	-	-	4,954	-	-	-	-	-	-	-	3,600
	2	May 19, 2023	-	-	300	-	-	-	-	-	-	-	140
	4	May 19, 2023	-	-	600	ND	ND	ND	ND	ND	ND	ND	430
BH23-39	0	May 19, 2023	-	-	904	-	-	-	-	-	-	-	320
	2	May 19, 2023	-	-	200	-	-	-	-	-	-	-	ND
	4	May 19, 2023	-	-	158	-	-	-	-	-	-	-	ND
BH23-40	0	May 20, 2023	-	-	335	-	-	-	-	-	-	-	110
	2	May 20, 2023	-	-	400	-	-	-	-	-	-	-	260
	4	May 20, 2023	-	-	805	ND	ND	ND	ND	ND	ND	ND	690
BH23-41	0	May 20, 2023	-	-	245	-	-	-	-	-	-	-	76
	2	May 20, 2023	-	-	195	-	-	-	-	-	-	-	66
	4	May 20, 2023	-	-	225	-	-	-	-	-	-	-	120
BH23-42	0	May 20, 2023	-	-	270	-	-	-	-	-	-	-	190
	2	May 20, 2023	-	-	173	-	-	-	-	-	-	-	89
	4	May 20, 2023	-	-	260	ND	ND	ND	ND	ND	ND	ND	190
BH23-43	0	May 20, 2023	-	-	1,805	-	-	-	-	-	-	-	1,000
	2	May 20, 2023	-	-	1,165	-	-	-	-	-	-	-	980
	4	May 20, 2023	-	-	1,290	-	-	-	-	-	-	-	970
BH23-44	0	May 20, 2023	-	-	235	-	-	-	-	-	-	-	86
	2	May 20, 2023	-	-	790	-	-	-	-	-	-	-	660
	4	May 20, 2023	-	-	885	ND	ND	ND	ND	ND	ND	ND	1,500
BH23-45	0	May 20, 2023	-	-	180	-	-	-	-	-	-	-	ND
	2	May 20, 2023	-	-	125	-	-	-	-	-	-	-	ND
	4	May 20, 2023	-	-	45	-	-	-	-	-	-	-	ND
BH23-46	0	May 20, 2023	-	-	155	-	-	-	-	-	-	-	130
	2	May 20, 2023	-	-	118	-	-	-	-	-	-	-	ND
	4	May 20, 2023	-	-	125	ND	ND	ND	ND	ND	ND	ND	ND
BH23-47	0	May 20, 2023	-	-	188	-	-	-	-	-	-	-	89
	2	May 20, 2023	-	-	75	-	-	-	-	-	-	-	ND
	4	May 20, 2023	-	-	585	-	-	-	-	-	-	-	480
BH23-48	0	May 20, 2023	-	-	115	-	-	-	-	-	-	-	ND
	2	May 20, 2023	-	-	133	-	-	-	-	-	-	-	ND
	4	May 20, 2023	-	-	225	ND	ND	ND	ND	ND	ND	ND	ND
BH23-49	0	May 20, 2023	-	-	415	-	-	-	-	-	-	-	360
	2	May 20, 2023	-	-	78	-	-	-	-	-	-	-	ND
	4	May 20, 2023	-	-	100	-	-	-	-	-	-	-	ND
BH23-50	0	May 27, 2023	-	74	3,258	-	-	-	-	-	-	-	11,000
BH23-51	0	May 27, 2023	-	37	1,548	-	-	-	-	-	-	-	12,000
BH23-52	0	May 27, 2023	-	32	1,982	-	-	-	-	-	-	-	17,000
BH23-53	0	May 27, 2023	-	84	1,750	-	-	-	-	-	-	-	34,000
BH23-54	0	May 27, 2023	-	46	2,160	-	-	-	-	-	-	-	15,000
BH23-55	0	June 3, 2023	-	-	900	-	-	-	-	-	-	-	480
	2	June 3, 2023	-	-	ND	-	-	-	-	-	-	-	ND
BH23-56	0	June 3, 2023	-	-	8,809	-	-	-	-	-	-	-	11,000
	2	June 3, 2023	-	-	170	-	-	-	-	-	-	-	110
BH23-57	0	June 3, 2023	-	-	1,272	-	-	-	-	-	-	-	1,000
	2	June 3, 2023	-	-	303	-	-	-	-	-	-	-	130
BH23-58	0	June 3, 2023	-	-	ND	-	-	-	-	-	-	-	ND
	2	June 3, 2023	-	-	1,013	-	-	-	-	-	-	-	1,100

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Depth to Groundwater: 51-100 feet bgs													
BH23-59	0	June 3, 2023	-	-	344	-	-	-	-	-	-	-	76
	2	June 3, 2023	-	-	12	-	-	-	-	-	-	-	98
BH23-60	0	June 3, 2023	-	-	740	-	-	-	-	-	-	-	100
BH23-61	0	June 3, 2023	-	-	639	-	-	-	-	-	-	-	230
BH23-62	0	June 3, 2023	-	-	11,680	-	-	-	-	-	-	-	9,200
BH23-63	0	June 3, 2023	-	-	10,241	-	-	-	-	-	-	-	11,000
BH23-64	0	June 3, 2023	-	-	9,807	-	-	-	-	-	-	-	8,300
BH23-65	0	June 3, 2023	-	-	12,142	-	-	-	-	-	-	-	12,000
BH23-66	0	June 3, 2023	-	-	2,883	-	-	-	-	-	-	-	1,700
BH23-67	0	June 3, 2023	-	-	13,897	-	-	-	-	-	-	-	13,000
BH23-68	0	June 3, 2023	-	-	10,450	-	-	-	-	-	-	-	11,000
BH23-69	0	June 9, 2023	-	-	549	-	-	-	-	-	-	-	290
BH23-70	0	June 9, 2023	-	-	150	-	-	-	-	-	-	-	200
BH23-71	0	June 9, 2023	-	-	2,521	ND	ND	ND	1600	2200	1600	3800	3,100
BH23-72	0	June 9, 2023	-	-	3,299	-	-	-	-	-	-	-	4,400
BH23-73	0	June 9, 2023	-	-	2,665	-	-	-	-	-	-	-	2,800
BH23-74	0	June 9, 2023	-	-	3,416	ND	ND	ND	540	1500	540	2040	3,800
TP23-01	2	May 27, 2023	-	-	308	-	-	-	-	-	-	-	ND
	4	May 27, 2023	-	-	412	ND	ND	ND	ND	ND	ND	ND	84
TP23-02	2	May 27, 2023	-	-	412	-	-	-	-	-	-	-	120
	4	May 27, 2023	-	48	548	ND	ND	ND	ND	ND	ND	ND	380
TP23-03	2	May 27, 2023	-	-	459	-	-	-	-	-	-	-	ND
	4	May 27, 2023	-	64	500	ND	ND	ND	ND	ND	ND	ND	ND
TP23-04	2	May 27, 2023	-	-	325	-	-	-	-	-	-	-	ND
	4	May 27, 2023	-	72	425	ND	ND	ND	ND	ND	ND	ND	ND
TP23-05	2	May 27, 2023	-	-	350	ND	ND	ND	ND	ND	ND	ND	ND
	4	May 27, 2023	-	46	425	ND	ND	ND	ND	ND	ND	ND	230
TP23-101	0	June 30, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 30, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP23-102	0	June 30, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 30, 2023	-	-	248	ND	ND	ND	ND	ND	ND	ND	ND
	4	June 30, 2023	-	-	238	ND	ND	ND	ND	ND	ND	ND	ND
TP23-103	5	June 30, 2023	-	-	396	ND	ND	ND	ND	ND	ND	ND	87
	0	June 30, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND
	2	June 30, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	June 30, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
TP23-103	5	June 30, 2023	-	-	83	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit
 "-" indicates not analyzed/assessed

Bold and grey: exceeds NMOCD Closure Criteria (on-pad)
Bold and green: exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: H244292, 2306E94, 2306G15, H241841, H242125, H242634, H243294, H243577, H243599, & H243926

Table 4. Confirmatory Sample Field Screen and Laboratory Results													
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)	(mg/kg)
Depth to Groundwater: 51-100 feet bgs													
BS23-01	1	July 17, 2024	ND	-	186	ND	ND	ND	ND	ND	ND	ND	16
BS23-02	1	July 17, 2024	ND	-	155	ND	ND	ND	ND	ND	ND	ND	16
BS23-03	1	July 17, 2024	ND	-	124	ND	ND	ND	ND	ND	ND	ND	64
BS23-04	1	July 17, 2024	ND	-	131	ND	ND	ND	ND	ND	ND	ND	48
BS23-05	1	July 17, 2024	ND	-	149	ND	ND	ND	ND	ND	ND	ND	80
BS23-06	1	July 17, 2024	ND	-	126	ND	ND	ND	ND	ND	ND	ND	128
BS23-07	1	July 17, 2024	ND	-	146	ND	ND	ND	ND	ND	ND	ND	128
BS23-08	1	July 17, 2024	ND	-	111	ND	ND	ND	ND	ND	ND	ND	128
BS23-09	1	July 17, 2024	ND	-	118	ND	ND	ND	ND	ND	ND	ND	160
BS23-10	1	July 17, 2024	ND	-	172	ND	ND	ND	ND	ND	ND	ND	80
BS23-11	1	July 17, 2024	ND	-	128	ND	ND	ND	ND	ND	ND	ND	64
BS23-12	1	July 17, 2024	ND	-	114	ND	ND	ND	ND	ND	ND	ND	80
BS23-13	1	July 17, 2024	ND	-	118	ND	ND	ND	ND	ND	ND	ND	80
BS23-14	1	July 17, 2024	ND	-	170	ND	ND	ND	ND	ND	ND	ND	64
BS23-15	1	July 17, 2024	ND	-	113	ND	ND	ND	ND	ND	ND	ND	160
BS23-16	1	July 17, 2024	ND	-	146	ND	ND	ND	ND	ND	ND	ND	32
BS23-17	1	July 17, 2024	ND	-	195	ND	ND	ND	ND	ND	ND	ND	112
BS23-18	1	July 17, 2024	ND	-	105	ND	ND	ND	ND	ND	ND	ND	96
BS23-19	1	July 17, 2024	ND	-	177	ND	ND	ND	ND	ND	ND	ND	112
BS23-20	1	July 17, 2024	ND	-	191	ND	ND	ND	ND	ND	ND	ND	128
BS23-21	1	July 17, 2024	ND	-	186	ND	ND	ND	ND	ND	ND	ND	16
BS23-22	1	July 17, 2024	ND	-	165	ND	ND	ND	ND	ND	ND	ND	96
BS23-23	1	July 17, 2024	ND	-	200	ND	ND	ND	ND	ND	ND	ND	144
BS23-24	1	July 17, 2024	ND	-	142	ND	ND	ND	ND	ND	ND	ND	112
BS23-25	1	July 17, 2024	ND	-	126	ND	ND	ND	ND	ND	ND	ND	96
BS23-26	1	July 17, 2024	ND	-	148	ND	ND	ND	ND	ND	ND	ND	80
BS23-27	1	July 17, 2024	ND	-	203	ND	ND	ND	ND	ND	ND	ND	112
BS23-28	1	July 17, 2024	ND	-	160	ND	ND	ND	ND	ND	ND	ND	48
BS23-29	1	July 17, 2024	ND	-	189	ND	ND	ND	ND	ND	ND	ND	144
BS23-30	1	July 17, 2024	ND	-	148	ND	ND	ND	ND	ND	ND	ND	96
BS23-31	1	July 17, 2024	ND	-	140	ND	ND	ND	ND	ND	ND	ND	128
BS23-32	1	July 17, 2024	ND	-	165	ND	ND	ND	ND	ND	ND	ND	32
BS23-33	1	July 17, 2024	ND	-	184	ND	ND	ND	ND	ND	ND	ND	112
BS23-34	1	July 17, 2024	ND	-	131	ND	ND	ND	ND	ND	ND	ND	160
BS23-35	1	July 17, 2024	ND	-	177	ND	ND	ND	ND	ND	ND	ND	ND
BS23-36	1	July 17, 2024	ND	-	217	ND	ND	ND	ND	ND	ND	ND	144
BS23-37	1	April 4, 2024	ND	-	393	ND	ND	ND	ND	ND	ND	ND	368
BS23-38	1	April 4, 2024	ND	-	288	ND	ND	ND	ND	ND	ND	ND	144
BS23-39	1	April 4, 2024	ND	-	365	ND	ND	ND	ND	ND	ND	ND	112
BS23-40	1	April 4, 2024	ND	-	119	ND	ND	ND	ND	ND	ND	ND	16
BS23-41	1	April 4, 2024	ND	-	360	ND	ND	ND	ND	ND	ND	ND	160
BS23-42	1	April 19, 2024	ND	-	303	ND	ND	ND	ND	ND	ND	ND	160
BS23-43	1	April 4, 2024	ND	-	108	ND	ND	ND	ND	ND	ND	ND	64
BS23-44	1	April 4, 2024	ND	-	339	ND	ND	ND	ND	ND	ND	ND	304
BS23-45	1	April 4, 2024	ND	-	88	ND	ND	ND	ND	ND	ND	ND	32
BS23-46	1	April 4, 2024	ND	-	93	ND	ND	ND	ND	ND	ND	ND	80
BS23-47	1	April 4, 2024	ND	-	36	ND	ND	ND	ND	ND	ND	ND	16
BS23-48	1	April 4, 2024	ND	-	108	ND	ND	ND	ND	ND	ND	ND	128
BS23-49	1	April 4, 2024	ND	-	300	ND	ND	ND	ND	ND	ND	ND	160

"ND" Not Detected at the Reporting Limit
 "." indicates not analyzed/assessed

Bold/Green shaded exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: H244292, 2306E94, 2306G15, H241841, H242125, H242634, H243294, H243577, H243599, & H243926

Table 4. Confirmatory Sample Field Screen and Laboratory Results													
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					Chloride Concentration
						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)	(mg/kg)
Depth to Groundwater: 51-100 feet bgs													
BS23-50	1	April 4, 2024	ND	-	3,689	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	331	ND	ND	ND	ND	ND	ND	ND	96
BS23-51	1	April 4, 2024	ND	-	191	ND	ND	ND	ND	ND	ND	ND	96
BS23-52	1	April 4, 2024	ND	-	1,704	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	96	ND	ND	ND	ND	ND	ND	ND	80
BS23-53	1	April 4, 2024	ND	-	96	ND	ND	ND	ND	ND	ND	ND	64
BS23-54	1	April 4, 2024	ND	-	2,007	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	183	ND	ND	ND	ND	ND	ND	ND	80
BS23-55	1	April 3, 2024	ND	-	417	ND	ND	ND	ND	ND	ND	ND	80
BS23-56	1	April 3, 2024	ND	-	2,004	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	274	ND	ND	ND	ND	ND	ND	ND	80
BS23-57	1	April 3, 2024	ND	-	557	ND	ND	ND	ND	ND	ND	ND	64
BS23-58	1	April 3, 2024	ND	-	1,513	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	399	ND	ND	ND	ND	ND	ND	ND	80
BS23-59	1	April 3, 2024	ND	-	2,717	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	331	ND	ND	ND	ND	ND	ND	ND	144
BS23-60	1	April 3, 2024	ND	-	3,530	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	265	ND	ND	ND	ND	ND	ND	ND	64
BS23-61	1	April 3, 2024	ND	-	19,944	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	399	ND	ND	ND	ND	ND	ND	ND	128
BS23-62	1	April 3, 2024	ND	-	2,812	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	385	ND	ND	ND	ND	ND	ND	ND	64
BS23-63	1	April 3, 2024	ND	-	1,812	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	125	ND	ND	ND	ND	ND	ND	ND	32
BS23-64	1	April 3, 2024	ND	-	676	ND	ND	ND	ND	ND	ND	ND	176
BS23-65	1	April 3, 2024	ND	-	28,711	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	395	ND	ND	ND	ND	ND	ND	ND	32
BS23-66	1	April 3, 2024	ND	-	389	ND	ND	ND	ND	ND	ND	ND	48
BS23-67	1	April 3, 2024	ND	-	17,159	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	92	ND	ND	ND	ND	ND	ND	ND	16
BS23-68	1	April 3, 2024	ND	-	10,497	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	82	ND	ND	ND	ND	ND	ND	ND	112
BS23-69	1	April 3, 2024	ND	-	22,769	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	106	ND	ND	ND	ND	ND	ND	ND	128
BS23-70	1	April 3, 2024	ND	-	15,591	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	360	ND	ND	ND	ND	ND	ND	ND	64
BS23-71	1	April 3, 2024	ND	-	9,798	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	154	ND	ND	ND	ND	ND	ND	ND	144
BS23-72	1	April 3, 2024	ND	-	6,695	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	414	ND	ND	ND	ND	ND	ND	ND	224
BS23-73	1	April 3, 2024	ND	-	1,412	-	-	-	-	-	-	-	-
	2	June 3, 2024	ND	-	38	ND	ND	ND	ND	ND	ND	ND	48
BS23-74	1	April 3, 2024	ND	-	1,394	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	381	ND	ND	ND	ND	ND	ND	ND	208
BS23-75	1	June 27, 2023	ND	77	473	ND	ND	ND	ND	ND	ND	ND	310
BS23-76	1	June 27, 2023	ND	-	383	ND	ND	ND	ND	ND	ND	ND	300
BS23-77	1	June 27, 2023	ND	-	313	ND	ND	ND	ND	ND	ND	ND	250
BS23-78	1	June 27, 2023	ND	-	241	ND	ND	ND	ND	ND	ND	ND	170
BS23-79	1	June 27, 2023	ND	-	298	ND	ND	ND	ND	ND	ND	ND	240
BS23-80	1	June 27, 2023	ND	79	197	ND	ND	ND	ND	ND	ND	ND	450
BS23-81	1	June 27, 2023	ND	-	105	ND	ND	ND	ND	ND	ND	ND	410
BS23-82	1	June 27, 2023	ND	-	200	ND	ND	ND	ND	ND	ND	ND	270
BS23-83	1	June 27, 2023	ND	-	363	ND	ND	ND	ND	ND	ND	ND	320
BS23-84	1	June 27, 2023	ND	-	277	ND	ND	ND	ND	ND	ND	ND	340

"ND" Not Detected at the Reporting Limit
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Bold/Green shaded exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: H244292, 2306E94, 2306G15, H241841, H242125, H242634, H243294, H243577, H243599, & H243926

Table 4. Confirmatory Sample Field Screen and Laboratory Results													
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)	(mg/kg)
Depth to Groundwater: 51-100 feet bgs													
BS23-85	1	June 27, 2023	ND	72	349	ND	ND	ND	ND	ND	ND	ND	300
BS23-86	1	June 27, 2023	ND	-	398	ND	ND	ND	ND	ND	ND	ND	260
BS23-87	1	June 28, 2023	ND	-	427	ND	ND	ND	ND	ND	ND	ND	340
BS23-88	1	June 28, 2023	ND	-	562	ND	ND	ND	ND	ND	ND	ND	360
BS23-89	1	June 28, 2023	ND	-	438	ND	ND	ND	ND	ND	ND	ND	320
BS23-90	1	June 28, 2023	ND	37	528	ND	ND	ND	ND	ND	ND	ND	120
BS23-91	1	June 28, 2023	ND	-	389	ND	ND	ND	ND	ND	ND	ND	190
BS23-92	1	June 28, 2023	ND	-	230	ND	ND	ND	ND	ND	ND	ND	260
BS23-93	1	June 28, 2023	ND	-	102	ND	ND	ND	ND	ND	ND	ND	300
BS23-94	1	June 28, 2023	ND	-	252	ND	ND	ND	ND	ND	ND	ND	420
BS23-95	1	June 28, 2023	ND	45	73	ND	ND	ND	ND	ND	ND	ND	180
BS23-96	1	June 28, 2023	ND	-	294	ND	ND	ND	ND	ND	ND	ND	300
BS23-97	1	June 28, 2023	ND	-	194	ND	ND	ND	ND	ND	ND	ND	320
BS23-98	1	June 28, 2023	ND	-	194	ND	ND	ND	ND	ND	ND	ND	330
BS23-99	1	June 28, 2023	ND	-	181	ND	ND	ND	ND	ND	ND	ND	230
BS23-100	1	June 28, 2023	ND	31	197	ND	ND	ND	ND	ND	ND	ND	200
BS23-101	1	April 2, 2024	ND	-	79	ND	ND	ND	ND	ND	ND	ND	ND
BS23-102	1	April 2, 2024	ND	-	147	ND	ND	ND	ND	ND	ND	ND	ND
BS23-103	1	April 2, 2024	ND	-	10,912	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	331	ND	ND	ND	ND	ND	ND	ND	112
BS23-104	1	April 2, 2024	ND	-	515	ND	ND	ND	ND	ND	ND	ND	96
BS23-105	1	April 2, 2024	ND	-	490	ND	ND	ND	ND	ND	ND	ND	112
BS23-106	1	April 2, 2024	ND	-	933	ND	ND	ND	ND	ND	ND	ND	656
	1	April 19, 2024	ND	-	151	ND	ND	ND	ND	ND	ND	ND	112
BS23-107	1	April 2, 2024	ND	-	721	ND	ND	ND	ND	ND	ND	ND	352
BS23-108	1	April 2, 2024	ND	-	2,963	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	96	ND	ND	ND	ND	ND	ND	ND	80
BS23-109	1	April 2, 2024	ND	-	474	ND	ND	ND	ND	ND	ND	ND	112
BS23-110	1	April 2, 2024	ND	-	1,231	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	183	ND	ND	ND	ND	ND	ND	ND	96
BS23-111	1	April 2, 2024	ND	-	1,587	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	274	ND	ND	ND	ND	ND	ND	ND	192
BS23-112	1	April 2, 2024	ND	-	533	ND	ND	ND	ND	ND	ND	ND	112
BS23-113	1	April 2, 2024	ND	-	8,620	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	399	ND	ND	ND	ND	ND	ND	ND	224
BS23-114	1	April 2, 2024	ND	-	2,996	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	331	ND	ND	ND	ND	ND	ND	ND	240
BS23-115	1	April 2, 2024	ND	-	138	ND	ND	ND	ND	ND	ND	ND	64
BS23-116	1	April 19, 2024	ND	-	750	ND	ND	ND	ND	ND	ND	ND	272
BS23-117	1	April 2, 2024	ND	-	724	ND	ND	ND	ND	ND	ND	ND	320
BS23-118	1	April 2, 2024	ND	-	2,976	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	265	ND	ND	ND	ND	ND	ND	ND	160
BS23-119	1	April 2, 2024	ND	-	11,357	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	399	ND	ND	ND	ND	ND	ND	ND	320
BS23-120	1	April 2, 2024	ND	-	7,723	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	385	ND	ND	ND	ND	ND	ND	ND	272
BS23-121	1	April 2, 2024	ND	-	291	ND	ND	ND	ND	ND	ND	ND	32
BS23-122	1	April 2, 2024	ND	-	301	ND	ND	ND	ND	ND	ND	ND	112
BS23-123	1	April 2, 2024	ND	-	4,458	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	125	ND	ND	ND	ND	ND	ND	ND	144
BS23-124	1	April 2, 2024	ND	-	2,120	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	395	ND	ND	ND	ND	ND	ND	ND	176
BS23-125	1	April 2, 2024	ND	-	2,289	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	92	ND	ND	ND	ND	ND	ND	ND	35

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Bold/Green shaded exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: H244292, 2306E94, 2306G15, H241841, H242125, H242634, H243294, H243577, H243599, & H243926

Table 4. Confirmatory Sample Field Screen and Laboratory Results													
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)	(mg/kg)
Depth to Groundwater: 51-100 feet bgs													
BS23-126	1	April 2, 2024	ND	-	3,065	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	82	ND	ND	ND	ND	ND	ND	ND	48
BS23-127	1	April 2, 2024	ND	-	10,612	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	106	ND	ND	ND	ND	ND	ND	ND	64
BS23-128	1	April 2, 2024	ND	-	5,843	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	360	ND	ND	ND	ND	ND	ND	ND	240
BS23-129	1	April 2, 2024	ND	-	916	ND	ND	ND	ND	ND	ND	ND	816
	2	May 9, 2024	ND	-	154	ND	ND	ND	ND	ND	ND	ND	80
BS23-130	1	April 2, 2024	ND	-	4,972	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	414	ND	ND	ND	ND	ND	ND	ND	96
BS23-131	1	April 2, 2024	ND	-	531	ND	ND	ND	ND	ND	ND	ND	48
BS23-132	1	April 19, 2024	ND	-	670	ND	ND	ND	ND	ND	ND	ND	480
BS23-133	1	April 2, 2024	ND	-	271	ND	ND	ND	ND	ND	ND	ND	80
BS23-134	1	April 2, 2024	ND	-	805	ND	ND	ND	ND	ND	ND	ND	352
BS23-135	1	April 2, 2024	ND	-	972	ND	ND	ND	ND	ND	ND	ND	320
BS23-136	1	April 2, 2024	ND	-	3,782	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	38	ND	ND	ND	ND	ND	ND	ND	16
BS23-137	1	April 2, 2024	ND	-	2,362	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	381	ND	ND	ND	ND	ND	ND	ND	304
BS23-138	1	April 19, 2024	ND	-	642	ND	ND	ND	ND	ND	ND	ND	432
BS23-139	1	April 3, 2024	ND	-	932	ND	ND	ND	ND	ND	ND	ND	384
BS23-140	1	April 3, 2024	ND	-	3,713	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	49	ND	ND	ND	ND	ND	ND	ND	64
BS23-141	1	April 3, 2024	ND	-	3,761	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	10	ND	ND	ND	ND	ND	ND	ND	16
BS23-142	1	April 3, 2024	ND	-	3,146	-	-	-	-	-	-	-	-
	2	May 9, 2024	ND	-	144	ND	ND	ND	ND	ND	ND	ND	32
BS23-143	1	April 19, 2024	ND	-	573	ND	ND	ND	ND	ND	ND	ND	144
BS23-144	1	April 19, 2024	ND	-	790	ND	ND	ND	ND	ND	ND	ND	272
BS23-145	1	April 3, 2024	ND	-	282	ND	ND	ND	ND	ND	ND	ND	192
BS23-146	1	April 19, 2024	ND	-	670	ND	ND	ND	ND	ND	ND	ND	304
BS23-147	1	April 3, 2024	ND	-	4,169	-	-	-	-	-	-	-	-
	2	June 4, 2024	ND	-	49	ND	ND	ND	ND	ND	ND	ND	32
BS23-148	1	April 3, 2024	ND	-	495	ND	ND	ND	ND	ND	ND	ND	192
BS23-149	2	June 6, 2024	ND	-	157	ND	ND	ND	ND	ND	ND	ND	96
BS23-150	4	June 6, 2024	ND	-	186	ND	ND	ND	ND	ND	ND	ND	80
BS23-151	4.1	June 18, 2024	ND	-	288	ND	ND	ND	ND	ND	ND	ND	160
BS23-152	4.1	June 18, 2024	ND	-	177	ND	ND	ND	ND	ND	ND	ND	64
BS23-153	4.1	June 18, 2024	ND	-	119	ND	ND	ND	ND	ND	ND	ND	48
BS23-154	4.1	June 18, 2024	ND	-	101	ND	ND	ND	ND	ND	ND	ND	144
BS23-155	4.1	June 18, 2024	ND	-	98	ND	ND	ND	ND	ND	ND	ND	80
WS24-01	0-1ft	June 6, 2024	ND	-	496	ND	ND	ND	ND	ND	ND	ND	256
WS24-02	1-2ft	June 6, 2024	ND	-	497	ND	ND	ND	ND	ND	ND	ND	240
WS24-03	1-2ft	June 6, 2024	ND	-	498	ND	ND	ND	ND	ND	ND	ND	240
WS24-04	0-1ft	June 6, 2024	ND	-	499	ND	ND	ND	ND	ND	ND	ND	256
WS24-05	1-2ft	June 6, 2024	ND	-	500	ND	ND	ND	ND	ND	ND	ND	288
WS24-06	0-2ft	June 6, 2024	ND	-	501	ND	ND	ND	ND	ND	ND	ND	320
WS24-07	0-2ft	June 6, 2024	ND	-	502	ND	ND	ND	ND	ND	ND	ND	320
WS24-08	1-2ft	June 6, 2024	ND	-	503	ND	ND	ND	ND	ND	ND	ND	160
WS24-09	1-2ft	June 6, 2024	ND	-	504	ND	ND	ND	ND	ND	ND	ND	128
WS24-10	0-1ft	June 6, 2024	ND	-	505	ND	ND	ND	ND	ND	ND	ND	128
WS24-11	1-2ft	June 6, 2024	ND	-	506	ND	ND	ND	ND	ND	ND	ND	160
WS24-12	1-2ft	June 6, 2024	ND	-	507	ND	ND	ND	ND	ND	ND	ND	160
WS24-13	0-1ft	June 6, 2024	ND	-	508	ND	ND	ND	ND	ND	ND	ND	112

"ND" Not Detected at the Reporting Limit
 "-." indicates not analyzed/assessed

Bold/Green shaded exceeds NMOCD Reclamation Criteria (off-pad)



Client Name: Silverback Exploration
 Site Name: Dayton Recycle Release
 NMOCD Tracking #: nAPP2307356662
 Project #: 23E-02248
 Lab Reports: H244292, 2306E94, 2306G15, H241841, H242125, H242634, H243294, H243577, H243599, & H243926

Table 4. Confirmatory Sample Field Screen and Laboratory Results													
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)	(mg/kg)
Depth to Groundwater: 51-100 feet bgs													
WS24-14	1-2ft	June 6, 2024	ND	-	509	ND	ND	ND	ND	ND	ND	ND	112
WS24-15	0-2ft	June 6, 2024	ND	-	510	ND	ND	ND	ND	ND	ND	ND	112
WS24-16	0-2ft	June 6, 2024	ND	-	511	ND	ND	ND	ND	ND	ND	ND	208
WS24-17	1-2ft	June 6, 2024	ND	-	512	ND	ND	ND	ND	ND	ND	ND	80
WS24-18	1-2ft	June 6, 2024	ND	-	513	ND	ND	ND	ND	ND	ND	ND	112
WS24-19	0-1ft	June 6, 2024	ND	-	514	ND	ND	ND	ND	ND	ND	ND	96
WS24-20	0-1ft	June 6, 2024	ND	-	515	ND	ND	ND	ND	ND	ND	ND	272
WS24-21	0-1ft	June 6, 2024	ND	-	516	ND	ND	ND	ND	ND	ND	ND	240
WS24-22	0-1ft	June 6, 2024	ND	-	517	ND	ND	ND	ND	ND	ND	ND	240
WS24-23	0-1ft	June 6, 2024	ND	-	518	ND	ND	ND	ND	ND	ND	ND	224
WS24-24	0-1ft	June 6, 2024	ND	-	519	ND	ND	ND	ND	ND	ND	ND	96
WS24-25	0-1ft	June 6, 2024	ND	-	520	ND	ND	ND	ND	ND	ND	ND	144
WS24-26	0-2ft	June 6, 2024	ND	-	521	ND	ND	ND	ND	ND	ND	ND	128
WS24-27	1-2ft	June 6, 2024	ND	-	522	ND	ND	ND	ND	ND	ND	ND	208
WS24-28	0-2ft	June 6, 2024	ND	-	523	ND	ND	ND	ND	ND	ND	ND	208
WS24-29	0-1ft	June 6, 2024	ND	-	524	ND	ND	ND	ND	ND	ND	ND	208
WS24-30	0-1ft	June 6, 2024	ND	-	525	ND	ND	ND	ND	ND	ND	ND	112
WS24-31	1-2ft	June 6, 2024	ND	-	526	ND	ND	ND	ND	ND	ND	ND	64
WS24-32	0-2ft	June 6, 2024	ND	-	527	ND	ND	ND	ND	ND	ND	ND	64
WS24-33	2-4ft	June 6, 2024	ND	-	528	ND	ND	ND	ND	ND	ND	ND	64
WS24-34	1-4ft	June 13, 2024	ND	-	249	ND	ND	ND	ND	ND	ND	ND	48
WS24-35	1-4ft	June 13, 2024	ND	-	216	ND	ND	ND	ND	ND	ND	ND	144
WS24-36	0-4ft	June 13, 2024	ND	-	259	ND	ND	ND	ND	ND	ND	ND	48
WS24-37	1-4ft	June 13, 2024	ND	-	148	ND	ND	ND	ND	ND	ND	ND	48
WS24-38	1-4ft	June 13, 2024	ND	-	187	ND	ND	ND	ND	ND	ND	ND	192
Backfill Spt Composite Samples													
Backfill-01	0ft	June 28, 2024	ND	-	80	ND	ND	ND	ND	ND	ND	ND	64
Backfill-02	0ft	June 28, 2024	ND	-	95	ND	ND	ND	ND	ND	ND	ND	32
Backfill-03	0ft	June 28, 2024	ND	-	51	ND	ND	ND	ND	ND	ND	ND	64

"ND" Not Detected at the Reporting Limit
 "-" indicates not analyzed/assessed

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

"ND" Not Detected at the Reporting Limit
 "-" indicates not analyzed/assessed

Bold/Green shaded exceeds NMOCD Reclamation Criteria (off-pad)



APPENDIX A - NMOCD C-141 Report

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2307356662
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Silverback Operating	OGRID 330968
Contact Name Mark Ritchie	Contact Telephone 210-874-2406
Contact email mritchie@silverbackexp.com	Incident # (assigned by OCD)
Contact mailing address 108 S. 4th st Artesia, NM 88211	

Location of Release Source

Latitude 32.721378 Longitude -104.368495
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dayton Water Recycle	Site Type Produced Water Recycle Facility
Date Release Discovered 2/21/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	27	18S	26E	Eddy

Surface Owner: State Federal Tribal Private (Name: Silverback Operating)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Recycled Water and Fresh Water	Volume/Weight Released (provide units) 2312 bbls	Volume/Weight Recovered (provide units) 0 bbls

Cause of Release Third party personnel removed a meter from lay-flat line during pigging operations which left the end of the line being pigged open which resulted in the release.



Volume Justification

This form is to be used to convey justification of spill volumes in the event of a release. Clearly indicate by calculations or description in the space provided below.

Justification:

Surface Area, sqft	77077
Estimated Depth, in	2
Estimated Depth, ft	0.166667
Calculated Volume, cu. ft	12846.17
cu. ft to bbl	0.18
Calculated Volume, bbl	2312.31



Approved by: Mark Ritchie

Date: 3/14/2023

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 197096

CONDITIONS

Operator: Silverback Operating II, LLC 19707 IH10 West, Suite 201 San Antonio, TX 78256	OGRID: 330968
	Action Number: 197096
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/15/2023

APPENDIX B – Closure Criteria Research Documentation

Closure Criteria Determination			
Site Name: Dayton Recycle Release			
Spill Coordinates: 32.72119, -104.36827		X: 559199	Y: 3620555
Table 1. Closure Criteria Determination			
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	85	feet
	Distance between release and nearest DTGW reference	1,138	feet
		0.22	miles
Date of nearest DTGW reference measurement		January 20, 2013	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	7,205	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	10,662	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,888	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	1,138	feet
	ii) Within 1000 feet of any fresh water well or spring	1,888	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	26,752	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	20,476	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	18,171	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	7,266	feet
11	Soil Type	RA: Reagan loam	
12	Ecological Classification	R070BC007NM - Loamy	
13	Geology	Qp- Piedmont alluvial deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

Dayton Recycle

1138 ft to well

Appraisal Group

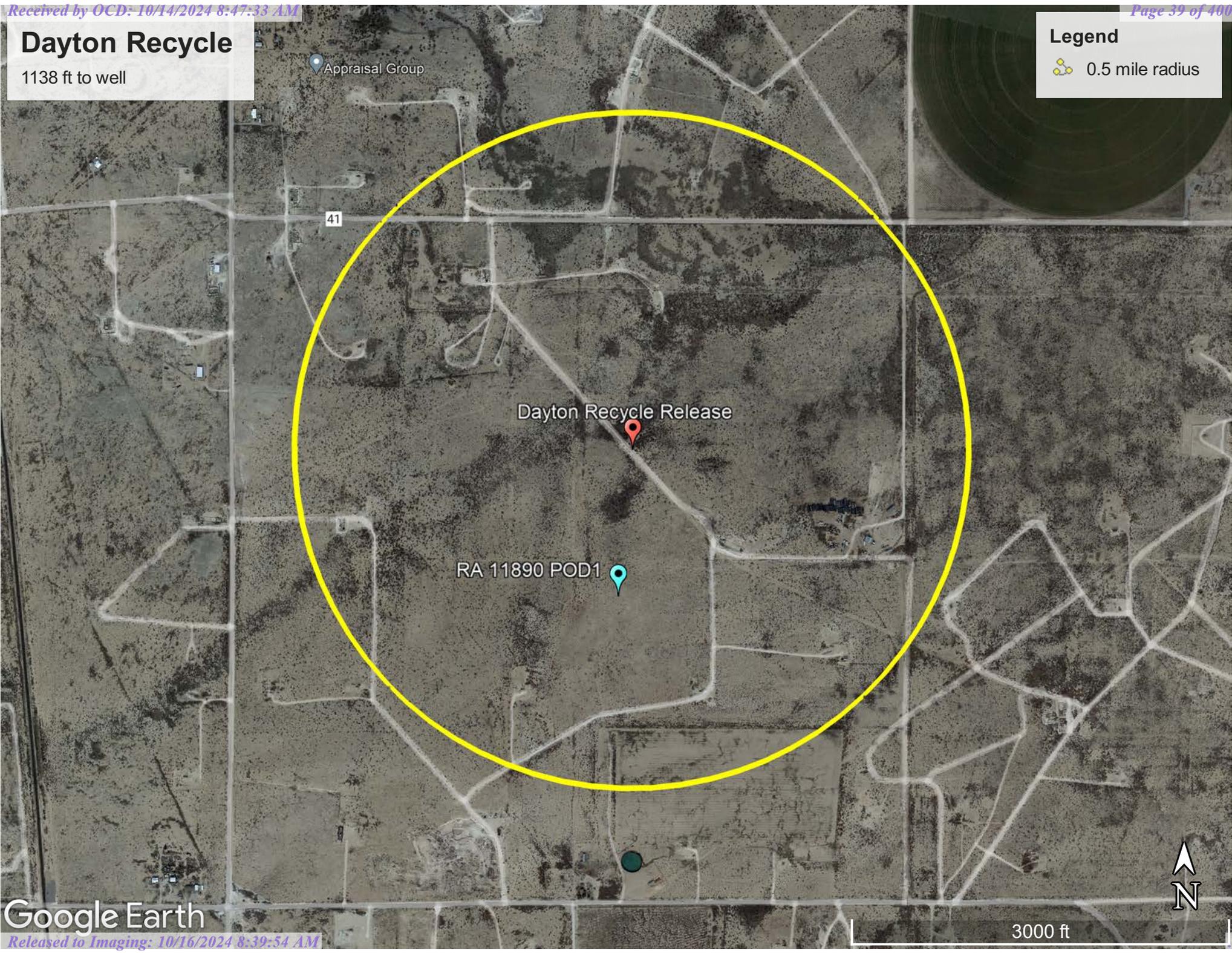
Legend

0.5 mile radius

41

Dayton Recycle Release

RA 11890 POD1



RA 03598	RA	ED	1	3	2	22	18S	26E	559154	3622198*		1643	1815			
RA 09466	RA	ED	3	3	1	22	18S	26E	558353	3621996*		1670	160	70	90	
RA 03340	RA	ED		3	1	22	18S	26E	558454	3622097*		1712	100	60	40	
RA 03580	RA	ED		3	1	22	18S	26E	558454	3622097*		1712	1700			
RA 04287	RA	ED	1	2	4	21	18S	26E	557951	3621792*		1757	170	140	30	
RA 01144 -S	RA	CH		3	1	23	18S	26E	560055	3622102*		1767	809			
RA 09763	RA	ED	4	1	4	21	18S	26E	557748	3621592*		1783	240	140	100	
RA 04022	RA	CH		2	1	35	18S	26E	560465	3619281*		1796	520			
RA 09874	RA	ED		2	1	35	18S	26E	560465	3619281*		1796	150			
RA 01296 CLW229885	O	RA	ED	1	3	1	23	18S	26E	559954	3622201*		1810	180	70	110
RA 04018	RA	CH	3	3	4	26	18S	26E	560762	3619581*		1841	250			
RA 07242 EXP	RA	ED		3	4	26	18S	26E	560863	3619682*		1879	102	55	47	
RA 07243 EXP	RA	ED		3	4	26	18S	26E	560863	3619682*		1879	110	50	60	
RA 07219	RA	ED			4	26	18S	26E	561064	3619883*		1982	110	50	60	
RA 02786	RA	CH	1	2	1	28	18S	26E	557148	3620987*		2095	250	60	190	
RA 11784 POD1	RA	ED	1	2	2	22	18S	26E	559480	3622632		2096	154	98	56	
RA 03599	RA	ED	2	1	1	22	18S	26E	558552	3622599*		2143	1765			
RA 06102	RA	ED				21	18S	26E	557447	3621893*		2204	202	136	66	
RA 01703 REPAR	RA	ED		1	3	34	18S	26E	558468	3618471*		2208	735			
RA 04004	RA	ED	3	2	2	21	18S	26E	557948	3622399*		2228	140			
RA 02627	RA	ED	1	2	2	35	18S	26E	561169	3619382*		2292	75	40	35	
RA 01703	RA	ED	3	1	3	34	18S	26E	558367	3618370*		2338	735			
RA 01703 CLW	RA	ED	3	1	3	34	18S	26E	558367	3618370*		2338	871			
RA 01703 REPAR 2	RA	ED	3	1	3	34	18S	26E	558367	3618370*		2338	754	70	684	
RA 01858	RA	ED	3	1	3	34	18S	26E	558367	3618370*		2338	735			
RA 02804	RA	CH	3	1	3	34	18S	26E	558367	3618370		2338	750			

RA 02804 POD2	RA	ED	3	1	3	34	18S	26E	558425	3618324		2360	200	168	32
RA 08976	RA	ED	2	3	3	21	18S	26E	556943	3621389*		2405	225	120	105
RA 13268	RA	ED	2	2	3	35	18S	26E	560556	3618499		2463	185	60	125
RA 06029	RA	ED	3	3	21	18S	26E	556844	3621290*		2466	183	140	43	
RA 06979	RA	ED	1	1	25	18S	26E	561660	3620896*		2484	100			
RA 12706 POD1	RA	ED	4	1	3	21	18S	26E	556871	3621549		2531	210	140	70
RA 00773	RA	ED	1	2	23	18S	26E	560856	3622508*		2561				
RA 00774	RA	ED	1	2	23	18S	26E	560856	3622508*		2561				
RA 00775	RA	ED	1	2	23	18S	26E	560856	3622508*		2561	900			
RA 11480 POD1	RA	ED	2	1	3	21	18S	26E	556958	3621808		2567	199	175	24
RA 01296 S3	RA	ED	1	3	3	15	18S	26E	558351	3623003*		2590	230	70	160
RA 01296 S5	RA	ED	1	3	3	15	18S	26E	558351	3623003*		2590	223	35	188
RA 01446 CLW	RA	ED	1	3	3	15	18S	26E	558351	3623003*		2590	165	42	123
RA 02800	RA	ED	1	3	3	15	18S	26E	558351	3623003*		2590	102	30	72
RA 09374	RA	ED	2	1	1	25	18S	26E	561759	3620995*		2597	101		
RA 12897 POD1	RA	ED	1	4	1	21	18S	26E	557046	3622199		2708	180	120	60
RA 01474 REPAR	RA	ED	1	1	1	33	18S	26E	556754	3619377*		2714	200		
RA 01474 SUP	RA	ED	1	1	1	33	18S	26E	556754	3619377*		2714	210		
RA 07394	RA	ED	3	3	3	34	18S	26E	558369	3617968*		2717	166	100	66
RA 01474 CLW	RA	ED	2	3	1	33	18S	26E	556956	3618975*		2743	225		
RA 09207	RA	ED	2	4	3	35	18S	26E	560574	3618175*		2748	140	50	90
RA 09208	RA	ED	2	4	3	35	18S	26E	560574	3618175*		2748	160	50	110
RA 09209	RA	ED	2	4	3	35	18S	26E	560574	3618175*		2748	105	45	60
RA 09210	RA	ED	2	4	3	35	18S	26E	560574	3618175*		2748	140	50	90
RA 01884	RA	ED	1	1	3	21	18S	26E	556741	3621792*		2751	127		
RA 09286	RA	ED	2	4	4	29	18S	26E	556550	3619778*		2760	300		

RA 04309	RA	ED	1	21	18S	26E	557041	3622297*		2773	180					
RA 13107 POD1	RA	ED	4	2	4	20	18S	26E	556595	3621516		2776	185	166	19	
RA 05241	RA	ED	3	4	16	18S	26E	557644	3622903*		2816	200	100	100		
RA 01446	RA	ED	1	3	15	18S	26E	558450	3623307*		2851	175				
RA 01474	RA	ED	4	3	1	33	18S	26E	556956	3618775*		2863	300			
RA 03900	RA	ED	1	3	1	24	18S	26E	561557	3622206*		2878	845	90	755	
RA 08812 REPAR	RA	ED	4	4	29	18S	26E	556451	3619679*		2884	350	150	200		
RA 09211	RA	ED	4	4	3	35	18S	26E	560574	3617975*		2923	100	45	55	
RA 09212	RA	ED	4	4	3	35	18S	26E	560574	3617975*		2923	120	45	75	
RA 09213	RA	ED	4	4	3	35	18S	26E	560574	3617975*		2923	120	45	75	
RA 09214	RA	ED	4	4	3	35	18S	26E	560574	3617975*		2923	100	45	55	
RA 12483 POD5	RA	ED	1	4	4	14	18S	26E	561126	3622920		3050	59	53	6	
RA 12483 POD4	RA	ED	1	4	4	14	18S	26E	561086	3622959		3056	60	48	12	
RA 12483 POD1	RA	ED	1	4	4	14	18S	26E	561070	3623006		3083	72	55	17	
RA 12483 POD2	RA	ED	1	4	4	14	18S	26E	561084	3622999		3086	62	51	11	
RA 12483 POD3	RA	ED	1	4	4	14	18S	26E	561120	3623003		3111	58	47	11	
L 04209 POD3	L	LE	2	2	2	04	19S	36E	560772	3617845		3132	162	72	90	
RA 12364 POD1	RA	ED	1	3	2	03	19S	26E	559177	3617411		3143	195	155	40	
RA 03499	RA	ED	3	2	15	18S	26E	559251	3623715*		3160	616	40	576		
RA 03499 CLW261762	O	RA	ED	3	2	15	18S	26E	559251	3623715*		3160	616	40	576	
RA 03585	RA	ED	4	1	4	14	18S	26E	560955	3623216*		3188	1849			
RA 11874 POD1	R	RA	ED	3	1	2	02	19S	26E	560707	3617638		3283	140	40	100
RA 11874 POD2	RA	ED	3	1	2	02	19S	26E	560710	3617630		3292	125	58	67	
RA 11179 POD2	RA	ED	4	4	2	16	18S	26E	558180	3623696		3302	71	60	11	
RA 03750	RA	ED	3	4	24	18S	26E	562465	3621299*		3349	110	35	75		
RA 11179 POD1	RA	ED	2	3	2	16	18S	26E	558172	3623807		3410	74	60	14	

RA 02132 B		RA	ED	1	2	1	24	18S	26E	561958	3622611*		3440	166		
RA 01343 CLW	O	RA	CH	1	2	4	14	18S	26E	561157	3623417*		3467	150	23	127
RA 07526		RA	ED		4	2	04	19S	26E	558076	3617273*		3468	140	95	45
RA 03618		RA	ED		3	2	20	18S	26E	556037	3622093*		3516	1838		
RA 07562		RA	ED	4	4	2	04	19S	26E	558175	3617172*		3534	161	125	36
RA 11682 POD2		RA	ED	4	2	2	16	18S	26E	558236	3623959		3537	98		
RA 12698 POD1		RA	ED	4	4	1	02	19S	26E	560619	3617198		3644	140	90	50
RA 04160		RA	ED	1	4	1	29	18S	26E	555542	3620580*		3657	160	100	60
RA 12572 POD1		RA	ED	4	4	1	02	19S	26E	560592	3617171		3659	159		
RA 12740 POD1		RA	ED	2	3	2	14	18S	26E	560985	3623759		3668	150	86	64
RA 02389		RA	ED	1	2	2	15	18S	26E	559551	3624221*		3682	209		
RA 06431		RA	ED	1	1	1	04	19S	26E	556765	3617775*		3695	200		
RA 03600		RA	ED	2	3	2	14	18S	26E	560956	3623821*		3708	955		
RA 03731		RA	ED	1	1	1	14	18S	26E	559953	3624223*		3744	120	30	90
RA 04283		RA	LE	1	4	3	20	18S	26E	555538	3621384*		3753	158	125	33
RA 07324		RA	ED		2	4	04	19S	26E	558080	3616870*		3851	150	105	45
RA 03421		RA	ED	1	2	2	16	18S	26E	557942	3624213*		3867	665	130	535
RA 12771 POD1		RA	ED	1	1	4	04	19S	26E	557469	3617067		3893	250	150	100
RA 10246		RA	ED	3	4	2	02	19S	26E	561189	3617174*		3923	220	50	170
RA 03409		RA	ED	1	4	2	24	18S	26E	562763	3622210*		3929	175	18	157
RA 08875		RA	ED	1	2	2	05	19S	26E	556362	3617773*		3973	220	150	70
RA 06995		RA	ED		1	4	04	19S	26E	557679	3616869*		3987	150	100	50
RA 12238 POD1		RA	ED	2	4	4	04	19S	26E	558180	3616638		4046	171	103	68
RA 00011	O	RA	ED		3	3	11	18S	26E	560054	3624529*		4064	1100		
RA 00011 A		RA	ED		3	3	11	18S	26E	560054	3624529*		4064	1100		
RA 01171		RA	ED	1	3	4	10	18S	26E	559149	3624622*		4067	864	8	856

RA 03639	RA	ED	4	4	3	11	18S	26E	560555	3624429*		4104	1710			
RA 08097	RA	ED	3	2	2	05	19S	26E	556362	3617573*		4116	210	120	90	
RA 03326	RA	ED	4	4	09	18S	26E	558041	3624518*		4128	75	40	35		
RA 11036 POD1	RA	ED	2	4	2	05	19S	26E	556567	3617370*		4131	210	110	100	
RA 11733 POD1	RA	ED	2	1	2	05	19S	26E	556153	3617740		4147	210	143	67	
RA 00010	RA	ED	1	3	3	10	18S	26E	558344	3624616*		4149	863	32	831	
RA 00010 A	RA	ED	1	3	3	10	18S	26E	558344	3624616*		4149	863	32	831	
RA 04136	RA	ED	1	1	32	18S	26E	555246	3619273*		4155	152	90	62		
RA 00012 A	RA	ED	3	3	4	11	18S	26E	560757	3624430*		4176	600			
RA 11682 POD5	RA	ED	4	2	1	16	18S	26E	558214	3624632		4194	66	51	15	
RA 11633 POD1	RA	ED	2	1	2	05	19S	26E	556059	3617756		4206	180	130	50	
RA 07260	RA	ED	1	2	05	19S	26E	556060	3617672*		4262	198	100	98		
RA 07053	RA	ED	4	2	05	19S	26E	556468	3617271*		4271	135	90	45		
RA 07142	RA	ED	4	2	05	19S	26E	556468	3617271*		4271	217	98	119		
RA 07448	RA	ED	4	2	05	19S	26E	556468	3617271*		4271	207	105	102		
RA 09276	RA	ED	4	2	05	19S	26E	556468	3617271*		4271	265	100	165		
RA 10318	RA	ED	4	2	05	19S	26E	556468	3617271*		4271	240	100	140		
RA 00012	O	RA	ED	3	4	11	18S	26E	560858	3624531*		4308	600			
RA 03596	RA	ED	3	4	11	18S	26E	560858	3624531*		4308	1736				
RA 01230 CLW	O	RA	ED	1	1	3	04	19S	26E	556774	3616966*		4331	705		
RA 03168	RA	ED	1	1	3	04	19S	26E	556774	3616966*		4331	150	70	80	
RA 03181 REPAR-3	O	RA	ED	1	1	4	17	18S	26E	555929	3623401*		4334	309	100	209
RA 03181 SUP	O	RA	ED	1	1	4	17	18S	26E	555929	3623401*		4334	290	60	230
RA 00010 CLW202760	O	RA	ED	3	1	3	10	18S	26E	558343	3624821*		4350	863	32	831
RA 00010 CLW202772	O	RA	ED	3	1	3	10	18S	26E	558343	3624821*		4350	863	32	831
RA 00010 CLW202817	O	RA	ED	3	1	3	10	18S	26E	558343	3624821*		4350	863	32	831

RA 00010 CLW202829	O	RA	ED	3	1	3	10	18S	26E	558343	3624821*		4350	863	32	831
RA 02877		RA	ED	3	1	3	10	18S	26E	558343	3624821*		4350	150		
RA 03181		RA	ED	4	2	3	17	18S	26E	555726	3623199*		4364	200		
RA 09549		RA	ED	1	1	2	10	19S	26E	559195	3616159*		4396	189	90	99
RA 12324 POD1		RA	ED	3	4	2	05	19S	26E	556339	3617207		4403	235	135	100
RA 08098		RA	ED	3	1	2	05	19S	26E	555959	3617571*		4404	215	100	115
RA 08315		RA	ED	3	1	2	05	19S	26E	555959	3617571*		4404	195	100	95
RA 01215 CLW		RA	ED	2	1	1	10	19S	26E	558590	3616159*		4438	880	50	830
RA 01215 CLWPU		RA	ED	2	1	1	10	19S	26E	558590	3616159*		4438	1000		
RA 03118		RA	ED	2	1	1	10	19S	26E	558590	3616159*		4438	195		
RA 03756		RA	ED	1	1	4	10	18S	26E	559147	3625027*		4472	148	55	93
RA 01230 #2	O	RA	ED	3	1	3	04	19S	26E	556774	3616766*		4498			
RA 01230 REPAR	O	RA	ED	3	1	3	04	19S	26E	556774	3616766*		4498	800		
RA 03181 COMB	O	RA	ED		2	3	17	18S	26E	555627	3623300*		4504	229	55	174
RA 09709		RA	ED		2	2	17	18S	26E	556428	3624113*		4509	235	110	125
RA 12627 POD1		RA	ED	1	2	4	05	19S	26E	556415	3617007		4509	220	100	120
RA 02013		RA	ED	2	2	2	17	18S	26E	556527	3624212*		4529	136		
RA 07165		RA	ED		3	2	05	19S	26E	556065	3617269*		4541	193	110	83
RA 07508		RA	ED		3	2	05	19S	26E	556065	3617269*		4541	185	150	35
RA 10133		RA	ED		3	2	05	19S	26E	556065	3617269*		4541	177	138	39
RA 01144		RA	ED	1	1	3	10	18S	26E	558343	3625021*		4547	697		
RA 03564		RA	ED		1	1	10	19S	26E	558491	3616060*		4550	200	70	130
RA 03634		RA	ED	3	1	4	11	18S	26E	560757	3624835*		4554	1797		
RA 12265 POD1		RA	ED	2	2	2	17	18S	26E	556509	3624232		4555	330	185	145
RA 07239		RA	ED		2	4	05	19S	26E	556472	3616866*		4587	191	100	91
RA 07124		RA	CH	4	2	4	05	19S	26E	556571	3616765*		4612	133	94	39

RA 01462 #3	RA	ED	3	3	09	18S	26E	556830	3624520*		4618	230				
RA 06131	RA	ED	3	3	09	18S	26E	556830	3624520*		4618	225	90	135		
RA 08557	RA	ED	2	1	4	05	19S	26E	556169	3616964*		4698	232	100	132	
RA 03789	RA	ED	4	3	1	10	18S	26E	558541	3625227*		4717	114	50	64	
RA 12984 POD1	RA	ED	4	4	2	09	18S	26E	558209	3625197		4746	85	69	16	
RA 11682 POD3	RA	ED	3	4	2	09	18S	26E	557934	3625136		4752	70	54	16	
RA 03382	RA	ED	1	3	3	09	18S	26E	556729	3624619*		4755	129			
RA 04272	RA	ED	2	4	4	05	19S	26E	556576	3616561*		4778	102	58	44	
RA 07066 POD2	RA	ED	4	4	1	05	19S	26E	555761	3617166*		4827	150			
RA 06986	RA	ED	1	4	05	19S	26E	556070	3616865*		4838	195	165	30		
RA 07172	RA	ED	1	4	05	19S	26E	556070	3616865*		4838	210	95	115		
RA 04479	RA	ED	2	4	4	08	18S	26E	556525	3624616*		4862	215	120	95	
RA 10386	R	RA	ED	2	4	4	08	18S	26E	556525	3624616*		4862	210	70	140
RA 08567	RA	ED	1	4	4	05	19S	26E	556376	3616561*		4891	264	80	184	
RA 02048	RA	ED				09	18S	26E	557433	3625123*		4897				
RA 06129	RA	ED	4	4	05	19S	26E	556477	3616462*		4915	125	190	-65		
RA 05162	RA	ED	3	1	3	09	18S	26E	556727	3624823*		4932	220	120	100	
RA 04784	RA	ED				30	18S	26E	554252	3620259*		4955	205	190	15	
RA 01462	RA	ED	1	3	09	18S	26E	556828	3624924*		4970	163				
RA 07066	RA	ED	3	4	1	05	19S	26E	555561	3617166*		4972	202	100	102	
RA 03049	RA	ED	1	4	4	08	18S	26E	556325	3624616*		4974	129	60	69	

Average Depth to Water: **86 feet**
 Minimum Depth: **8 feet**
 Maximum Depth: **190 feet**

Record Count: 195

UTMNAD83 Radius Search (in meters):

Easting (X): 559199

Northing (Y): 3620555.15

Radius: 5000

***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.

4/18/23 3:17 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



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
RA 11890	POD1	1	1	4	28	18S	26E	559161	3620210

x

Driller License: 1064 **Driller Company:** DELFORD W. MARTIN
Driller Name: MARTIN, DELFORD
Drill Start Date: 01/12/2013 **Drill Finish Date:** 01/20/2013 **Plug Date:**
Log File Date: 01/31/2013 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 10 GPM
Casing Size: 5.50 **Depth Well:** 175 feet **Depth Water:** 85 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	144	175	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	95	175

x

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.

4/18/23 3:18 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2013 JAN 30 A 12 13

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) RA-11890			OSE FILE NUMBER(S) RA-11890			
	WELL OWNER NAME(S) Guillermo Camacho			PHONE (OPTIONAL) 375 365-7894			
	WELL OWNER MAILING ADDRESS PO Box 1514			CITY STATE ZIP Artesia NM 88211			
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE	32	43	509	* DATUM REQUIRED: WGS 84		
	LONGITUDE	104	22	732			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1064	NAME OF LICENSED DRILLER Delford Martin			NAME OF WELL DRILLING COMPANY Martin Waterwell Drllg			
	DRILLING STARTED 1-12-13	DRILLING ENDED 1-20-13	DEPTH OF COMPLETED WELL (FT) 175	BORE HOLE DEPTH (FT) 175	DEPTH WATER FIRST ENCOUNTERED (FT) 144			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 85			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8
	95	175	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	175	7 7/8	3/8 gravel	54	dropped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER RA-11890	POD NUMBER Dam	TRN NUMBER SI 8081
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Locator Tool Report

General Information:

Application ID:29 Date: 02-07-2013 Time: 09:35:04

WR File Number: RA
Purpose: POINT OF DIVERSION

Applicant First Name: GUILLERMO
Applicant Last Name: CAMACHO

GW Basin: ROSWELL ARTESIAN
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of NW 1/4 of NW 1/4 of SE 1/4 of Section 27, Township 18S, Range 26E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 43 Minutes 5.1 Seconds N
Longitude: 104 Degrees 22 Minutes 7.3 Seconds W

Universal Transverse Mercator Zone: 13N

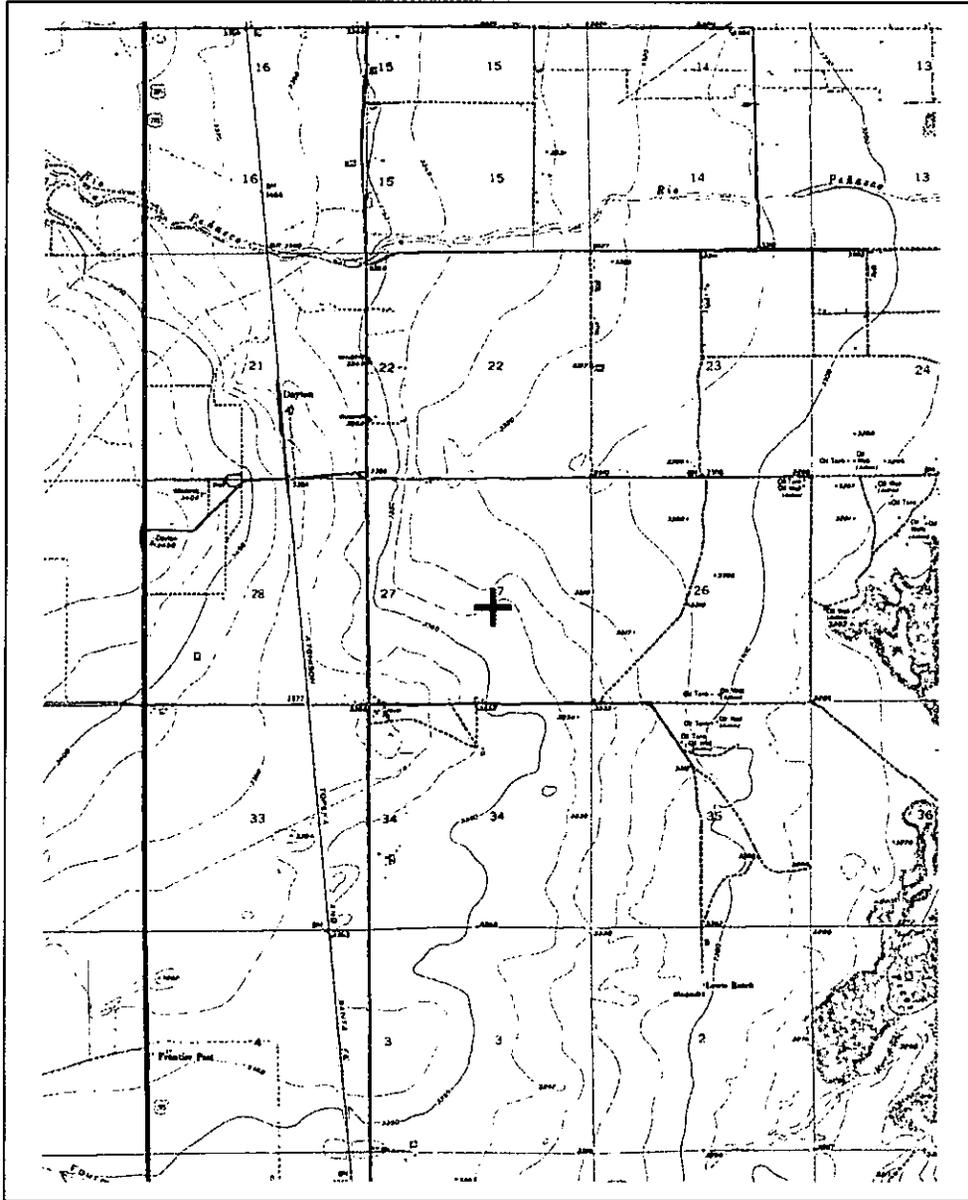
NAD 1983(92) (Meters) N: 3,620,210 E: 559,161
NAD 1983(92) (Survey Feet) N: 11,877,306 E: 1,834,513
NAD 1927 (Meters) N: 3,620,008 E: 559,211
NAD 1927 (Survey Feet) N: 11,876,642 E: 1,834,677

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) N: 190,492 E: 161,685
NAD 1983(92) (Survey Feet) N: 624,971 E: 530,461
NAD 1927 (Meters) N: 190,473 E: 149,133
NAD 1927 (Survey Feet) N: 624,909 E: 489,282

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: RA

Scale: 1:54,512

Northing/Easting: UTM83(92) (Meter): N: 3,620,210

E: 559,161

Northing/Easting: SPCS83(92) (Feet): N: 624,971

E: 530,461

GW Basin: Roswell Artesian



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

1. GENERAL AND WELL LOCATION	OSB POD NUMBER (WELL NUMBER) RA-11890 Guillermo Camacho			OSB FILE NUMBER 32 A 12 18 RA-11890		
	WELL OWNER NAME(S) Guillermo Camacho			PHONE (OPTIONAL) 575 365-7894		
	WELL OWNER MAILING ADDRESS PO Box 1514			CITY STATE ZIP Artesia NM 88211		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 43	SECONDS 509	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 104	22	732	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1064	NAME OF LICENSED DRILLER Delford Martin			NAME OF WELL DRILLING COMPANY Martin Waterwell Drilling			
	DRILLING STARTED 1-12-13	DRILLING ENDED 1-20-13	DEPTH OF COMPLETED WELL (FT) 175	BORE HOLE DEPTH (FT) 175	DEPTH WATER FIRST ENCOUNTERED (FT) 144			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 85			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8
	95	175	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	175	7 7/8	3/8 gravel	54	dropped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER RA-11890	POD NUMBER Dom	TRN NUMBER 518081
-----------------------------	-----------------------	--------------------------

Locator Tool Report

General Information:

Application ID:29 Date: 02-07-2013 Time: 09:35:04

WR File Number: RA
Purpose: POINT OF DIVERSION

Applicant First Name: GUILLERMO
Applicant Last Name: CAMACHO

GW Basin: ROSWELL ARTESIAN
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of NW 1/4 of NW 1/4 of SE 1/4 of Section 27, Township 18S, Range 26E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 43 Minutes 5.1 Seconds N
Longitude: 104 Degrees 22 Minutes 7.3 Seconds W

Universal Transverse Mercator Zone: 13N

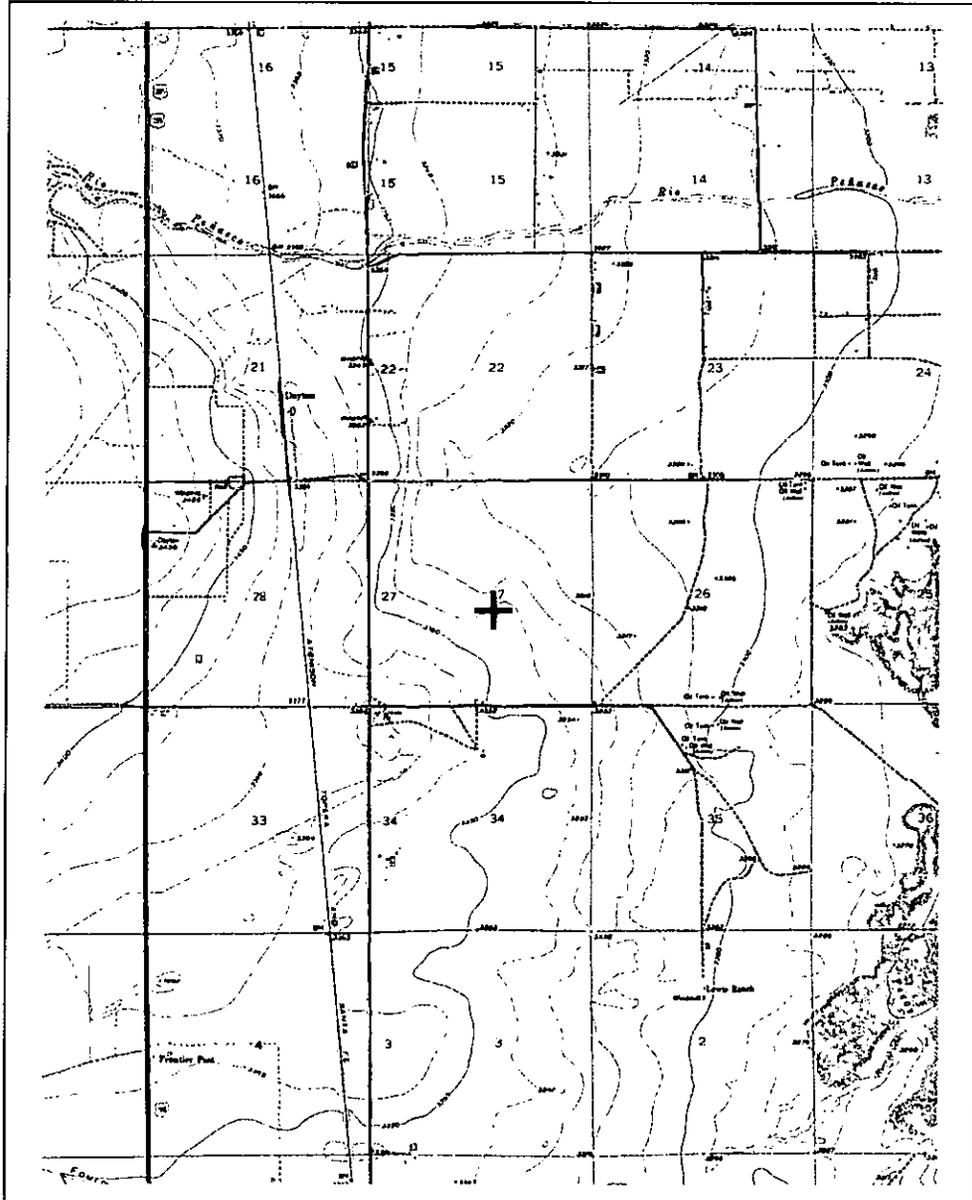
NAD 1983(92) (Meters)	N: 3,620,210	E: 559,161
NAD 1983(92) (Survey Feet)	N: 11,877,306	E: 1,834,513
NAD 1927 (Meters)	N: 3,620,008	E: 559,211
NAD 1927 (Survey Feet)	N: 11,876,642	E: 1,834,677

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 190,492	E: 161,685
NAD 1983(92) (Survey Feet)	N: 624,971	E: 530,461
NAD 1927 (Meters)	N: 190,473	E: 149,133
NAD 1927 (Survey Feet)	N: 624,909	E: 489,282

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: RA

Scale: 1:54,512

Northing/Easting: UTM83(92) (Meter): N: 3,620,210

E: 559,161

Northing/Easting: SPCS83(92) (Feet): N: 624,971

E: 530,461

GW Basin: Roswell Artesian



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2013 JAN 30 A 12 13

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) RA-11890			OSE FILE NUMBER(S) RA-11890			
	WELL OWNER NAME(S) Guillermo Camacho			PHONE (OPTIONAL) 575 365-7894			
	WELL OWNER MAILING ADDRESS PO Box 1514			CITY STATE ZIP Artesia NM 88211			
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE	32	43	509	* DATUM REQUIRED: WGS 84		
	LONGITUDE	104	22	732			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1064	NAME OF LICENSED DRILLER Delford Martin			NAME OF WELL DRILLING COMPANY Martin Waterwell Drllg			
	DRILLING STARTED 1-12-13	DRILLING ENDED 1-20-13	DEPTH OF COMPLETED WELL (FT) 175	BORE HOLE DEPTH (FT) 175	DEPTH WATER FIRST ENCOUNTERED (FT) 144			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 85			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0	95	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8	
95	175	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8	

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	175	7 7/8	3/8 gravel	54	dropped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER RA-11890	POD NUMBER Dam	TRN NUMBER SI 8081
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Locator Tool Report

General Information:

Application ID:29 Date: 02-07-2013 Time: 09:35:04

WR File Number: RA
Purpose: POINT OF DIVERSION

Applicant First Name: GUILLERMO
Applicant Last Name: CAMACHO

GW Basin: ROSWELL ARTESIAN
County: EDDY

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NE 1/4 of NW 1/4 of NW 1/4 of SE 1/4 of Section 27, Township 18S, Range 26E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 43 Minutes 5.1 Seconds N
Longitude: 104 Degrees 22 Minutes 7.3 Seconds W

Universal Transverse Mercator Zone: 13N

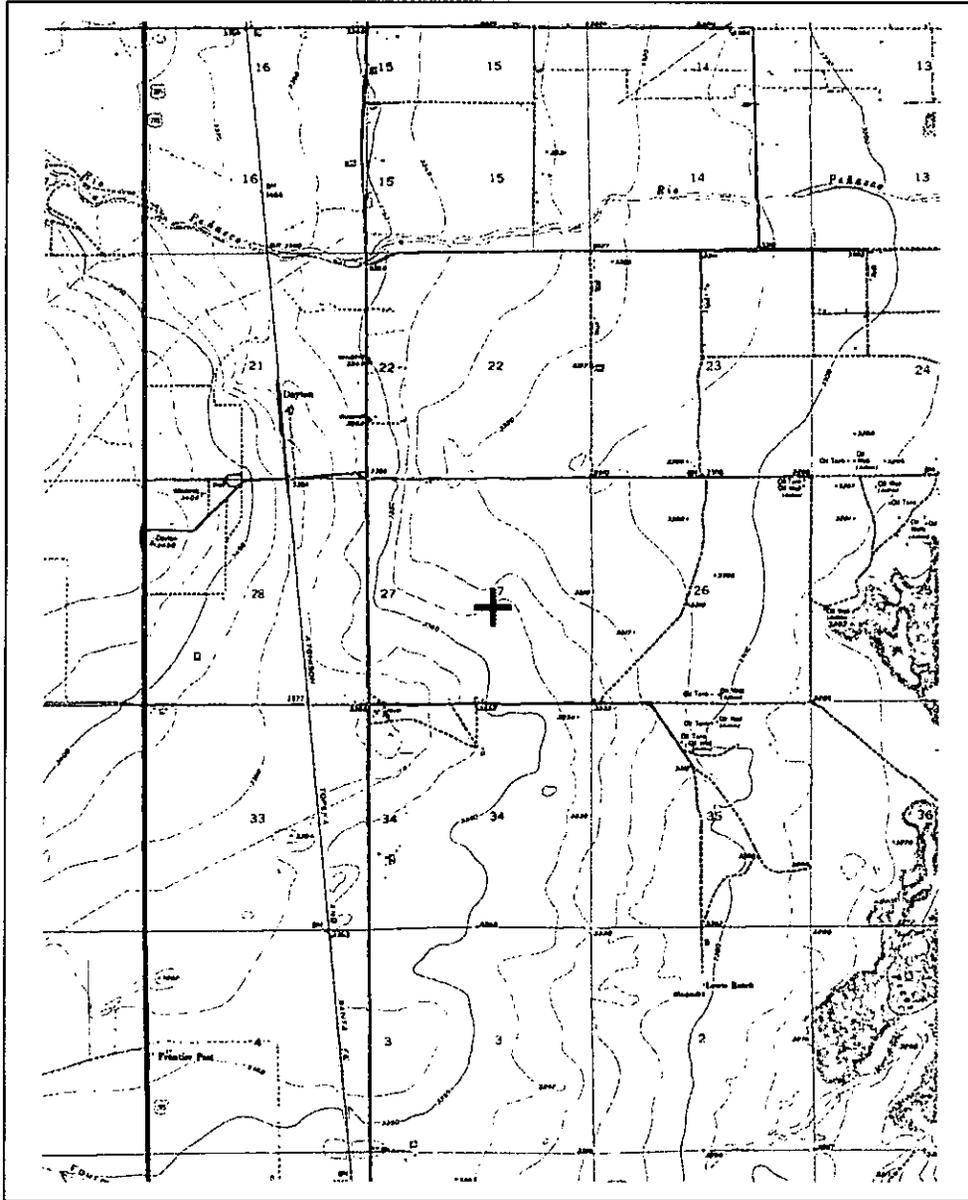
NAD 1983(92) (Meters) N: 3,620,210 E: 559,161
NAD 1983(92) (Survey Feet) N: 11,877,306 E: 1,834,513
NAD 1927 (Meters) N: 3,620,008 E: 559,211
NAD 1927 (Survey Feet) N: 11,876,642 E: 1,834,677

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) N: 190,492 E: 161,685
NAD 1983(92) (Survey Feet) N: 624,971 E: 530,461
NAD 1927 (Meters) N: 190,473 E: 149,133
NAD 1927 (Survey Feet) N: 624,909 E: 489,282

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: RA

Scale: 1:54,512

Northing/Easting: UTM83(92) (Meter): N: 3,620,210

E: 559,161

Northing/Easting: SPCS83(92) (Feet): N: 624,971

E: 530,461

GW Basin: Roswell Artesian



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

1. GENERAL AND WELL LOCATION	OSB POD NUMBER (WELL NUMBER) RA-11890 Guillermo Camacho			OSB FILE NUMBER 32 A 12 18 RA-11890		
	WELL OWNER NAME(S) Guillermo Camacho			PHONE (OPTIONAL) 575-365-7894		
	WELL OWNER MAILING ADDRESS P.O. Box 1514			CITY STATE ZIP Artesia NM 88211		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 43	SECONDS 509	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE 104	22	732	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

2. DRILLING & CASING INFORMATION	LICENSE NUMBER 1064	NAME OF LICENSED DRILLER Delford Martin			NAME OF WELL DRILLING COMPANY Martin Waterwell Drilling			
	DRILLING STARTED 1-12-13	DRILLING ENDED 1-20-13	DEPTH OF COMPLETED WELL (FT) 175	BORE HOLE DEPTH (FT) 175	DEPTH WATER FIRST ENCOUNTERED (FT) 144			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 85			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8
	95	175	7 7/8	5 1/2 PVC	Bell	5	1/4	1/8

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	175	7 7/8	3/8 gravel	54	dropped

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER RA-11890	POD NUMBER Dom	TRN NUMBER 518081
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Locator Tool Report

General Information:

Application ID:29 Date: 02-07-2013 Time: 09:35:04

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Purpose: POINT OF DIVERSION

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Applicant Last Name: CAMACHO

GW Basin: ROSWELL ARTESIAN
County: EDDY

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Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

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Coordinate System Details:

Geographic Coordinates:

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Longitude: 104 Degrees 22 Minutes 7.3 Seconds W

Universal Transverse Mercator Zone: 13N

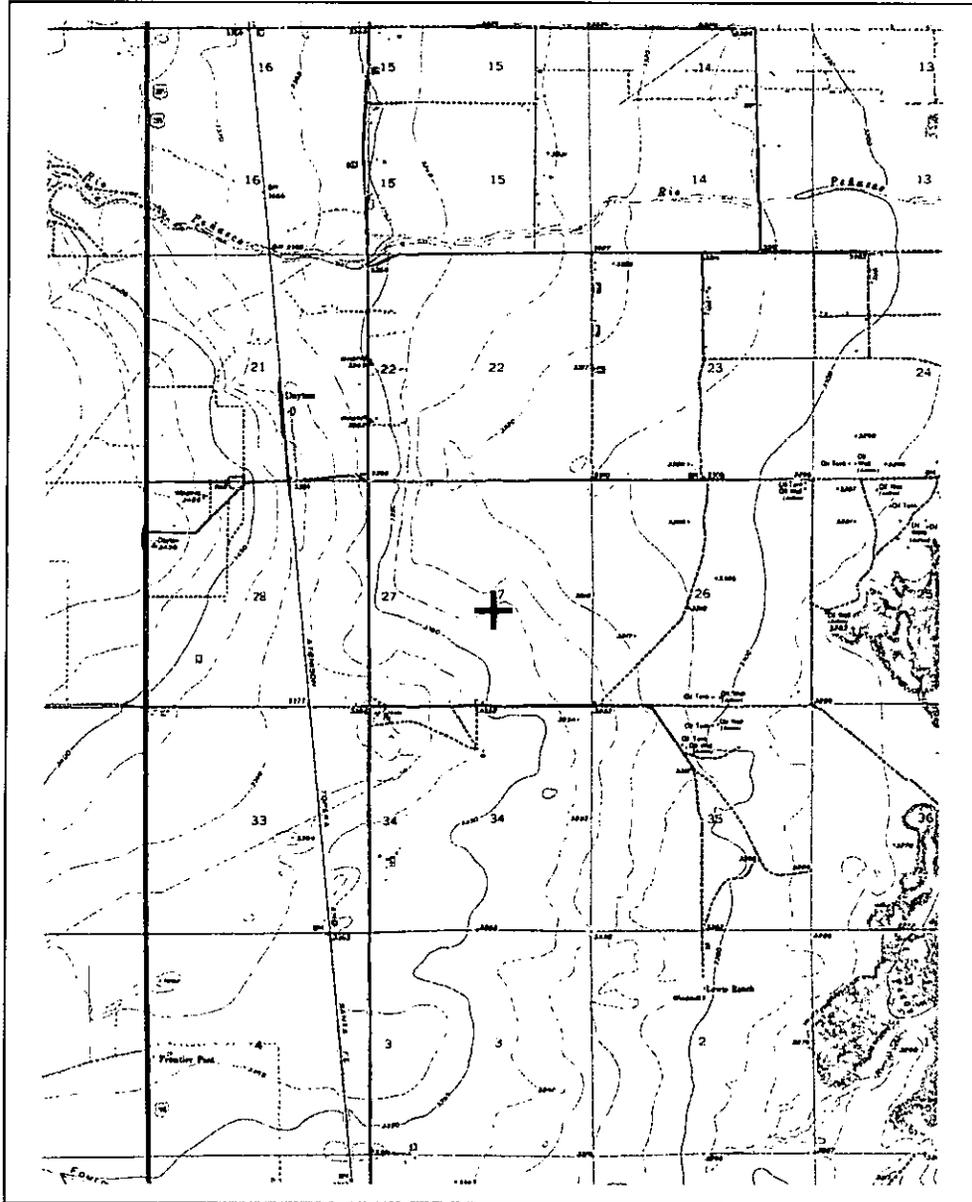
NAD 1983(92) (Meters)	N: 3,620,210	E: 559,161
NAD 1983(92) (Survey Feet)	N: 11,877,306	E: 1,834,513
NAD 1927 (Meters)	N: 3,620,008	E: 559,211
NAD 1927 (Survey Feet)	N: 11,876,642	E: 1,834,677

State Plane Coordinate System Zone: New Mexico East

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NAD 1983(92) (Survey Feet)	N: 624,971	E: 530,461
NAD 1927 (Meters)	N: 190,473	E: 149,133
NAD 1927 (Survey Feet)	N: 624,909	E: 489,282

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: RA

Scale: 1:54,512

Northing/Easting: UTM83(92) (Meter): N: 3,620,210

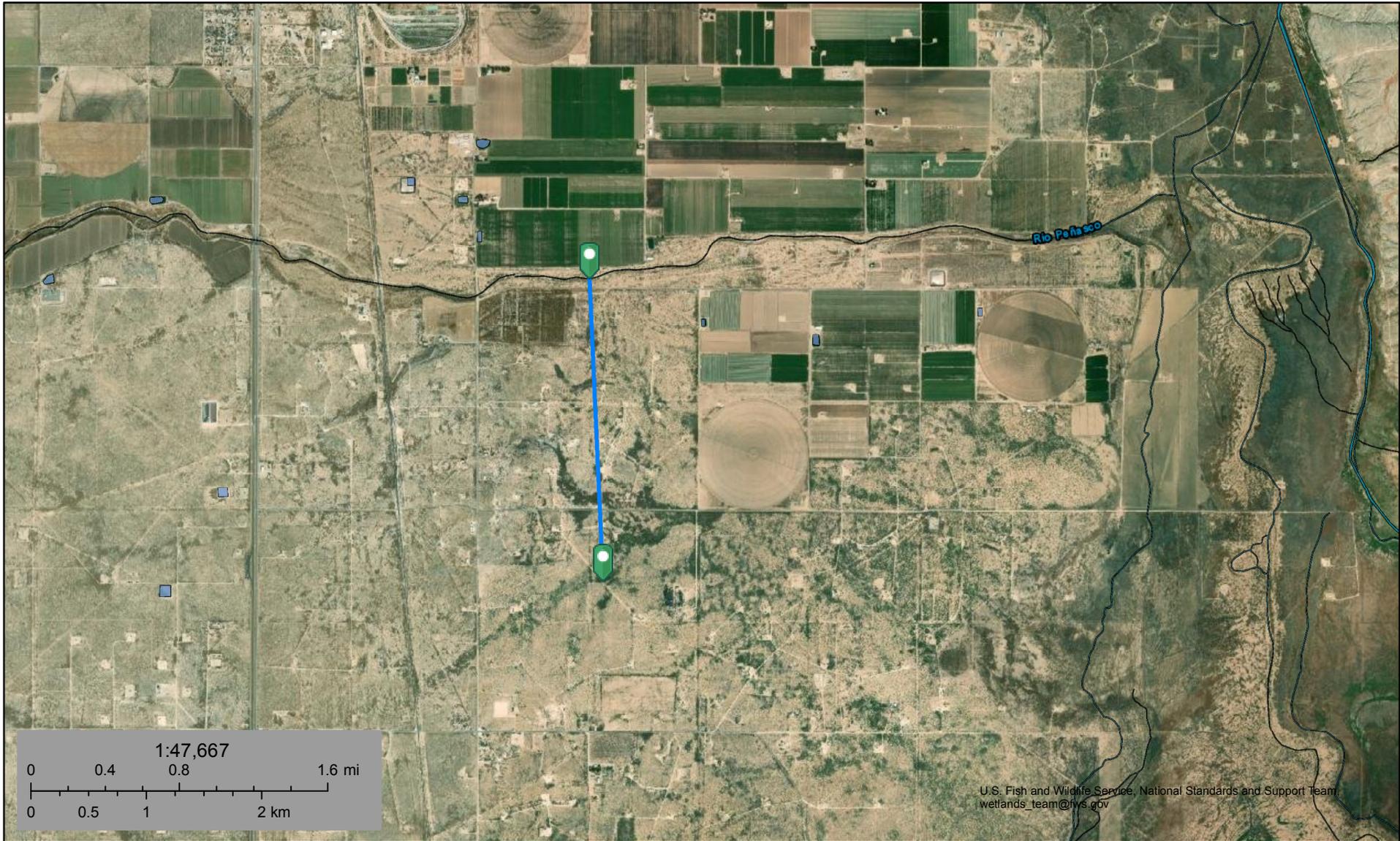
E: 559,161

Northing/Easting: SPCS83(92) (Feet): N: 624,971

E: 530,461

GW Basin: Roswell Artesian

Dayton Recycle Watercourse 7,205 ft



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

April 18, 2023

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | 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.



Dayton Recycle Lake 10,652 ft



April 18, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

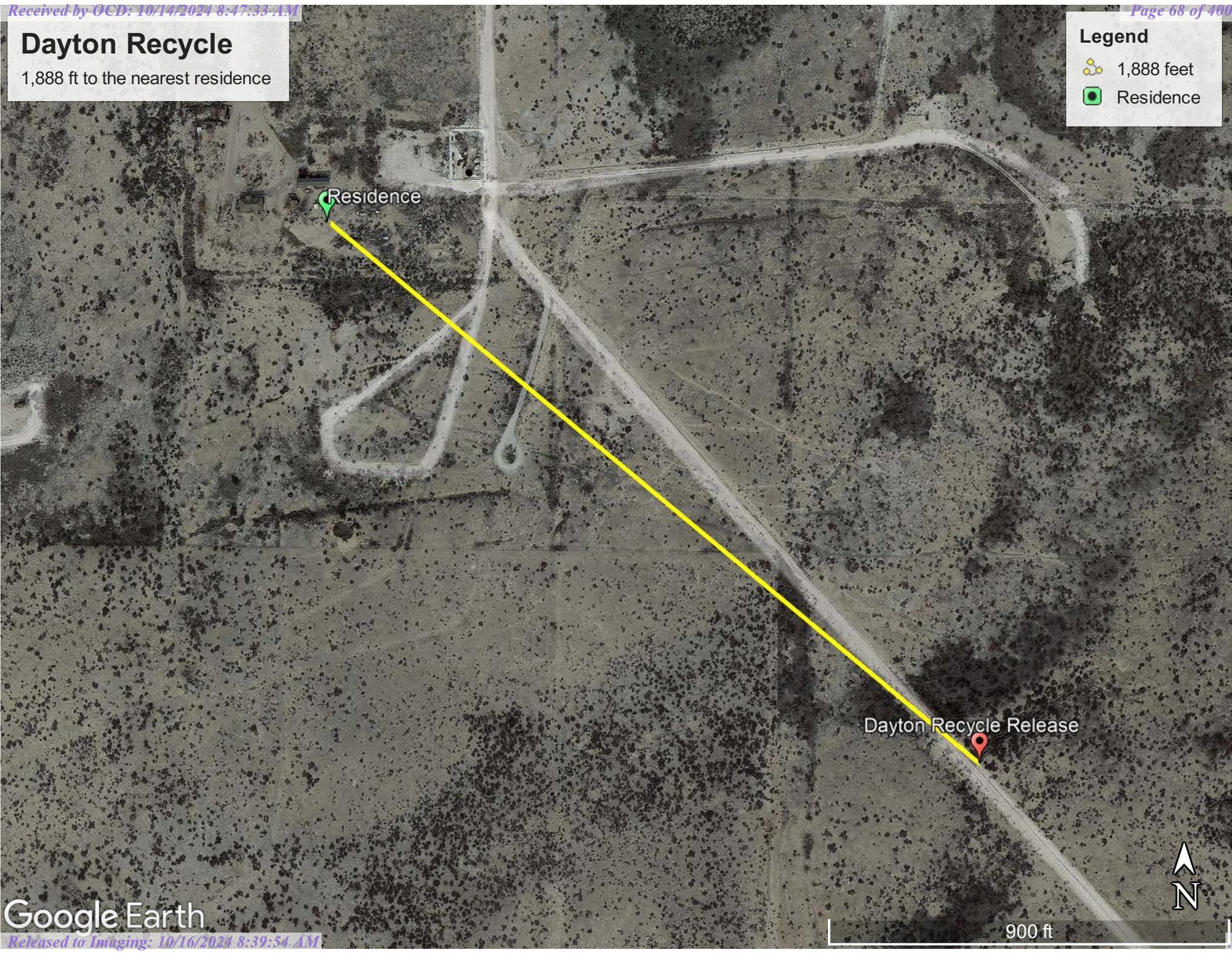
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Dayton Recycle

1,888 ft to the nearest residence

Legend

-  1,888 feet
-  Residence



Residence

Dayton Recycle Release



Dayton Recycle

1138 ft to well

Legend

 1,138 feet

Dayton Recycle Release

RA 11890 POD1

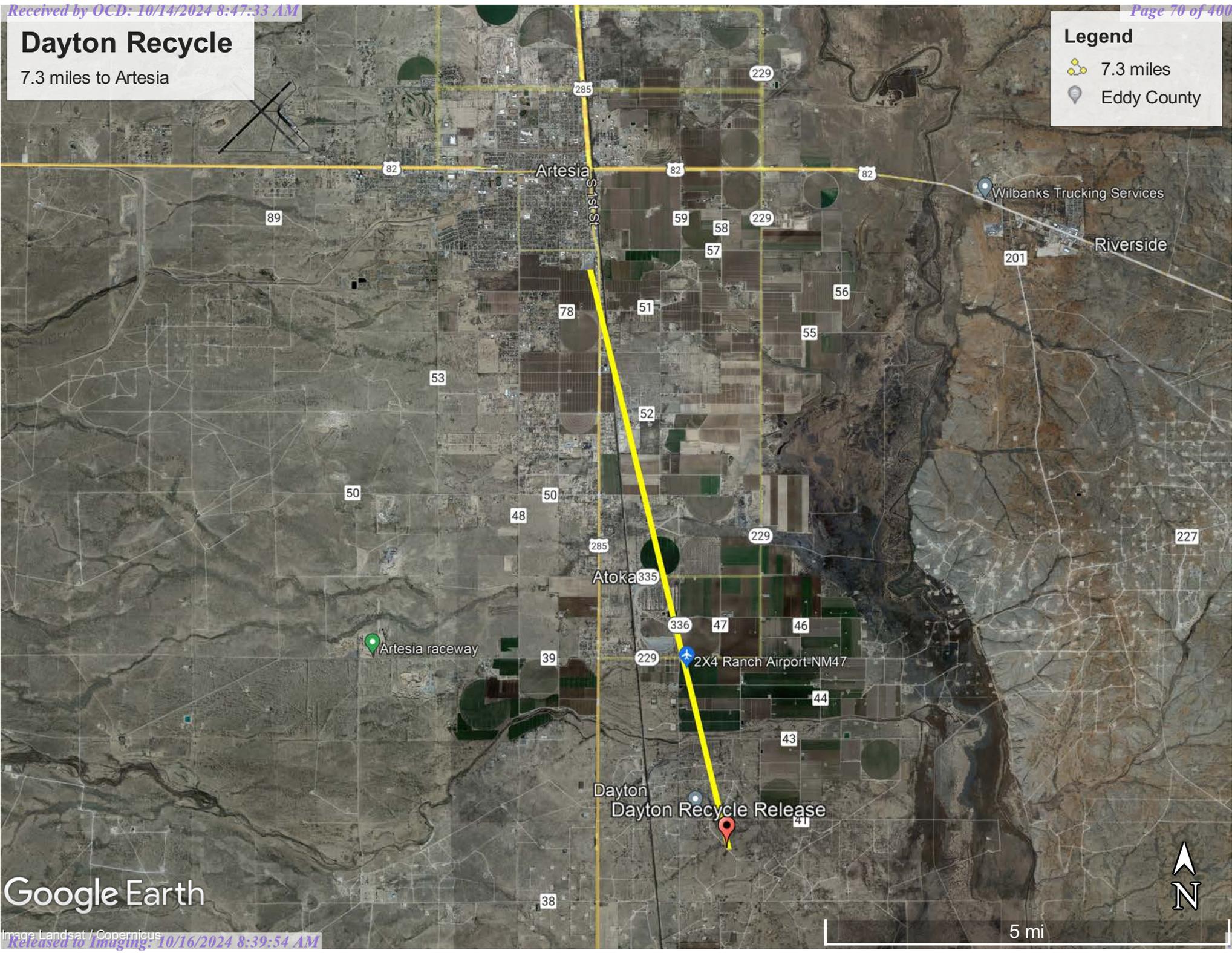


Dayton Recycle

7.3 miles to Artesia

Legend

-  7.3 miles
-  Eddy County

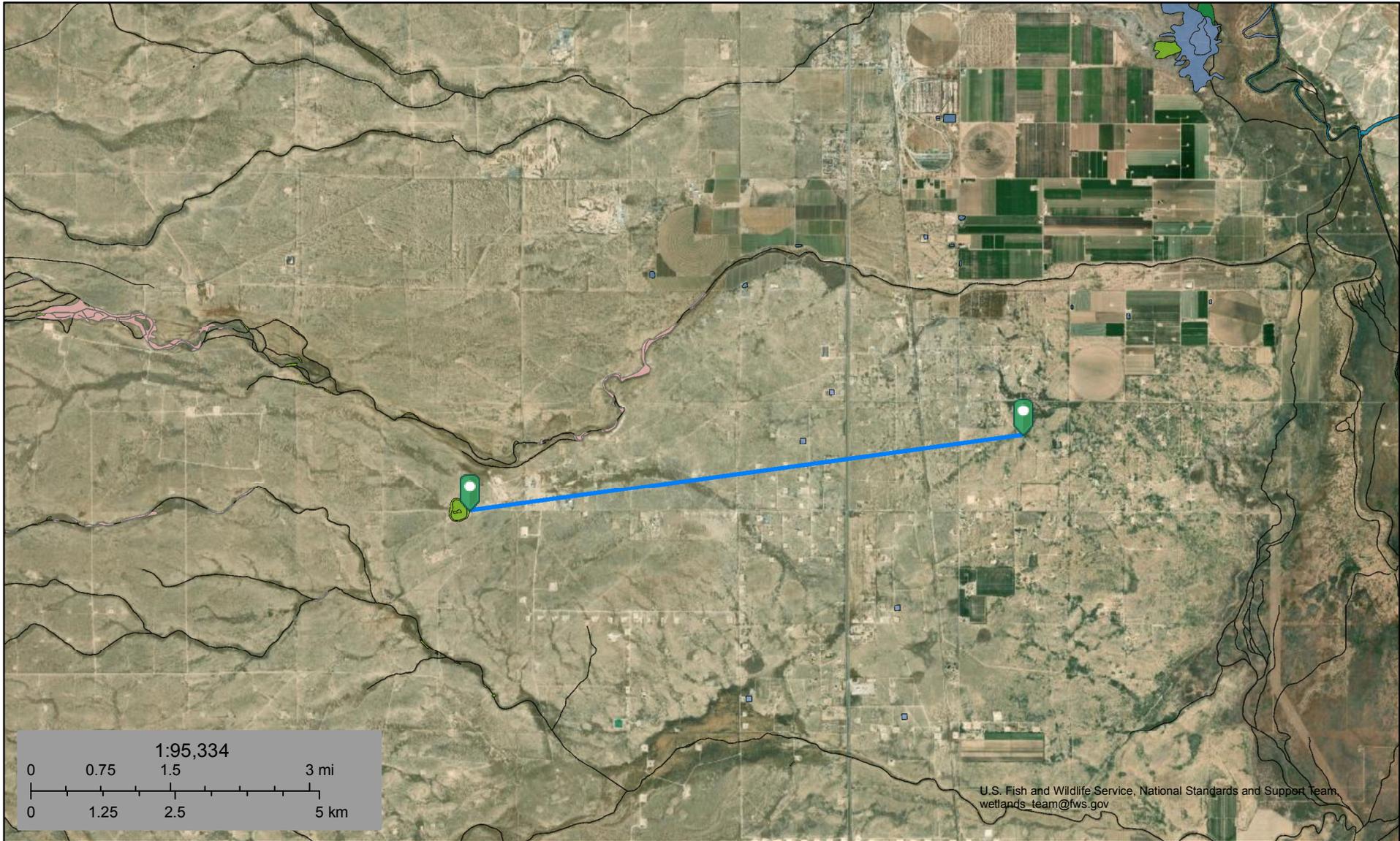


Google Earth

5 mi



Dayton Recycle Wetland 26,752 ft



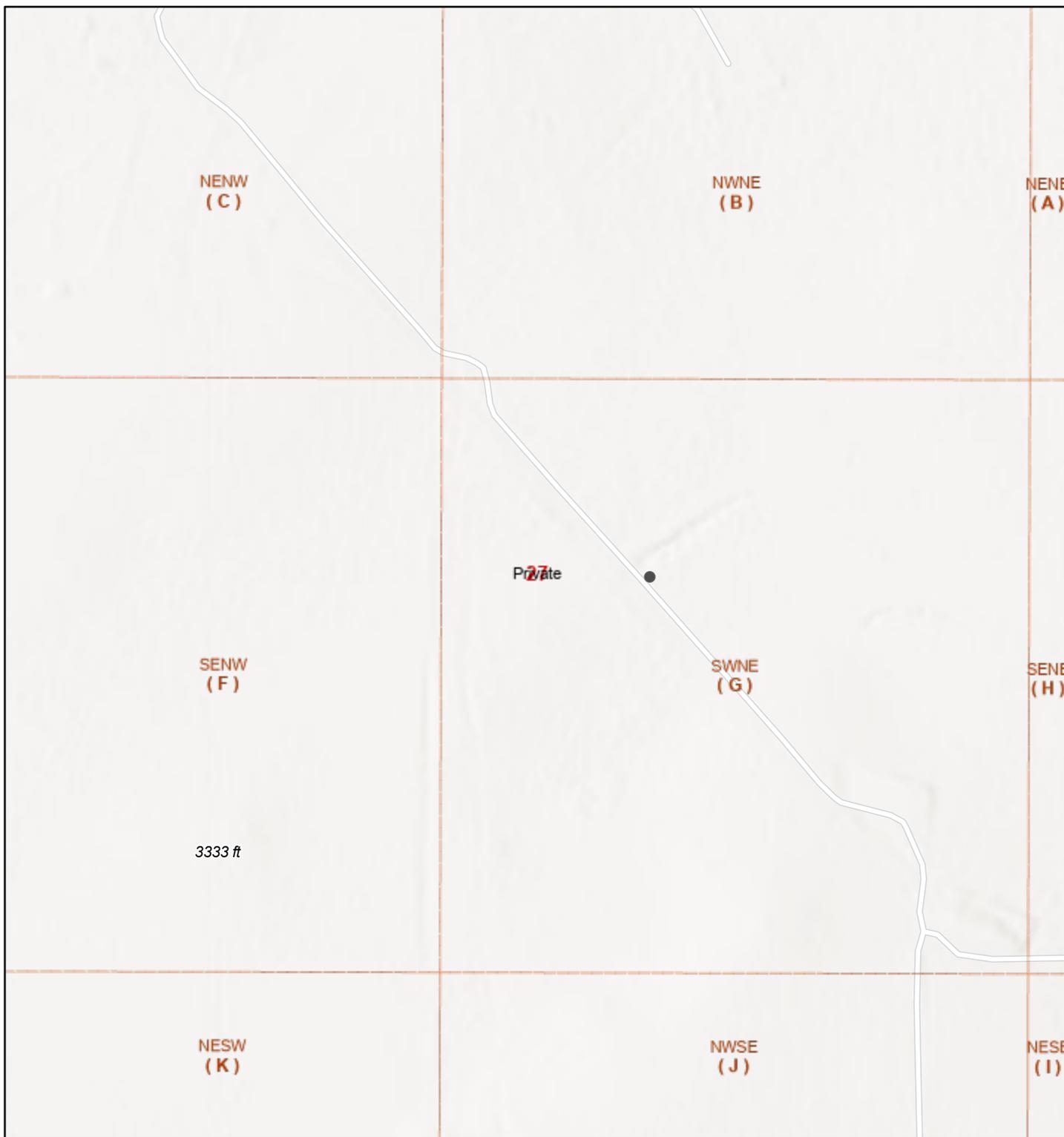
April 18, 2023

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other
- Estuarine and Marine Wetland
- 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.

Active Mines in New Mexico



6/9/2023, 4:21:41 PM

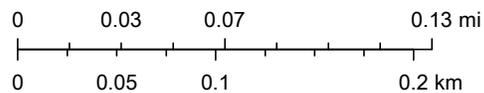
Land Ownership

P

 PLSS Second Division

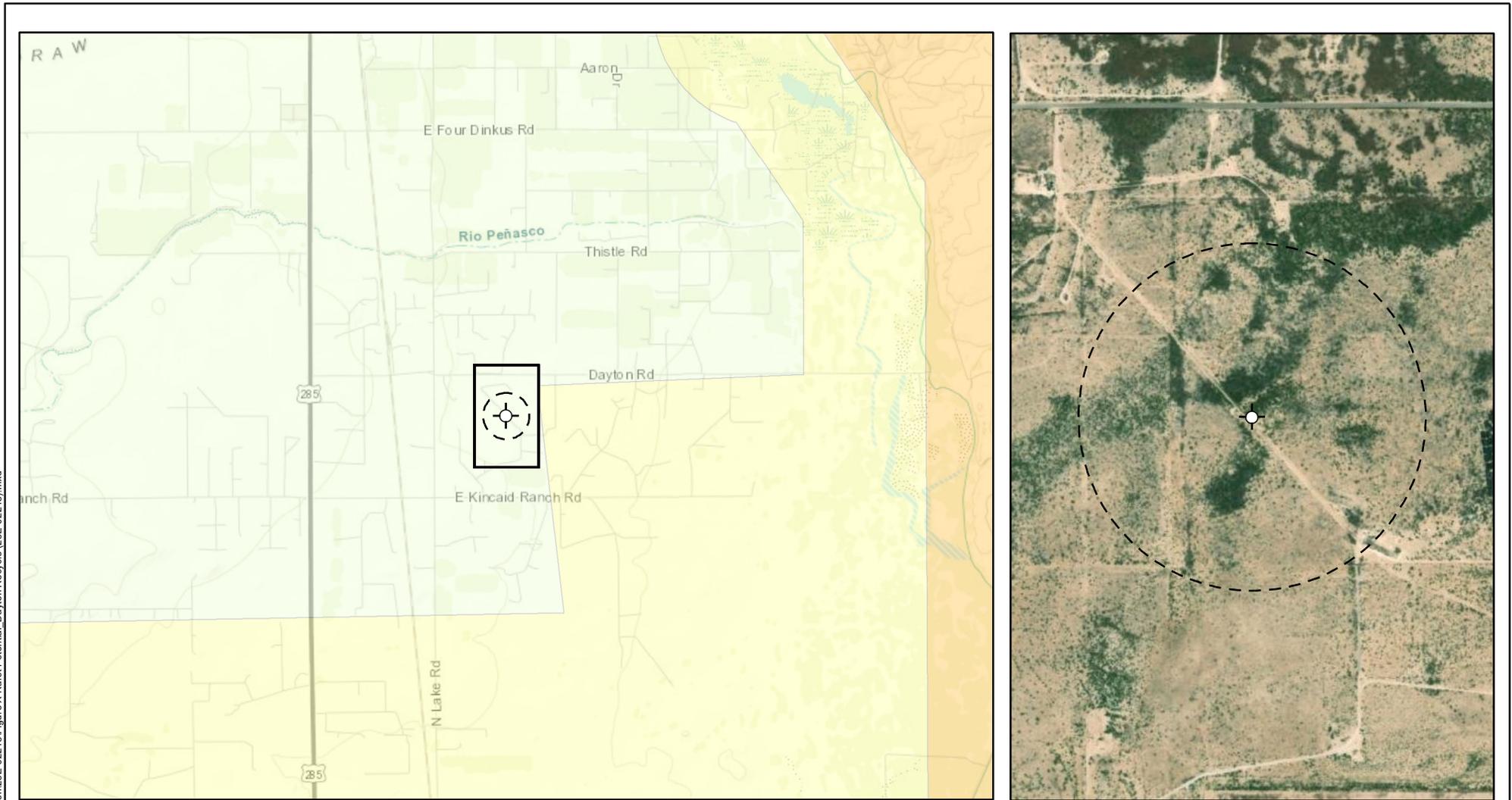
 PLSS First Division

1:4,514



U.S. BLM, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Sources: Esri, Airbus DS, USGS, NGA, NASA,

EMNRD MMD GIS Coordinator



Karst Potential

- Critical
 - High
 - Medium
 - Low
- Site Location
 - Site Buffer (1,000 sq. ft)

Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft.



Map Center:
Lat/Long: 32.721190, -104.368270

NAD 1983 UTM Zone 13N
Date: Apr 27/23



**Karst Potential Schematic
Dayton Recycle**

FIGURE:

X



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: Inset Map, Georeferenced image from Esri, 2020; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

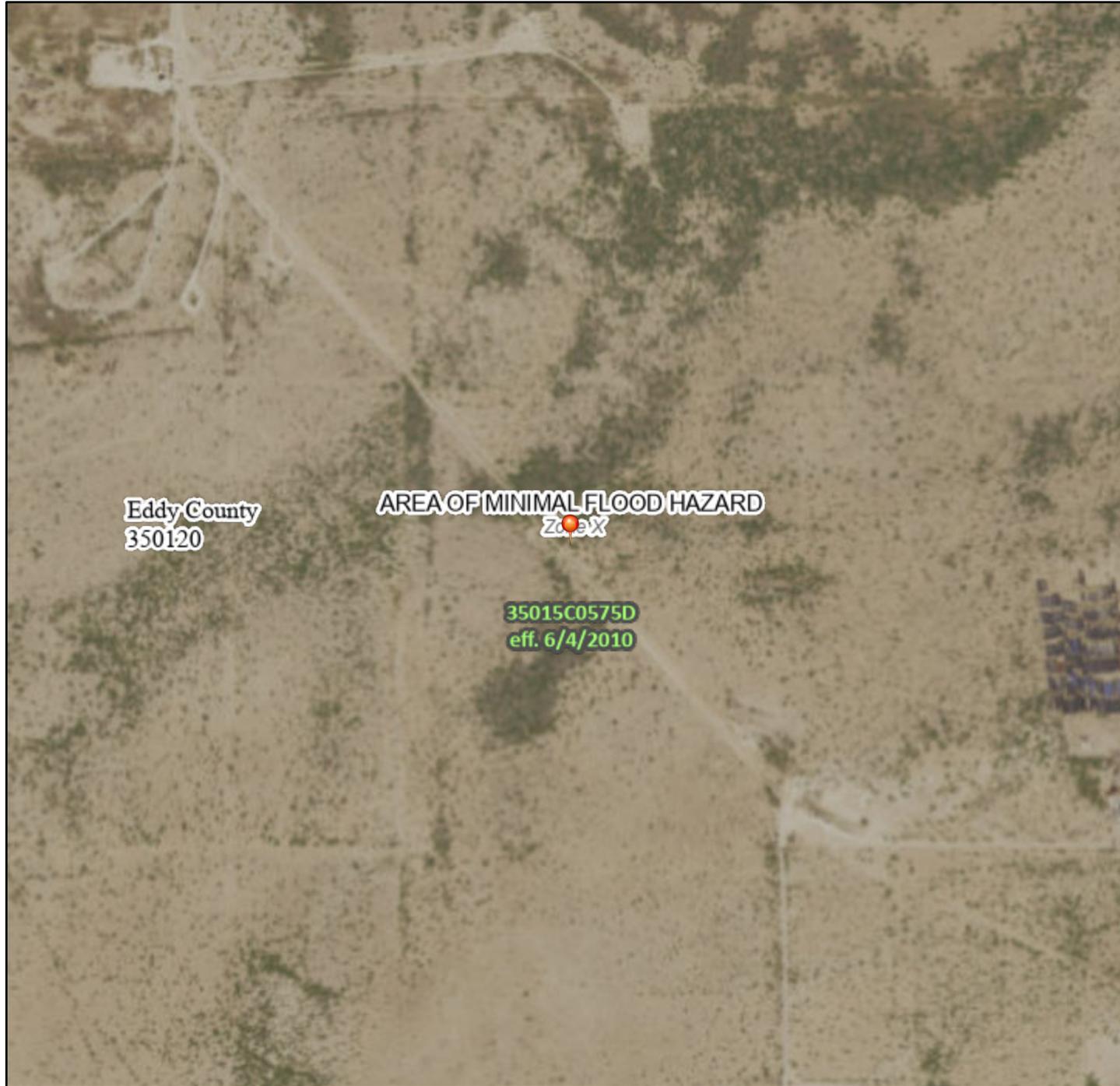
VERSATILITY. EXPERTISE.

Document Path: G:\Projects\US PROJECTS\Silverback Exploration\23E-02248\Figure X Karst Potential Dayton Recycle (23E-02248).mxd

National Flood Hazard Layer FIRMette



104°22'25"W 32°43'31"N



Legend

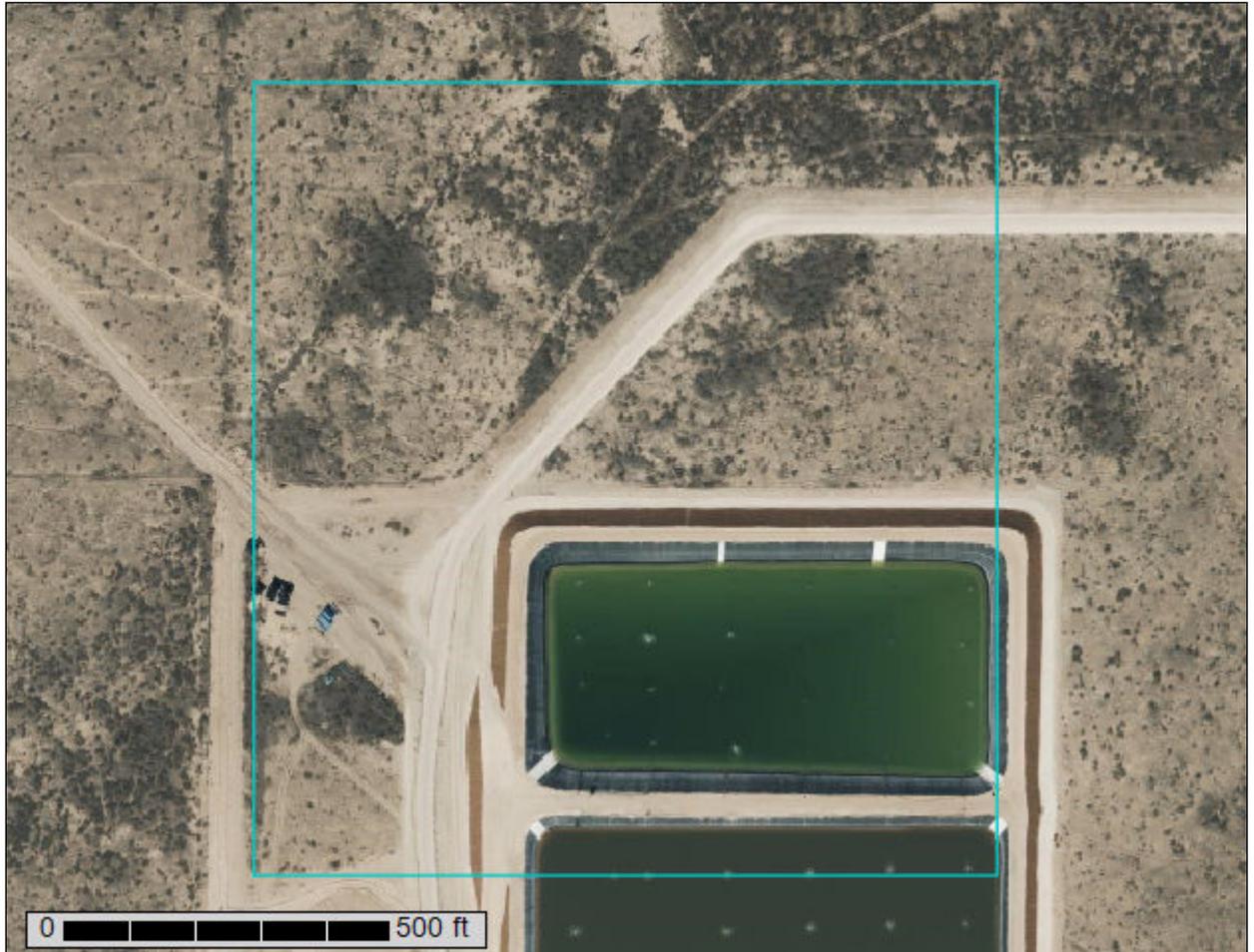
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, 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
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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 9, 2023

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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Map Unit Descriptions (Dayton Recycle Release).....	11
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At—Atoka loam, 1 to 3 percent slopes.....	13
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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

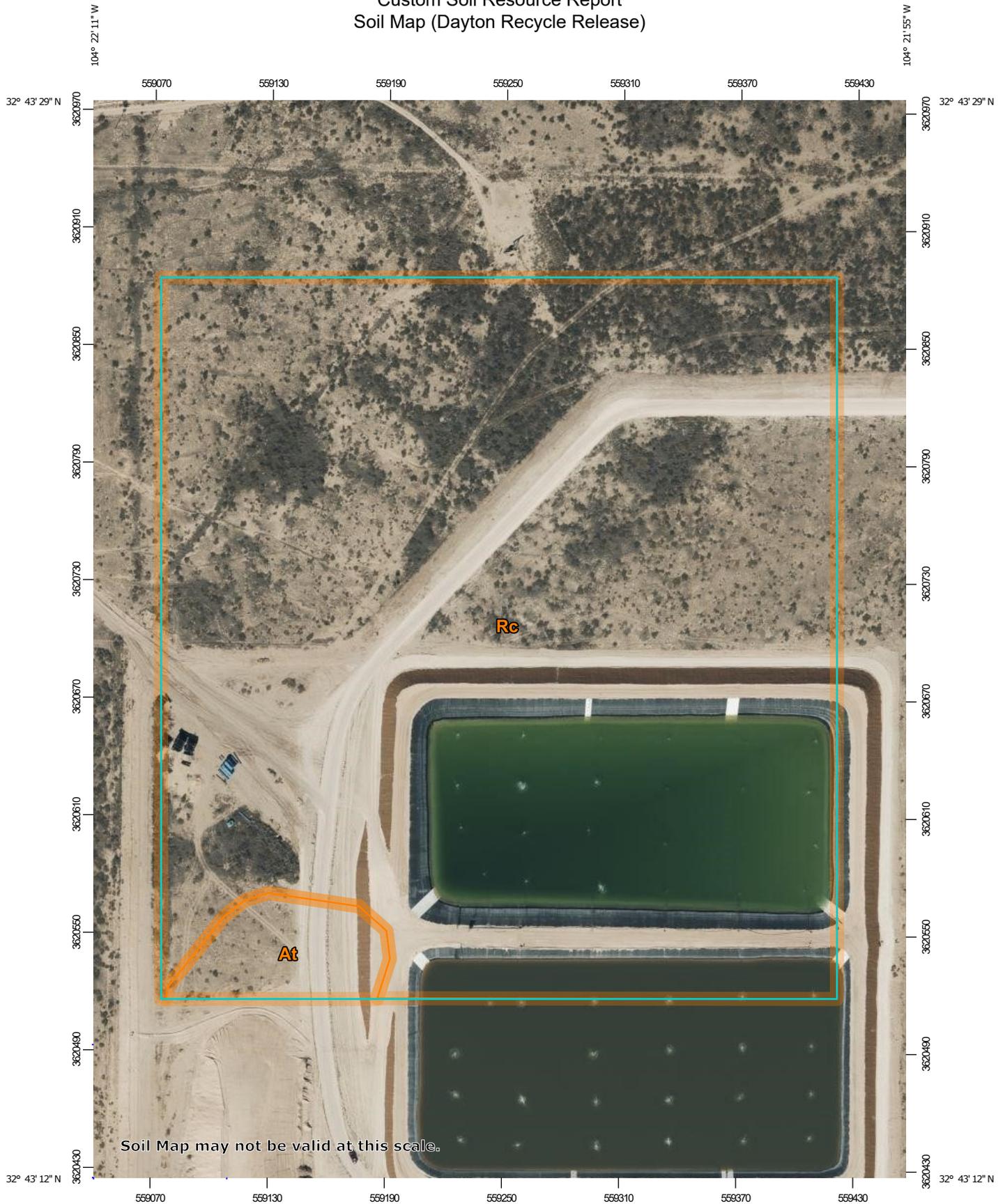
Custom Soil Resource Report

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

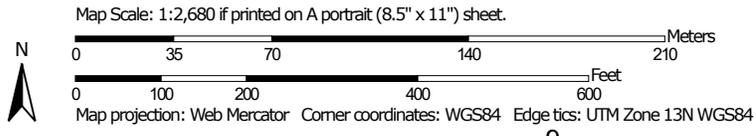
Soil Map

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 (Dayton Recycle Release)



Soil Map may not be valid at this scale.



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 18, Sep 8, 2022

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.

Custom Soil Resource Report

Map Unit Legend (Dayton Recycle Release)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
At	Atoka loam, 1 to 3 percent slopes	1.2	3.7%
Rc	Reagan loam, 0 to 1 percent slopes	30.5	96.3%
Totals for Area of Interest		31.6	100.0%

Map Unit Descriptions (Dayton Recycle Release)

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

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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.

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.

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Eddy Area, New Mexico**At—Atoka loam, 1 to 3 percent slopes****Map Unit Setting***National map unit symbol: 1w41**Elevation: 1,100 to 4,300 feet**Mean annual precipitation: 7 to 14 inches**Mean annual air temperature: 60 to 70 degrees F**Frost-free period: 200 to 240 days**Farmland classification: Farmland of statewide importance***Map Unit Composition***Atoka and similar soils: 98 percent**Minor components: 2 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Atoka****Setting***Landform: Plains**Landform position (three-dimensional): Riser**Down-slope shape: Convex**Across-slope shape: Linear**Parent material: Mixed alluvium***Typical profile***H1 - 0 to 8 inches: loam**H2 - 8 to 33 inches: loam**H3 - 33 to 37 inches: indurated***Properties and qualities***Slope: 1 to 3 percent**Depth to restrictive feature: 20 to 40 inches to petrocalcic**Drainage class: Well drained**Runoff class: High**Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)**Depth to water table: More than 80 inches**Frequency of flooding: None**Frequency of ponding: None**Calcium carbonate, maximum content: 15 percent**Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)**Sodium adsorption ratio, maximum: 1.0**Available water supply, 0 to 60 inches: Moderate (about 6.4 inches)***Interpretive groups***Land capability classification (irrigated): 3e**Land capability classification (nonirrigated): 7e**Hydrologic Soil Group: C**Ecological site: R070BC007NM - Loamy**Hydric soil rating: No*

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Minor Components

Atoka

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

Rc—Reagan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5l
Elevation: 1,100 to 5,300 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 82 inches: loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

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Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

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

Reeves

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

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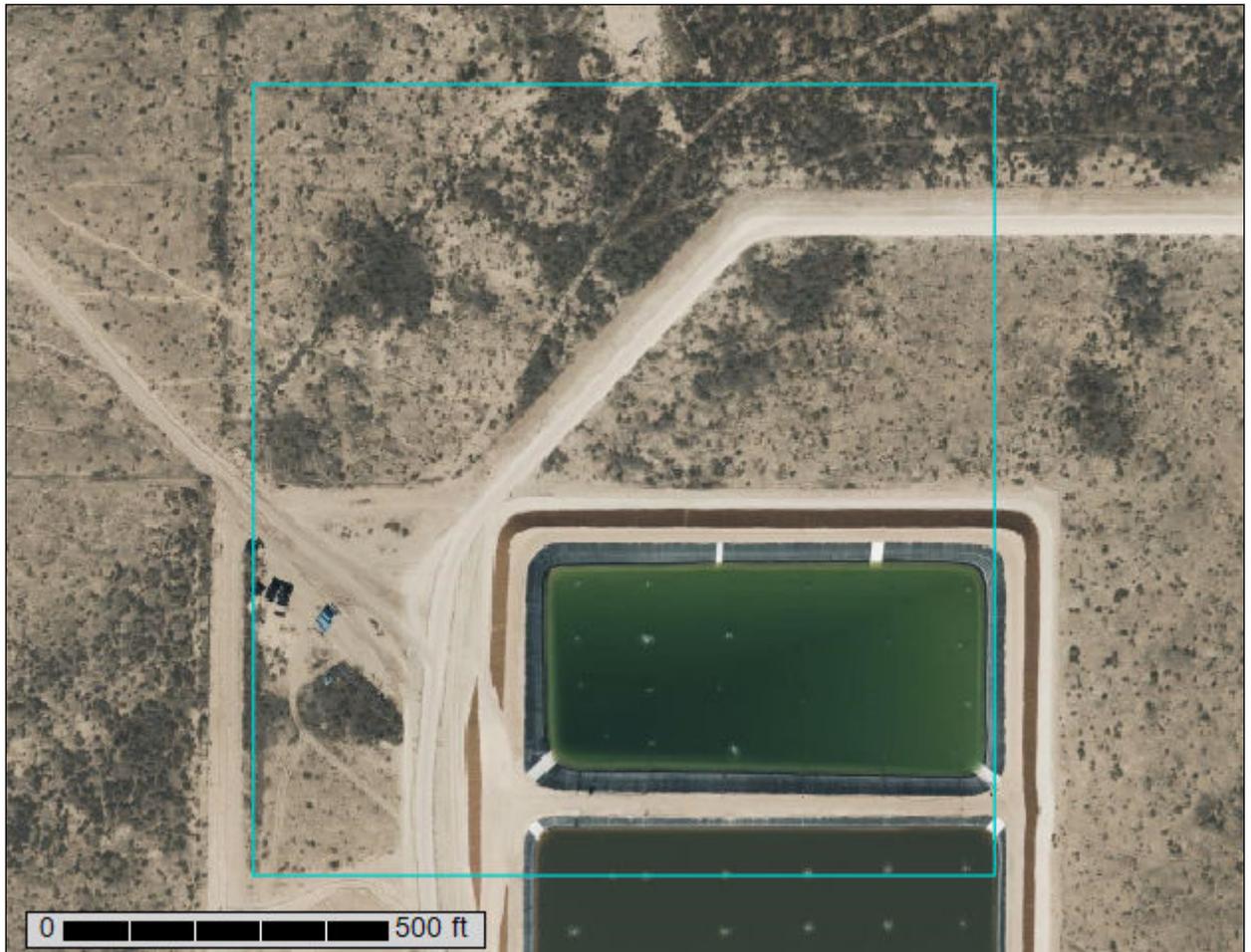
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A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



June 9, 2023

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

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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 Information for All Uses

Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

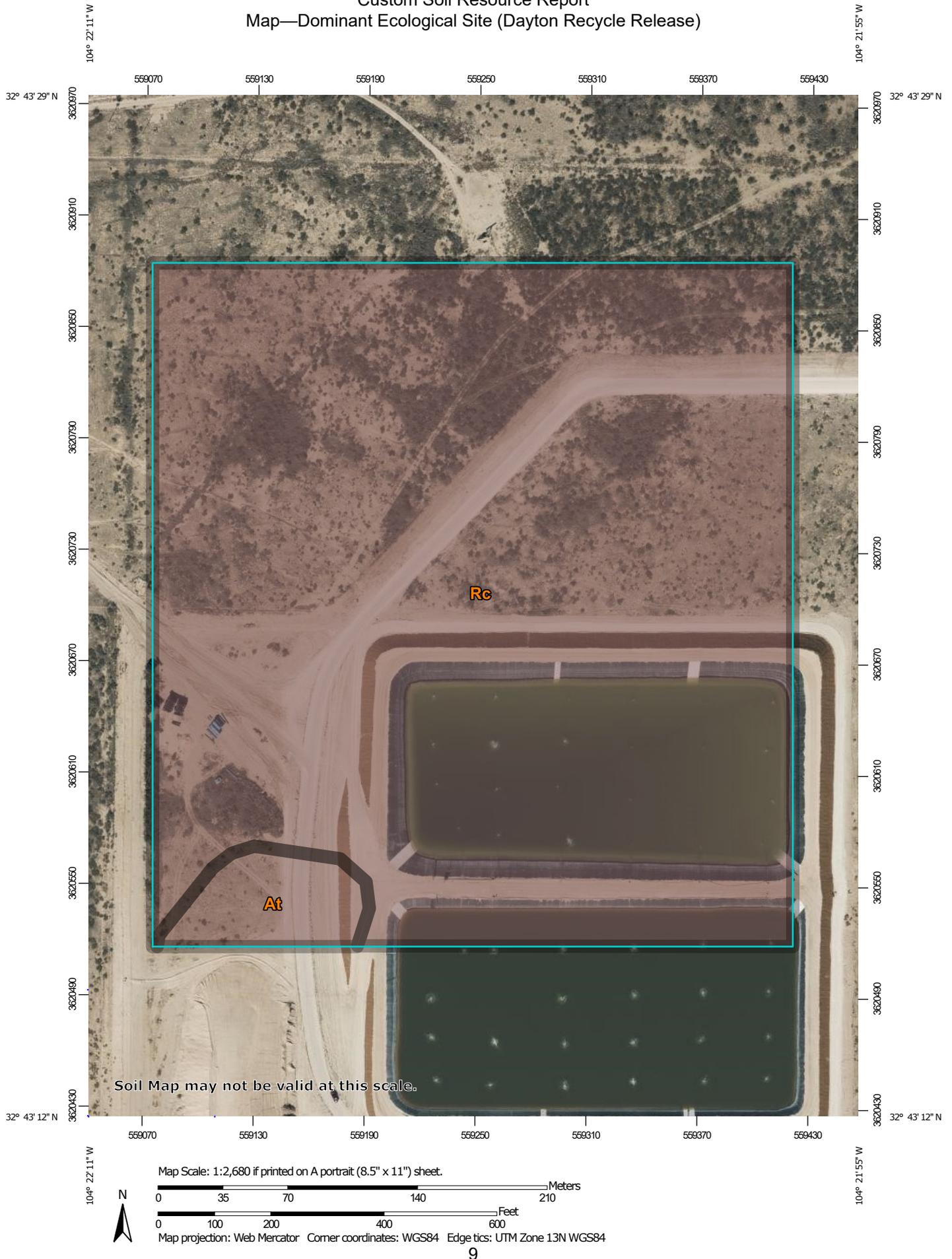
All Ecological Sites — (Dayton Recycle Release)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

Custom Soil Resource Report Map—Dominant Ecological Site (Dayton Recycle Release)



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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 R070BC007NM

 Not rated or not available

Soil Rating Lines

 R070BC007NM

 Not rated or not available

Soil Rating Points

 R070BC007NM

 Not rated or not available

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 18, Sep 8, 2022

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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**Table—Ecological Sites by Map Unit Component
(Dayton Recycle Release)**

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
At	Atoka loam, 1 to 3 percent slopes	Atoka (98%)	R070BC007NM — Loamy	1.2	3.7%
		Atoka (1%)	R070BC007NM — Loamy		
		Upton (1%)	R070BC025NM — Shallow		
Rc	Reagan loam, 0 to 1 percent slopes	Reagan (97%)	R070BC007NM — Loamy	30.5	96.3%
		Reagan (1%)	R070BC007NM — Loamy		
		Reeves (1%)	R070BC007NM — Loamy		
		Upton (1%)	R070BC025NM — Shallow		
Totals for Area of Interest				31.6	100.0%

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Ecological site R070BC007NM Loamy

Accessed: 07/31/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Terrace (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft
Slope	0–5%
Aspect	E, S, W

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest in January through June rapidly drying out the soil during a critical time for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam, silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate. The Atoka, Reeves, Russler, Milner soils may have high amounts of CaCO₃, ranging as high as 40 percent in the subsoil. Rock fragments range from 5 to 50 percent in the subsoil. Reeves, Russler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic)
 Bigetty
 Reagan
 Reakor
 Reeves (gypsum)
 Russler (gypsum)
 Largo
 Russler (gypsum)
 Largo
 Berino
 Tinney
 Midessa
 Ratliff
 Holloman (gypsum)
 Milner (gypsum)

Table 4. Representative soil features

Surface texture	(1) Loam (2) Very fine sandy loam (3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in

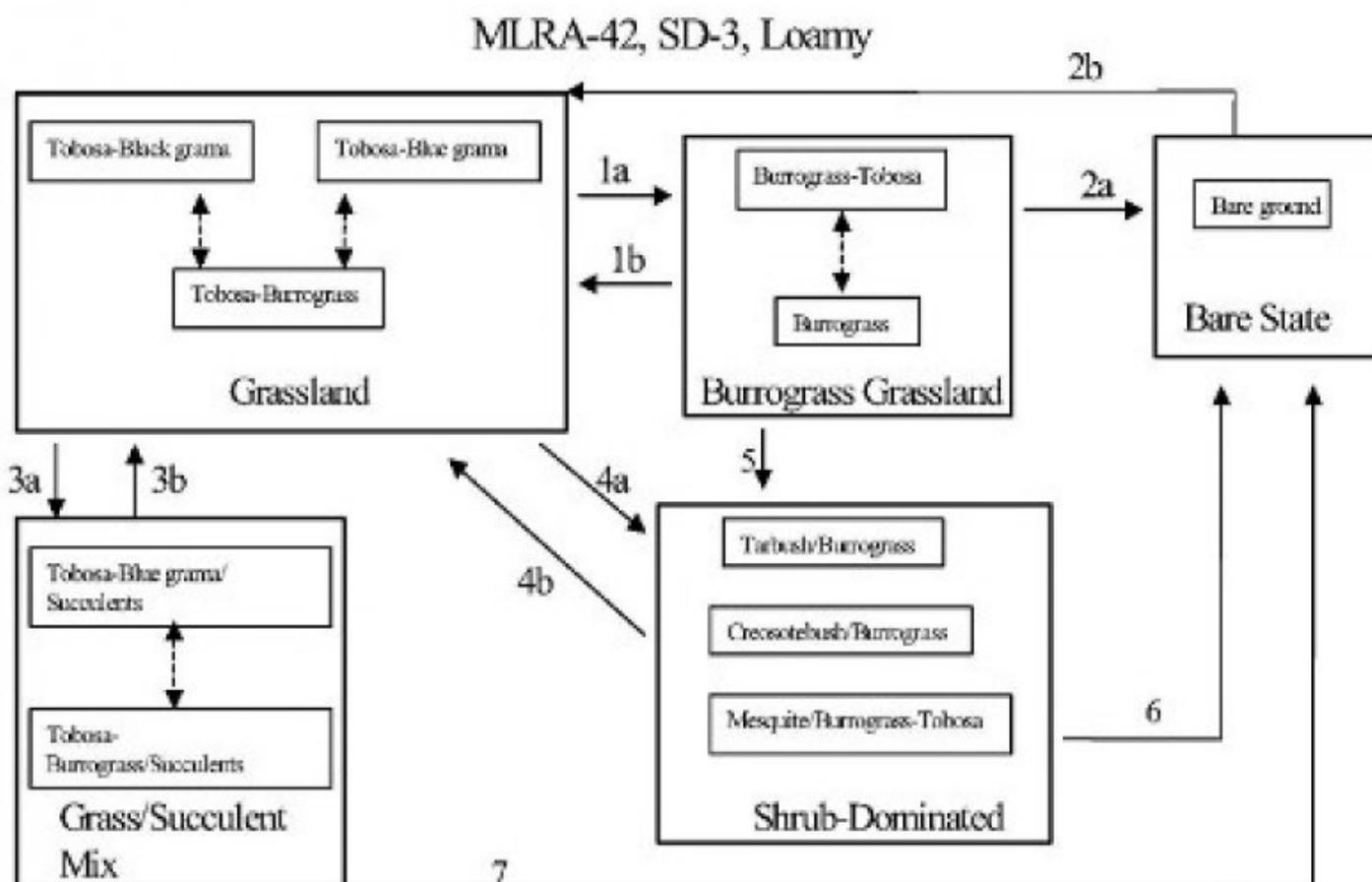
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)



- 1a. Soil drying, overgrazing, drought, soil surface sealing. 1b. Restore natural overland flow, increase infiltration, prescribed grazing.
- 2a. Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.
- 3a. Lack of fire, overgrazing, hail storms or other physical disturbance, drought. 3b. Prescribed fire, brush control, prescribed grazing.
- 4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.
- 5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.
- 6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

**State 1
Historic Climax Plant Community**

**Community 1.1
Historic Climax Plant Community**

State Containing Historic Climax Plant Community Grassland: The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a

wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed. Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances. Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush. Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	650	925	1200

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 5. Plant community growth curve (percent production by month). NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm Season Plant Community..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	5	10	10	25	30	15	5	0	0

State 2

Burrograss-Grassland

Community 2.1

Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated. Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss. Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5 Key indicators of approach to transition: ? Diversion of overland flow resulting in decreased soil moisture. ? Increase in amount of burrograss cover ? Reduction in grass cover and increase in size and frequency of bare patches. ? Formation of physical crusts—indicating reduced infiltration. ? Evidence of litter movement—indicating loss or redistribution of organic matter. Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3

Bare State

Community 3.1

Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades. Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active. Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration. Key indicators of approach to transition: ? Continued reduction in grass cover. ? Increased soil surface sealing. ? Increased erosion. ? Reduced aggregate stability in bare areas. Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4

Grass/Succulent Mix

Community 4.1

Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to

medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss. Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species. Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.1 Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.3 During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.4 Key indicators of approach to transition: ? Decrease or change in distribution of grass cover. ? Increase in amount of succulent seedlings. ? Increased cover of succulents. Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.2 Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5 Shrub Dominated

Community 5.1 Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced. Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils. Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings. Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition. Key indicators of approach to transition: ? Decreased grass and litter cover. ? Increased bare patch size. ? Increased physical soil crusts. ? Increased amount of mesquite, creosotebush, or tarbush seedlings. ? Increased shrub cover. Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment. Transition to Bare State (6): If grass cover on the shrub-dominated state is

severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful. Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			278–324	
	tobosagrass	PLMU3	<i>Pleuraphis mutica</i>	278–324	–
2	Warm Season			9–46	
	burrograss	SCBR2	<i>Scleropogon brevifolius</i>	9–46	–
3	Warm Season			231–278	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	231–278	–
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	231–278	–
4	Warm Season			28–46	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	28–46	–
5	Warm Season			46–93	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	46–93	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	46–93	–
6	Warm Season			9–28	
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	9–28	–
7	Warm Season			46–93	
	threeawn	ARIST	<i>Aristida</i>	46–93	–
	muhly	MUHLE	<i>Muhlenbergia</i>	46–93	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	46–93	–
8	Warm Season			28–46	
	Graminoid (grass or grass-like)	2GRAM	<i>Graminoid (grass or grass-like)</i>	28–46	–
Shrub/Vine					
9	Shrub			9–28	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	9–28	–
	jointfir	EPHED	<i>Ephedra</i>	9–28	–
	winterfat	KRLA2	<i>Krascheninnikovia lanata</i>	9–28	–
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	5–24	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	5–24	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	5–24	–
10	Shrub			9–28	
	javelina bush	COER5	<i>Condalia ericoides</i>	9–28	–
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	9–28	–
	Grass, annual	2GA	<i>Grass, annual</i>	5–15	–
11	Shrubs			9–28	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	9–28	–
Forb					

12	Forb			9-46	
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus var. flaccidus</i>	9-46	-
	globemallow	SPHAE	<i>Sphaeralcea</i>	9-46	-
	verbena	VEPO4	<i>Verbena polystachya</i>	9-46	-
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	5-15	-
	pricklypear	OPUNT	<i>Opuntia</i>	5-15	-
13	Forb			9-28	
	croton	CROTO	<i>Croton</i>	9-28	-
	woolly groundsel	PACA15	<i>Packera cana</i>	9-28	-
14	Forb			9-28	
	Goodding's tansyaster	MAPIG2	<i>Machaeranthera pinnatifida ssp. gooddingii var. gooddingii</i>	9-28	-
	woolly paperflower	PSTA	<i>Psilostrophe tagetina</i>	9-28	-
15	Forb			9-28	
	redstem stork's bill	ERCI6	<i>Erodium cicutarium</i>	9-28	-
	Texas stork's bill	ERTE13	<i>Erodium texanum</i>	9-28	-
16	Forb			9-28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	9-28	-

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip snake.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations
 Soil Series Hydrologic Group
 Atoka C
 Bigetty B
 Ratliff B
 Reyab B
 Holloman B
 Largo B
 Holloman B
 Bigetty B
 Berino B
 Reagan B
 Reakor B
 Reeves B
 Russler C

Recreational uses

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

Wood products

This site has no potential for wood products

Other products

This site is suitable for grazing by all kinds and classes of livestock, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely dominate the site. Creosotebush, mesquite, and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 3.0 – 4.2

75 – 51 4.1 – 5.5

50 – 26 5.3 – 7.0

25 – 0 7.1 +

Inventory data references

Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County Lea County and Chavez County.

Other references

Literature References:

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2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. *J. Range. Manage.* 33: 85-88.
3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) *Proc. XIV Int. Grassland Congr.* Westview Press, Boulder, Colo.
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5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: <http://www.statlab.iastate.edu/survey/SQI/range.html>

Contributors

David Trujillo
Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

3. **Number and height of erosional pedestals or terracettes:**

4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):**

5. **Number of gullies and erosion associated with gullies:**

6. **Extent of wind scoured, blowouts and/or depositional areas:**

7. **Amount of litter movement (describe size and distance expected to travel):**

8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**

9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial**

distribution on infiltration and runoff:

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**

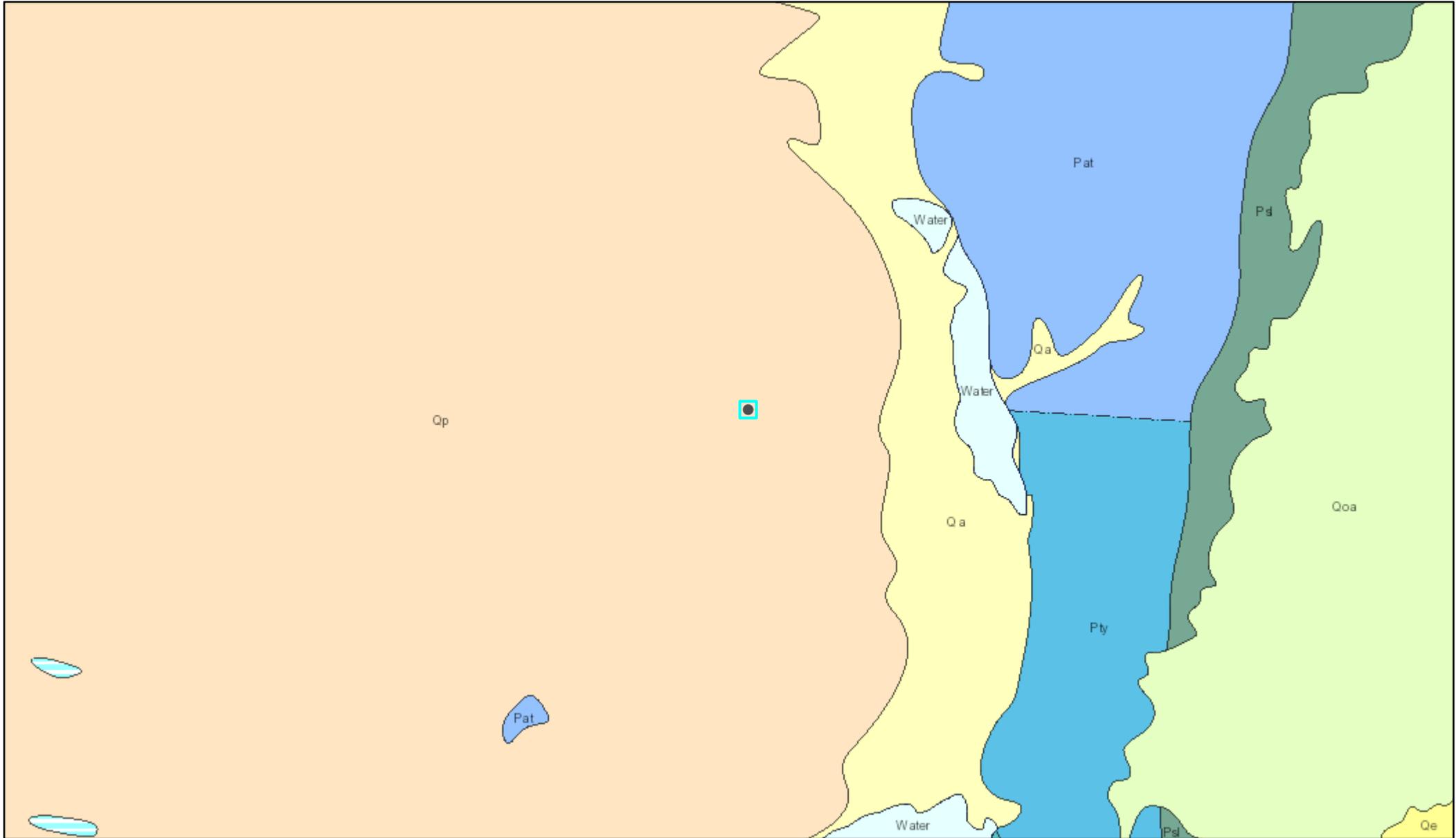
14. **Average percent litter cover (%) and depth (in):**

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**

17. **Perennial plant reproductive capability:**

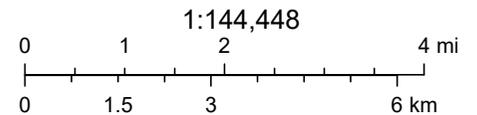
Dayton Recycle Surface Geology



6/12/2023, 3:08:31 PM

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

APPENDIX C – Daily Field Reports



Daily Site Visit Report

Client:	<u>Silverback Exploration</u>	Inspection Date:	<u>5/1/2023</u>
Site Location Name:	<u>Dayton Recycle Release</u>	Report Run Date:	<u>5/1/2023 11:25 PM</u>
Client Contact Name:	<u>Mark Ritchie</u>	API #:	<u></u>
Client Contact Phone #:	<u>713-553-8320</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>5/1/2023 8:00 AM</u>
Departed Site	<u>5/1/2023 4:21 PM</u>

Field Notes

- 14:43** Completed safety paperwork on site.
- 14:43** On site to continue characterization efforts for release
- 14:44** Obtained BH23-01 and BH23-02 from 2-4'.
As well, obtained BH23-03 and BH23-04 from Zero-4'.
- 14:44** Samples obtained at Northern area of road where road bends East.

Next Steps & Recommendations

- 1 Continue characterization



Daily Site Visit Report

Site Photos

Viewing Direction: South



Descriptive Photo - 1
Viewing Direction: South
Date: 5/1/2023
Created: 5/1/2023 2:44:41 PM
Lat:32.723824, Long:-104.367176

BH23-01

Viewing Direction: South



Descriptive Photo - 2
Viewing Direction: South
Date: 5/1/2023
Created: 5/1/2023 2:46:20 PM
Lat:32.723827, Long:-104.367037

BH23-02

Viewing Direction: South



Descriptive Photo - 3
Viewing Direction: South
Date: 5/1/2023
Created: 5/1/2023 2:46:38 PM
Lat:32.723824, Long:-104.367027

BH23-03

Viewing Direction: Southwest



Descriptive Photo - 4
Viewing Direction: Southwest
Date: 5/1/2023
Created: 5/1/2023 2:46:13 PM
Lat:32.723816, Long:-104.366980

BH23-04



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Austin Harris

Signature:

A handwritten signature in black ink, appearing to be 'AH' with a large loop and a crossbar.

Signature



Daily Site Visit Report

Client	Silverback Exploration	Inspection Date	6/18/2024
Site Location Name	Dayton Recycle Release	API #	
Client Contact Name	Mark Ritchie	Project Owner	
Client Contact Phone #	713-553-8320	Project Manager	
Project Reference #			
Unique Project ID			

Summary of Times

Arrived at Site	6/18/2024 9:30 AM
Departed Site	6/18/2024 11:29 PM

Field Notes

08:30 Arrived at location and filled out safety paperwork. At location to take final site photographs prior to backfill activities.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Northern portions of excavation

Viewing Direction: Southwest



Northern portions of excavation

Viewing Direction: West



Northern portions of excavation

Viewing Direction: Northeast



Northern portions of excavation

Daily Site Visit Report



Site Photos

Viewing Direction: South



Corridor between northern and middle portions

Viewing Direction: North



Corridor between northern and middle portions

Viewing Direction: South



Middle portions of excavation

Viewing Direction: Southwest



Middle portions of excavation

Daily Site Visit Report



Site Photos

Viewing Direction: North



Date & Time: Tue Jun 18 10:50:14 MDT 2024
Position: +032.72285° / -104.36787°
Altitude: 3341ft
Datum: WGS-84
Azimuth Bearing: 013° N13E 0231mils (True)
Zoom: 1x

Middle portions of excavation

Viewing Direction: Northeast



Date & Time: Tue Jun 18 10:50:26 MDT 2024
Position: +032.72290° / -104.36794°
Altitude: 3335ft
Datum: WGS-84
Azimuth Bearing: 032° N32E 0569mils (True)
Zoom: 1x

Middle portions of excavation

Viewing Direction: Northeast



Date & Time: Tue Jun 18 10:50:58 MDT 2024
Position: +032.72268° / -104.36821°
Altitude: 3331ft
Datum: WGS-84
Azimuth Bearing: 045° N45E 0800mils (True)
Zoom: 1x

Middle portions of the excavation

Viewing Direction: Northeast



Date & Time: Tue Jun 18 10:51:02 MDT 2024
Position: +032.72235° / -104.36849°
Altitude: 3333ft
Datum: WGS-84
Azimuth Bearing: 057° N57E 1013mils (True)
Zoom: 1x

Middle portions of excavation

Daily Site Visit Report



Site Photos

Viewing Direction: South



Southern portions of excavation

Viewing Direction: Southeast



Southern portions of excavation

Viewing Direction: South



Southern portions of excavation

Viewing Direction: Northeast



Southern portions of excavation

Daily Site Visit Report



Site Photos

Viewing Direction: Northwest



Southern portions of excavation

Viewing Direction: East



Sampling area for WS24-32/BS24-149

Viewing Direction: North



Sampling area for WS24-33/BS24-150

Viewing Direction: West



Sampling area for WS24-34/BS24-151

Daily Site Visit Report



Site Photos

Viewing Direction: South



Sampling area for WS24-35/BS24-152

Viewing Direction: West



Sampling area for WS24-36/BS24-153

Viewing Direction: West



Sampling area for WS24-37/BS24-154

Viewing Direction: North



Sampling area for WS24-38/BS24-155

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:


Signature



Daily Site Visit Report

Client	Silverback Exploration	Inspection Date	7/8/2024
Site Location Name	Dayton Recycle Release	API #	
Client Contact Name	Mark Ritchie	Project Owner	
Client Contact Phone #	713-553-8320	Project Manager	
Project Reference #			
Unique Project ID			

Summary of Times

Arrived at Site 7/8/2024 12:00 PM

Departed Site 7/8/2024 1:29 PM

Field Notes

13:00 Arrived at location and filled out safety paperwork. At location to take final reclamation site photographs after backfill activities.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Northeast



Southern portions of backfilled excavation

Viewing Direction: Northwest



Southern portions of backfilled excavation

Viewing Direction: Southwest



Southern portions of backfilled excavation

Viewing Direction: Southeast



Southern portions of backfilled excavation

Daily Site Visit Report



Site Photos

Viewing Direction: East



Southern portions of backfilled excavation

Viewing Direction: North



Backfilled lease road

Viewing Direction: North



Middle portions of backfilled excavation

Viewing Direction: North



Middle portions of backfilled excavation



Daily Site Visit Report

Site Photos

Viewing Direction: North



Middle portions of backfilled excavation

Viewing Direction: Northeast



Backfilled road and pipeline ROW

Viewing Direction: Northeast



Backfilled road and pipeline ROW

Viewing Direction: Northeast



Northern portions of backfilled excavation

Daily Site Visit Report



Site Photos

Viewing Direction: East



Northern portions of backfilled excavation

Viewing Direction: Southeast



Northern portions of backfilled excavation

Viewing Direction: Southwest



Northern portions of backfilled excavation

Viewing Direction: West



Northern portions of backfilled excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature:


Signature

APPENDIX D – Notifications



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48-Hour Notification - Dayton Water Recycle

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: mmoffitt@vertex.ca, mritchie@silverbackexp.com

Thu, Jun 22, 2023 at 3:06 PM

All,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

nAPP2307356662

On Tuesday, June 27, 2023, at approximately 8:00 a.m., Vertex will be on-site to conduct confirmation sampling. The sampling will continue through Wednesday, June 28, 2023. If you have any questions regarding this notification, please call Michael Moffitt at 575-988-2681.

Thank you,

Chance Dixon B.Sc.
Project Manager

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

C 575.988.1472

Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Fri, Jun 23, 2023 at 8:46 AM

Chance,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, June 22, 2023 3:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: mmoffitt@vertex.ca; mritchie@silverbackexp.com
Subject: [EXTERNAL] 48-Hour Notification - Dayton Water Recycle

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



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

July 23, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/18/24 8:56.

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 written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 01 1FT (H244292-01)

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	07/18/2024	ND	1.94	96.9	2.00	4.78	
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	07/19/2024	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	07/18/2024	ND	215	108	200	1.16	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	207	103	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 02 1FT (H244292-02)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	16.0	16.0	07/19/2024	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	07/18/2024	ND	215	108	200	1.16		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	207	103	200	1.26		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 03 1FT (H244292-03)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	64.0	16.0	07/19/2024	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	07/18/2024	ND	197	98.5	200	2.50		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.8	200	2.63		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 04 1FT (H244292-04)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	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	48.0	16.0	07/19/2024	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	07/18/2024	ND	197	98.5	200	2.50		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.8	200	2.63		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 05 1FT (H244292-05)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	07/19/2024	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	07/18/2024	ND	197	98.5	200	2.50		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.8	200	2.63		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 06 1FT (H244292-06)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	128	16.0	07/19/2024	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	07/18/2024	ND	197	98.5	200	2.50		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.8	200	2.63		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 07 1FT (H244292-07)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	128	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	197	98.5	200	2.50		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	182	90.8	200	2.63		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 08 1FT (H244292-08)

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	07/18/2024	ND	1.94	96.9	2.00	4.78	
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83	
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81	
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61	
Total BTEX	<0.300	0.300	07/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	128	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 09 1FT (H244292-09)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	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	160	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 10 1FT (H244292-10)

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	07/18/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/18/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/18/2024	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	80.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 11 1FT (H244292-11)

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	07/19/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 12 1FT (H244292-12)

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	07/19/2024	ND	1.94	96.9	2.00	4.78	
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	3.83	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	3.81	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	3.61	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	80.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 13 1FT (H244292-13)

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	07/19/2024	ND	1.94	96.9	2.00	4.78		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	3.83		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	3.81		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	3.61		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	80.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 14 1FT (H244292-14)

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	07/18/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/18/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 15 1FT (H244292-15)

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	07/18/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/18/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	160	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 16 1FT (H244292-16)

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	07/18/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/18/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	32.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 17 1FT (H244292-17)

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	07/18/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/18/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/18/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/18/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/18/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	112	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 18 1FT (H244292-18)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	96.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 19 1FT (H244292-19)

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	07/19/2024	ND	1.96	97.8	2.00	4.97	
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91	
Total BTEX	<0.300	0.300	07/19/2024	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	112	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 20 1FT (H244292-20)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	128	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 21 1FT (H244292-21)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	16.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 22 1FT (H244292-22)

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	07/19/2024	ND	1.96	97.8	2.00	4.97	
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	96.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44	
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35	
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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

Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 23 1FT (H244292-23)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	144	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 24 1FT (H244292-24)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	112	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 25 1FT (H244292-25)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	96.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 26 1FT (H244292-26)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	80.0	16.0	07/19/2024	ND	448	112	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	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 27 1FT (H244292-27)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	112	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/18/2024	ND	202	101	200	5.44		
DRO >C10-C28*	<10.0	10.0	07/18/2024	ND	194	97.0	200	8.35		
EXT DRO >C28-C36	<10.0	10.0	07/18/2024	ND						

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 28 1FT (H244292-28)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	48.0	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 53.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 49.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 29 1FT (H244292-29)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	144	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 30 1FT (H244292-30)

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	07/19/2024	ND	1.96	97.8	2.00	4.97	
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	96.0	16.0	07/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97	
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 31 1FT (H244292-31)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	128	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 32 1FT (H244292-32)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	32.0	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 33 1FT (H244292-33)

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	07/19/2024	ND	1.96	97.8	2.00	4.97		
Toluene*	<0.050	0.050	07/19/2024	ND	1.93	96.7	2.00	4.60		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.96	97.8	2.00	4.92		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.75	95.8	6.00	4.91		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	112	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 34 1FT (H244292-34)

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	07/19/2024	ND	1.95	97.3	2.00	2.33		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	160	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 35 1FT (H244292-35)

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	07/19/2024	ND	1.95	97.3	2.00	2.33		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

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

Received:	07/18/2024	Sampling Date:	07/17/2024
Reported:	07/23/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS 24 - 36 1FT (H244292-36)

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	07/19/2024	ND	1.95	97.3	2.00	2.33		
Toluene*	<0.050	0.050	07/19/2024	ND	1.91	95.3	2.00	1.13		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	2.00	100	2.00	0.996		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.90	98.3	6.00	0.866		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	144	16.0	07/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	197	98.6	200	7.97		
DRO >C10-C28*	<10.0	10.0	07/19/2024	ND	214	107	200	11.6		
EXT DRO >C28-C36	<10.0	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 49.1-148

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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.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey 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 Resource Services Project Manager: Michael Moffitt Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2681 Fax #: Project #: 23E-02248 Project Owner: Project Name: Dayton Recycle Release Project Location: Eddy County, NM Sampler Name: Fernando Rodriguez		BILL TO P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St. City: Artesia State: NM Zip: 88210 Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D.: BS24-01 1ft Sample I.D.: BS24-02 1ft BS24-03 1ft BS24-04 1ft BS24-05 1ft BS24-06 1ft BS24-07 1ft BS24-08 1ft BS24-09 1ft BS24-10 1ft BS24-11 1ft BS24-12 1ft		MATRIX (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE ICE / COOL OTHER : PRESERV SAMPLING	
DATE TIME		TPH: (8015) EXT BTEX (8021B) Chloride (SM 4500)	
BS24-01 1ft C 1 X BS24-02 1ft C 1 X BS24-03 1ft C 1 X BS24-04 1ft C 1 X BS24-05 1ft C 1 X BS24-06 1ft C 1 X BS24-07 1ft C 1 X BS24-08 1ft C 1 X BS24-09 1ft C 1 X BS24-10 1ft C 1 X BS24-11 1ft C 1 X BS24-12 1ft C 1 X		7/17/24 9:00 X 7/17/24 9:05 X 7/17/24 9:10 X 7/17/24 9:15 X 7/17/24 9:20 X 7/17/24 9:25 X 7/17/24 9:30 X 7/17/24 9:35 X 7/17/24 9:40 X 7/17/24 9:45 X 7/17/24 9:50 X 7/17/24 9:55 X	

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Relinquished By: [Signature] Date: 7-18-24 Received By: [Signature] Date: 7-18-24

Delivered By: (Circle One) 4.3i
 Sampler - UPS - Bus - Other: #140

Sample Condition: Cool Intact
 No Yes

Checked By: [Signature]

REMARKS: Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____

3. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Michael Moffitt		Company: Silverback Exploration		Attn: Mark Ritchie			
Address: 3101 Boyd Dr		Address: 108 S. 4th St.		City: Artesia			
City: Carlsbad		State: NM		Zip: 88210			
Phone #: 575-988-2681		Fax #:		Phone #:			
Project #: 23E-02248		Project Owner:		State: NM		Zip: 88210	
Project Name: Daylon Recycle Release		Project Location: Eddy County, NM		Phone #:			
Sampler Name: Fernando Rodriguez		FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D. H044322		Sample I.D.		DATE		TIME	
13		BS24-13 1ft		7/17/24		10:00	
14		BS24-14 1ft		7/17/24		10:05	
15		BS24-15 1ft		7/17/24		10:10	
16		BS24-16 1ft		7/17/24		10:15	
17		BS24-17 1ft		7/17/24		10:20	
18		BS24-18 1ft		7/17/24		10:25	
19		BS24-19 1ft		7/17/24		10:30	
20		BS24-20 1ft		7/17/24		10:35	
21		BS24-21 1ft		7/17/24		10:40	
22		BS24-22 1ft		7/17/24		10:45	
23		BS24-23 1ft		7/17/24		10:50	
24		BS24-24 1ft		7/17/24		10:55	

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Relinquished By: [Signature] Date: 08/5/20 Time: []

Received By: S. Rodriguez Date: 08/5/20 Time: []

Delivered By: (Circle One) 4.3c
Cool Intact Yes No
Sample Condition Yes No
Checked By: SR

REMARKS: Direct bill to Silverback Exploration
Email results to: mmoffitt@vertex.ca & fdriguez@vertex.ca



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services Project Manager: Michael Moffitt Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2681 Fax #: Project #: 23E-02248 Project Owner: Project Name: Dayton Recycle Release Project Location: Eddy County, NM Sampler Name: Fernando Rodriguez		BILL TO P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St. City: Artesia State: NM Zip: 88210 Phone #: Fax #:		ANALYSIS REQUEST	
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 analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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.					
Relinquished By: [Signature] Date: 9-18-24 Time: 0850	Received By: [Signature: S. Rodriguez] Date: _____ Time: _____	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	REMARKS: Direct bill to Silverback Exploration Email results to: mmoffitt@vertex.ca & fRodriguez@vertex.ca		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>4.3</u> FORM-006 R 2.0	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	CHECKED BY: [Signature: SR]			
Lab I.D.: <u>1440</u> Sample I.D.: BS24-25 1ft BS24-26 1ft BS24-27 1ft BS24-28 1ft BS24-29 1ft BS24-30 1ft BS24-31 1ft BS24-32 1ft BS24-33 1ft BS24-34 1ft BS24-35 1ft BS24-36 1ft	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME	TPH: (8015) EXT BTEX (8021B) Chloride (SM 4500)	
	C 1	X	7/17/24	11:00	X
	C 1	X	7/17/24	11:05	X
	C 1	X	7/17/24	11:10	X
	C 1	X	7/17/24	11:15	X
	C 1	X	7/17/24	11:20	X
	C 1	X	7/17/24	11:25	X
	C 1	X	7/17/24	11:30	X
	C 1	X	7/17/24	11:35	X
	C 1	X	7/17/24	11:40	X
	C 1	X	7/17/24	11:45	X
	C 1	X	7/17/24	11:50	X
	C 1	X	7/17/24	11:55	X

5. Please fax written changes to 575-393-2476



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

July 11, 2023

Mike Moffit

Silverback Exploration
19707 IH10 W Suit 201
San Antonio, TX 78257
TEL: (210) 585-3316
FAX:

RE: Dayton Recycle Release

OrderNo.: 2306E94

Dear Mike Moffit:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/29/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-75 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:00:00 AM

Lab ID: 2306E94-001

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/1/2023 2:42:36 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/1/2023 2:42:36 AM
Surr: DNOP	102	69-147		%Rec	1	7/1/2023 2:42:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/30/2023 4:30:00 PM
Surr: BFB	99.5	15-244		%Rec	1	6/30/2023 4:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 4:30:00 PM
Toluene	ND	0.049		mg/Kg	1	6/30/2023 4:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/30/2023 4:30:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2023 4:30:00 PM
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	6/30/2023 4:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	310	60		mg/Kg	20	7/3/2023 9:02:42 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-76 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:10:00 AM

Lab ID: 2306E94-002

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/1/2023 2:53:37 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2023 2:53:37 AM
Surr: DNOP	102	69-147		%Rec	1	7/1/2023 2:53:37 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2023 5:35:00 PM
Surr: BFB	99.7	15-244		%Rec	1	6/30/2023 5:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/30/2023 5:35:00 PM
Toluene	ND	0.050		mg/Kg	1	6/30/2023 5:35:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2023 5:35:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/30/2023 5:35:00 PM
Surr: 4-Bromofluorobenzene	93.2	39.1-146		%Rec	1	6/30/2023 5:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	300	60		mg/Kg	20	7/3/2023 9:15:06 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-77 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:20:00 AM

Lab ID: 2306E94-003

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/1/2023 3:15:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2023 3:15:32 AM
Surr: DNOP	95.3	69-147		%Rec	1	7/1/2023 3:15:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2023 6:41:00 PM
Surr: BFB	95.9	15-244		%Rec	1	6/30/2023 6:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/30/2023 6:41:00 PM
Toluene	ND	0.050		mg/Kg	1	6/30/2023 6:41:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2023 6:41:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/30/2023 6:41:00 PM
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	6/30/2023 6:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	7/3/2023 9:27:31 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-78 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:30:00 AM

Lab ID: 2306E94-004

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/1/2023 3:26:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2023 3:26:32 AM
Surr: DNOP	103	69-147		%Rec	1	7/1/2023 3:26:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2023 7:03:00 PM
Surr: BFB	94.5	15-244		%Rec	1	6/30/2023 7:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 7:03:00 PM
Toluene	ND	0.048		mg/Kg	1	6/30/2023 7:03:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2023 7:03:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/30/2023 7:03:00 PM
Surr: 4-Bromofluorobenzene	92.1	39.1-146		%Rec	1	6/30/2023 7:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	170	60		mg/Kg	20	7/3/2023 10:04:45 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-79 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:40:00 AM

Lab ID: 2306E94-005

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/1/2023 3:37:35 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/1/2023 3:37:35 AM
Surr: DNOP	102	69-147		%Rec	1	7/1/2023 3:37:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2023 7:25:00 PM
Surr: BFB	92.2	15-244		%Rec	1	6/30/2023 7:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/30/2023 7:25:00 PM
Toluene	ND	0.050		mg/Kg	1	6/30/2023 7:25:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2023 7:25:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/30/2023 7:25:00 PM
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	6/30/2023 7:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	240	59		mg/Kg	20	7/3/2023 10:17:08 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-80 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 10:50:00 AM

Lab ID: 2306E94-006

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/1/2023 3:48:39 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/1/2023 3:48:39 AM
Surr: DNOP	116	69-147		%Rec	1	7/1/2023 3:48:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/30/2023 7:47:00 PM
Surr: BFB	91.8	15-244		%Rec	1	6/30/2023 7:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/30/2023 7:47:00 PM
Toluene	ND	0.049		mg/Kg	1	6/30/2023 7:47:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/30/2023 7:47:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/30/2023 7:47:00 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	6/30/2023 7:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	450	60		mg/Kg	20	7/3/2023 10:29:33 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-81 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:00:00 AM

Lab ID: 2306E94-007

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/1/2023 3:59:43 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/1/2023 3:59:43 AM
Surr: DNOP	94.2	69-147		%Rec	1	7/1/2023 3:59:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/30/2023 8:08:00 PM
Surr: BFB	95.3	15-244		%Rec	1	6/30/2023 8:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	6/30/2023 8:08:00 PM
Toluene	ND	0.047		mg/Kg	1	6/30/2023 8:08:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/30/2023 8:08:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	6/30/2023 8:08:00 PM
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	6/30/2023 8:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	410	60		mg/Kg	20	7/5/2023 7:38:26 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order 2306E94

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-82 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:10:00 AM

Lab ID: 2306E94-008

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/1/2023 4:10:48 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/1/2023 4:10:48 AM
Surr: DNOP	91.8	69-147		%Rec	1	7/1/2023 4:10:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2023 8:30:00 PM
Surr: BFB	93.3	15-244		%Rec	1	6/30/2023 8:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 8:30:00 PM
Toluene	ND	0.048		mg/Kg	1	6/30/2023 8:30:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2023 8:30:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/30/2023 8:30:00 PM
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	6/30/2023 8:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	270	60		mg/Kg	20	7/5/2023 7:50:47 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-83 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:20:00 AM

Lab ID: 2306E94-009

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/1/2023 4:22:05 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/1/2023 4:22:05 AM
Surr: DNOP	97.3	69-147		%Rec	1	7/1/2023 4:22:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/30/2023 8:52:00 PM
Surr: BFB	92.5	15-244		%Rec	1	6/30/2023 8:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 8:52:00 PM
Toluene	ND	0.049		mg/Kg	1	6/30/2023 8:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/30/2023 8:52:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2023 8:52:00 PM
Surr: 4-Bromofluorobenzene	90.3	39.1-146		%Rec	1	6/30/2023 8:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	320	60		mg/Kg	20	7/5/2023 8:03:08 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order 2306E94

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-84 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:30:00 AM

Lab ID: 2306E94-010

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/1/2023 4:33:20 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2023 4:33:20 AM
Surr: DNOP	95.4	69-147		%Rec	1	7/1/2023 4:33:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2023 9:14:00 PM
Surr: BFB	92.7	15-244		%Rec	1	6/30/2023 9:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 9:14:00 PM
Toluene	ND	0.048		mg/Kg	1	6/30/2023 9:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2023 9:14:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	6/30/2023 9:14:00 PM
Surr: 4-Bromofluorobenzene	90.6	39.1-146		%Rec	1	6/30/2023 9:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	340	60		mg/Kg	20	7/5/2023 8:15:28 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: **7/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-85 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:40:00 AM

Lab ID: 2306E94-011

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/1/2023 4:44:33 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/1/2023 4:44:33 AM
Surr: DNOP	96.0	69-147		%Rec	1	7/1/2023 4:44:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2023 10:19:00 PM
Surr: BFB	93.1	15-244		%Rec	1	6/30/2023 10:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	6/30/2023 10:19:00 PM
Toluene	ND	0.048		mg/Kg	1	6/30/2023 10:19:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2023 10:19:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/30/2023 10:19:00 PM
Surr: 4-Bromofluorobenzene	89.7	39.1-146		%Rec	1	6/30/2023 10:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	300	60		mg/Kg	20	7/5/2023 8:27:48 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306E94**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-86 1.0'

Project: Dayton Recycle Release

Collection Date: 6/27/2023 11:50:00 AM

Lab ID: 2306E94-012

Matrix: SOIL

Received Date: 6/29/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/1/2023 4:55:44 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/1/2023 4:55:44 AM
Surr: DNOP	98.8	69-147		%Rec	1	7/1/2023 4:55:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/30/2023 10:40:00 PM
Surr: BFB	90.9	15-244		%Rec	1	6/30/2023 10:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	6/30/2023 10:40:00 PM
Toluene	ND	0.049		mg/Kg	1	6/30/2023 10:40:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/30/2023 10:40:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/30/2023 10:40:00 PM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	6/30/2023 10:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	260	60		mg/Kg	20	7/5/2023 8:40:09 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E94

11-Jul-23

Client: Silverback Exploration
Project: Dayton Recycle Release

Sample ID: MB-75965	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 75965	RunNo: 97896								
Prep Date: 7/3/2023	Analysis Date: 7/3/2023	SeqNo: 3561641	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-75965	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 75965	RunNo: 97896								
Prep Date: 7/3/2023	Analysis Date: 7/3/2023	SeqNo: 3561642	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-75989	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 75989	RunNo: 97962								
Prep Date: 7/5/2023	Analysis Date: 7/5/2023	SeqNo: 3565017	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-75989	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 75989	RunNo: 97962								
Prep Date: 7/5/2023	Analysis Date: 7/5/2023	SeqNo: 3565018	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E94

11-Jul-23

Client: Silverback Exploration
Project: Dayton Recycle Release

Sample ID: LCS-75945	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 75945		RunNo: 97879							
Prep Date: 6/30/2023	Analysis Date: 7/1/2023		SeqNo: 3560509		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	61.9	130			
Surr: DNOP	4.5		5.000		89.6	69	147			

Sample ID: MB-75945	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 75945		RunNo: 97879							
Prep Date: 6/30/2023	Analysis Date: 7/1/2023		SeqNo: 3560513		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E94

11-Jul-23

Client: Silverback Exploration
Project: Dayton Recycle Release

Sample ID: ics-75931	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 75931	RunNo: 97874								
Prep Date: 6/29/2023	Analysis Date: 6/30/2023	SeqNo: 3560277	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	84.9	70	130			
Surr: BFB	2000		1000		204	15	244			

Sample ID: mb-75931	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 75931	RunNo: 97874								
Prep Date: 6/29/2023	Analysis Date: 6/30/2023	SeqNo: 3560278	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.3	15	244			

Sample ID: 2306E94-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES23-75 1.0'	Batch ID: 75931	RunNo: 97874								
Prep Date: 6/29/2023	Analysis Date: 6/30/2023	SeqNo: 3560280	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.27	0	98.3	70	130			
Surr: BFB	2200		970.9		225	15	244			

Sample ID: 2306E94-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES23-75 1.0'	Batch ID: 75931	RunNo: 97874								
Prep Date: 6/29/2023	Analysis Date: 6/30/2023	SeqNo: 3560281	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.30	0	99.7	70	130	1.47	20	
Surr: BFB	2200		971.8		226	15	244	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306E94

11-Jul-23

Client: Silverback Exploration
Project: Dayton Recycle Release

Sample ID: ics-75931	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 75931		RunNo: 97874							
Prep Date: 6/29/2023	Analysis Date: 6/30/2023		SeqNo: 3560297		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.2	70	130			
Toluene	0.89	0.050	1.000	0	89.2	70	130			
Ethylbenzene	0.90	0.050	1.000	0	90.2	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.1	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	39.1	146			

Sample ID: mb-75931	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 75931		RunNo: 97874							
Prep Date: 6/29/2023	Analysis Date: 6/30/2023		SeqNo: 3560298		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	39.1	146			

Sample ID: 2306E94-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-76 1.0'	Batch ID: 75931		RunNo: 97874							
Prep Date: 6/29/2023	Analysis Date: 6/30/2023		SeqNo: 3560301		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9911	0	100	70	130			
Toluene	1.0	0.050	0.9911	0	103	70	130			
Ethylbenzene	1.0	0.050	0.9911	0	105	70	130			
Xylenes, Total	3.1	0.099	2.973	0	105	70	130			
Surr: 4-Bromofluorobenzene	0.93		0.9911		93.9	39.1	146			

Sample ID: 2306E94-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-76 1.0'	Batch ID: 75931		RunNo: 97874							
Prep Date: 6/29/2023	Analysis Date: 6/30/2023		SeqNo: 3560302		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9911	0	94.9	70	130	5.29	20	
Toluene	0.97	0.050	0.9911	0	97.8	70	130	5.51	20	
Ethylbenzene	0.98	0.050	0.9911	0	99.4	70	130	5.92	20	
Xylenes, Total	3.0	0.099	2.973	0	99.5	70	130	5.57	20	
Surr: 4-Bromofluorobenzene	0.93		0.9911		93.7	39.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Silverback Exploration Work Order Number: 2306E94 RcptNo: 1

Received By: Tracy Casarrubias 6/29/2023 7:20:00 AM

Completed By: Tracy Casarrubias 6/29/2023 8:14:13 AM

Reviewed By: [Signature] 6-29-23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?
Checked by: SCM 06/29/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: Mailing address, phone number, and Email/Fax are missing on COC - TMC 6/29/23

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, -1.4, Good, Yes, Yogi, [], []

Chain-of-Custody Record

Client: Silverback Exploration

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush 5 Day

Project Name:

Dayton Recycle Release

Project #:

23E-02248

Project Manager:

Mike Morrish

Sampler:

On Ice: Yes No NO

of Coolers:

Cooler Temp (including CF): -1.4-0:-1.4 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<u>6/27-23</u>	<u>1000</u>	<u>Soil</u>	<u>BES23-75</u>	<u>402</u>	<u>ICE</u>	<u>7306694</u>
	<u>1010</u>		<u>BES23-76</u>			<u>001</u>
	<u>1020</u>		<u>BES23-77</u>			<u>002</u>
	<u>1030</u>		<u>BES23-78</u>			<u>003</u>
	<u>1040</u>		<u>BES23-79</u>			<u>004</u>
	<u>1050</u>		<u>BES23-80</u>			<u>005</u>
	<u>1100</u>		<u>BES23-81</u>			<u>006</u>
	<u>1110</u>		<u>BES23-82</u>			<u>007</u>
	<u>1120</u>		<u>BES23-83</u>			<u>008</u>
	<u>1130</u>		<u>BES23-84</u>			<u>009</u>
	<u>1140</u>		<u>BES23-85</u>			<u>010</u>
	<u>1150</u>		<u>BES23-86</u>			<u>011</u>

Date: 6/27/23 Time: 1900

Date: 6/29/23 Time: 7:20

Relinquished by:

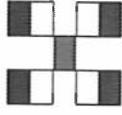
Relinquished by:

Received by: [Signature]

Received by: [Signature]

Date: 6/29/23 Time: 7:20

Date: 6/29/23 Time: 7:20



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)	<input type="checkbox"/> TPH 8015D (GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCB's	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)
--	--	---	---	---	--	---	-------------------------------------	--	--

Remarks:



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

July 11, 2023

Mike Moffit

Silverback Exploration
19707 IH10 W Suit 201
San Antonio, TX 78257
TEL: (210) 585-3316
FAX:

RE: Dayton Recycle Release

OrderNo.: 2306G15

Dear Mike Moffit:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/30/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-87 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:00:00 AM

Lab ID: 2306G15-001

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/3/2023 1:54:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2023 1:54:43 PM
Surr: DNOP	90.9	69-147		%Rec	1	7/3/2023 1:54:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 10:51:00 AM
Surr: BFB	93.0	15-244		%Rec	1	7/3/2023 10:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 10:51:00 AM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 10:51:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 10:51:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2023 10:51:00 AM
Surr: 4-Bromofluorobenzene	92.9	39.1-146		%Rec	1	7/3/2023 10:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	340	60		mg/Kg	20	7/6/2023 2:25:50 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: **7/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-88 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:10:00 AM

Lab ID: 2306G15-002

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/3/2023 2:05:22 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/3/2023 2:05:22 PM
Surr: DNOP	91.1	69-147		%Rec	1	7/3/2023 2:05:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2023 11:56:00 AM
Surr: BFB	94.8	15-244		%Rec	1	7/3/2023 11:56:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/3/2023 11:56:00 AM
Toluene	ND	0.049		mg/Kg	1	7/3/2023 11:56:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2023 11:56:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/3/2023 11:56:00 AM
Surr: 4-Bromofluorobenzene	92.7	39.1-146		%Rec	1	7/3/2023 11:56:00 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	360	60		mg/Kg	20	7/6/2023 2:38:11 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: **7/11/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-89 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:20:00 AM

Lab ID: 2306G15-003

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/3/2023 2:16:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2023 2:16:01 PM
Surr: DNOP	89.2	69-147		%Rec	1	7/3/2023 2:16:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2023 1:01:00 PM
Surr: BFB	93.9	15-244		%Rec	1	7/3/2023 1:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	7/3/2023 1:01:00 PM
Toluene	ND	0.046		mg/Kg	1	7/3/2023 1:01:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2023 1:01:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/3/2023 1:01:00 PM
Surr: 4-Bromofluorobenzene	92.1	39.1-146		%Rec	1	7/3/2023 1:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	320	60		mg/Kg	20	7/6/2023 2:50:32 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-90 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:30:00 AM

Lab ID: 2306G15-004

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/3/2023 2:26:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2023 2:26:41 PM
Surr: DNOP	90.6	69-147		%Rec	1	7/3/2023 2:26:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 1:23:00 PM
Surr: BFB	95.3	15-244		%Rec	1	7/3/2023 1:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 1:23:00 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 1:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 1:23:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2023 1:23:00 PM
Surr: 4-Bromofluorobenzene	91.2	39.1-146		%Rec	1	7/3/2023 1:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	120	60		mg/Kg	20	7/6/2023 3:02:52 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-91 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:40:00 AM

Lab ID: 2306G15-005

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/3/2023 2:37:22 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/3/2023 2:37:22 PM
Surr: DNOP	85.7	69-147		%Rec	1	7/3/2023 2:37:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 1:45:00 PM
Surr: BFB	93.4	15-244		%Rec	1	7/3/2023 1:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 1:45:00 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 1:45:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 1:45:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2023 1:45:00 PM
Surr: 4-Bromofluorobenzene	92.2	39.1-146		%Rec	1	7/3/2023 1:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	190	60		mg/Kg	20	7/6/2023 3:15:13 AM

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

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Above Quantitation Range/Estimated Value |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of standard limits. If undiluted results may be estimated. | |

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-92 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 10:50:00 AM

Lab ID: 2306G15-006

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/3/2023 2:48:05 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/3/2023 2:48:05 PM
Surr: DNOP	89.0	69-147		%Rec	1	7/3/2023 2:48:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2023 2:06:00 PM
Surr: BFB	94.2	15-244		%Rec	1	7/3/2023 2:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/3/2023 2:06:00 PM
Toluene	ND	0.049		mg/Kg	1	7/3/2023 2:06:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2023 2:06:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/3/2023 2:06:00 PM
Surr: 4-Bromofluorobenzene	92.4	39.1-146		%Rec	1	7/3/2023 2:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	260	60		mg/Kg	20	7/6/2023 3:27:33 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-93 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:00:00 AM

Lab ID: 2306G15-007

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2023 2:58:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/3/2023 2:58:48 PM
Surr: DNOP	89.4	69-147		%Rec	1	7/3/2023 2:58:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 2:28:00 PM
Surr: BFB	95.8	15-244		%Rec	1	7/3/2023 2:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 2:28:00 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 2:28:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 2:28:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/3/2023 2:28:00 PM
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	7/3/2023 2:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	300	60		mg/Kg	20	7/6/2023 3:39:54 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-94 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:10:00 AM

Lab ID: 2306G15-008

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/3/2023 3:20:14 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/3/2023 3:20:14 PM
Surr: DNOP	96.7	69-147		%Rec	1	7/3/2023 3:20:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2023 2:50:00 PM
Surr: BFB	95.8	15-244		%Rec	1	7/3/2023 2:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.025		mg/Kg	1	7/3/2023 2:50:00 PM
Toluene	ND	0.050		mg/Kg	1	7/3/2023 2:50:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2023 2:50:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2023 2:50:00 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146		%Rec	1	7/3/2023 2:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	420	60		mg/Kg	20	7/6/2023 3:52:15 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-95 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:20:00 AM

Lab ID: 2306G15-009

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/3/2023 3:30:59 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/3/2023 3:30:59 PM
Surr: DNOP	82.3	69-147		%Rec	1	7/3/2023 3:30:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2023 3:12:00 PM
Surr: BFB	97.7	15-244		%Rec	1	7/3/2023 3:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 3:12:00 PM
Toluene	ND	0.047		mg/Kg	1	7/3/2023 3:12:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2023 3:12:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/3/2023 3:12:00 PM
Surr: 4-Bromofluorobenzene	93.8	39.1-146		%Rec	1	7/3/2023 3:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	180	60		mg/Kg	20	7/6/2023 4:04:35 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-96 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:30:00 AM

Lab ID: 2306G15-010

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/3/2023 3:41:47 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/3/2023 3:41:47 PM
Surr: DNOP	82.0	69-147		%Rec	1	7/3/2023 3:41:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2023 3:34:00 PM
Surr: BFB	98.9	15-244		%Rec	1	7/3/2023 3:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 3:34:00 PM
Toluene	ND	0.049		mg/Kg	1	7/3/2023 3:34:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2023 3:34:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/3/2023 3:34:00 PM
Surr: 4-Bromofluorobenzene	95.2	39.1-146		%Rec	1	7/3/2023 3:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	300	60		mg/Kg	20	7/6/2023 4:41:37 AM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-97 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:40:00 AM

Lab ID: 2306G15-011

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2023 3:52:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/3/2023 3:52:37 PM
Surr: DNOP	81.2	69-147		%Rec	1	7/3/2023 3:52:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2023 4:17:00 PM
Surr: BFB	94.4	15-244		%Rec	1	7/3/2023 4:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 4:17:00 PM
Toluene	ND	0.047		mg/Kg	1	7/3/2023 4:17:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2023 4:17:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	7/3/2023 4:17:00 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146		%Rec	1	7/3/2023 4:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	320	60		mg/Kg	20	7/6/2023 2:41:25 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-98 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 11:50:00 AM

Lab ID: 2306G15-012

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	7/3/2023 4:03:28 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	7/3/2023 4:03:28 PM
Surr: DNOP	83.6	69-147		%Rec	1	7/3/2023 4:03:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 4:39:00 PM
Surr: BFB	96.0	15-244		%Rec	1	7/3/2023 4:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 4:39:00 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 4:39:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 4:39:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2023 4:39:00 PM
Surr: 4-Bromofluorobenzene	93.6	39.1-146		%Rec	1	7/3/2023 4:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	330	60		mg/Kg	20	7/6/2023 3:18:27 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-99 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 12:00:00 PM

Lab ID: 2306G15-013

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2023 4:14:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/3/2023 4:14:24 PM
Surr: DNOP	83.4	69-147		%Rec	1	7/3/2023 4:14:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2023 5:01:00 PM
Surr: BFB	98.4	15-244		%Rec	1	7/3/2023 5:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 5:01:00 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2023 5:01:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2023 5:01:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2023 5:01:00 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146		%Rec	1	7/3/2023 5:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	230	60		mg/Kg	20	7/6/2023 3:30:47 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2306G15**

Date Reported: 7/11/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Silverback Exploration

Client Sample ID: BES23-100 1.0'

Project: Dayton Recycle Release

Collection Date: 6/28/2023 12:10:00 PM

Lab ID: 2306G15-014

Matrix: SOIL

Received Date: 6/30/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	7/3/2023 4:25:15 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	7/3/2023 4:25:15 PM
Surr: DNOP	87.8	69-147		%Rec	1	7/3/2023 4:25:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2023 5:23:00 PM
Surr: BFB	98.1	15-244		%Rec	1	7/3/2023 5:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	7/3/2023 5:23:00 PM
Toluene	ND	0.049		mg/Kg	1	7/3/2023 5:23:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2023 5:23:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/3/2023 5:23:00 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146		%Rec	1	7/3/2023 5:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	200	60		mg/Kg	20	7/6/2023 3:43:08 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306G15

11-Jul-23

Client: Silverback Exploration

Project: Dayton Recycle Release

Sample ID: MB-75999	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 75999	RunNo: 97962								
Prep Date: 7/5/2023	Analysis Date: 7/5/2023	SeqNo: 3565068	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-75999	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 75999	RunNo: 97962								
Prep Date: 7/5/2023	Analysis Date: 7/5/2023	SeqNo: 3565069	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Sample ID: MB-76022	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 76022	RunNo: 98000								
Prep Date: 7/6/2023	Analysis Date: 7/6/2023	SeqNo: 3565752	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-76022	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 76022	RunNo: 98000								
Prep Date: 7/6/2023	Analysis Date: 7/6/2023	SeqNo: 3565753	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306G15

11-Jul-23

Client: Silverback Exploration
Project: Dayton Recycle Release

Sample ID: LCS-75963	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 75963		RunNo: 97898							
Prep Date: 7/3/2023	Analysis Date: 7/3/2023		SeqNo: 3561773		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.2	61.9	130			
Surr: DNOP	4.5		5.000		90.4	69	147			

Sample ID: MB-75963	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 75963		RunNo: 97898							
Prep Date: 7/3/2023	Analysis Date: 7/3/2023		SeqNo: 3561774		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.0	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306G15

11-Jul-23

Client: Silverback Exploration

Project: Dayton Recycle Release

Sample ID: ics-75950	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 75950	RunNo: 97902								
Prep Date: 6/30/2023	Analysis Date: 7/3/2023	SeqNo: 3561967	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	70	130			
Surr: BFB	2000		1000		203	15	244			

Sample ID: mb-75950	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 75950	RunNo: 97902								
Prep Date: 6/30/2023	Analysis Date: 7/3/2023	SeqNo: 3561968	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.0	15	244			

Sample ID: 2306G15-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES23-87 1.0'	Batch ID: 75950	RunNo: 97902								
Prep Date: 6/30/2023	Analysis Date: 7/3/2023	SeqNo: 3561970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.70	0	96.2	70	130			
Surr: BFB	2000		947.9		212	15	244			

Sample ID: 2306G15-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES23-87 1.0'	Batch ID: 75950	RunNo: 97902								
Prep Date: 6/30/2023	Analysis Date: 7/3/2023	SeqNo: 3561971	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.70	0	92.7	70	130	3.69	20	
Surr: BFB	2000		947.9		210	15	244	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306G15

11-Jul-23

Client: Silverback Exploration

Project: Dayton Recycle Release

Sample ID: ics-75950	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 75950		RunNo: 97902							
Prep Date: 6/30/2023	Analysis Date: 7/3/2023		SeqNo: 3561991		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.5	70	130			
Toluene	0.91	0.050	1.000	0	90.5	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.9	70	130			
Xylenes, Total	2.7	0.10	3.000	0	91.4	70	130			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	39.1	146			

Sample ID: mb-75950	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 75950		RunNo: 97902							
Prep Date: 6/30/2023	Analysis Date: 7/3/2023		SeqNo: 3561992		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.5	39.1	146			

Sample ID: 2306G15-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-88 1.0'	Batch ID: 75950		RunNo: 97902							
Prep Date: 6/30/2023	Analysis Date: 7/3/2023		SeqNo: 3561995		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9823	0	89.9	70	130			
Toluene	0.92	0.049	0.9823	0	93.3	70	130			
Ethylbenzene	0.93	0.049	0.9823	0	94.5	70	130			
Xylenes, Total	2.8	0.098	2.947	0	94.0	70	130			
Surr: 4-Bromofluorobenzene	0.91		0.9823		92.8	39.1	146			

Sample ID: 2306G15-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-88 1.0'	Batch ID: 75950		RunNo: 97902							
Prep Date: 6/30/2023	Analysis Date: 7/3/2023		SeqNo: 3561996		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9852	0	89.2	70	130	0.510	20	
Toluene	0.92	0.049	0.9852	0	93.1	70	130	0.103	20	
Ethylbenzene	0.94	0.049	0.9852	0	95.0	70	130	0.870	20	
Xylenes, Total	2.8	0.099	2.956	0	94.7	70	130	1.04	20	
Surr: 4-Bromofluorobenzene	0.90		0.9852		91.8	39.1	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Silverback Exploration Work Order Number: 2306G15 RcptNo: 1

Received By: Juan Rojas 6/30/2023 7:30:00 AM
Completed By: Tracy Casarrubias 6/30/2023 8:06:34 AM
Reviewed By: ju 6/30/23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: SCM 06/30/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: Mailing address, phone number and Email/Fax are missing on COC- TMC 6/30/23

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.2, Good, Yes, Yogi

Chain-of-Custody Record

Client: S/Overbeck
 Mailing Address: Direct B, I
 Phone #: _____
 email or Fax#: _____
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6-28-23	1000	Soil	BES23-87	402	ICE	2300615
	1010		BES23-88			001
	1020		BES23-89			002
	1030		BES23-90			003
	1040		BES23-91			004
	1050		BES23-92			005
	1100		BES23-93			006
	1110		BES23-94			007
	1120		BES23-95			008
	1130		BES23-96			009
	1140		BES23-97			010
	1150		BES23-98			011

Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____

Turn-Around Time: Standard Rush 5 DAY
 Project Name: Dorton Recycle Release
 Project #: 23E-02248

Project Manager: Mike Mo FFT
 Sampler: MT
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CP): 2.1 to 2.2 (°C)

Analysis Request	TPH8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTEX / MTBE / TMB's (8021)	✓								

Received by: XXXXXXXXXX Date: 6/30/23 Time: 7:30
 Received by: XXXXXXXXXX Date: 6/30/23 Time: 7:30



www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Analysis Request	TPH8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTEX / MTBE / TMB's (8021)	✓								

Remarks: CC: Mike Mo FFT



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

April 15, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/09/24 15:21.

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 style with a large, prominent "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 101 1FT (H241841-01)

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	04/10/2024	ND	2.12	106	2.00	1.37	
Toluene*	<0.050	0.050	04/10/2024	ND	2.22	111	2.00	2.30	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.27	114	2.00	2.93	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	6.75	113	6.00	2.86	
Total BTEX	<0.300	0.300	04/10/2024	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	<16.0	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 102 1FT (H241841-02)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 104 1FT (H241841-03)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 105 1FT (H241841-04)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	112	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 109 1FT (H241841-05)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	112	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 112 1FT (H241841-06)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 115 1FT (H241841-07)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 121 1FT (H241841-08)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-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	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 122 1FT (H241841-09)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	112	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 131 1FT (H241841-10)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 133 1FT (H241841-11)

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	04/10/2024	ND	2.26	113	2.00	3.34	
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	80.0	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 106 1FT (H241841-12)

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	04/10/2024	ND	2.26	113	2.00	3.34	
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	656	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 107 1FT (H241841-13)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	04/10/2024	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	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 117 1FT (H241841-14)

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	04/10/2024	ND	2.26	113	2.00	3.34	
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	320	16.0	04/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	191	95.5	200	2.79	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 129 1FT (H241841-15)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	816	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	191	95.5	200	2.79		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	185	92.7	200	1.45		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.1 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 134 1FT (H241841-16)

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	04/10/2024	ND	2.26	113	2.00	3.34	
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	352	16.0	04/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/02/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 135 1FT (H241841-17)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	320	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 62.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 55 1FT (H241841-18)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	80.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 57 1FT (H241841-19)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.2 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 66 1FT (H241841-20)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	48.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 145 1FT (H241841-21)

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	04/10/2024	ND	2.26	113	2.00	3.34		
Toluene*	<0.050	0.050	04/10/2024	ND	2.34	117	2.00	10.9		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.46	123	2.00	13.8		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	7.45	124	6.00	14.8		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	192	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 148 1FT (H241841-22)

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	04/10/2024	ND	2.07	104	2.00	5.66	
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3	QM-07
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	192	16.0	04/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 64 1FT (H241841-23)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/03/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 139 1FT (H241841-24)

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	04/10/2024	ND	2.07	104	2.00	5.66	
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1	
Total BTEX	<0.300	0.300	04/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	384	16.0	04/10/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.5 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 38 1FT (H241841-25)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	144	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 39 1FT (H241841-26)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 40 1FT (H241841-27)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	16.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 41 1FT (H241841-28)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	160	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 43 1FT (H241841-29)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 45 1FT (H241841-30)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 46 1FT (H241841-31)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	80.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 47 1FT (H241841-32)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	16.0	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 48 1FT (H241841-33)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	128	16.0	04/10/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 49 1FT (H241841-34)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	160	16.0	04/10/2024	ND	432	108	400	0.00	QR-03	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2024	ND	196	98.1	200	1.88		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.2 % 49.1-148

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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 51 1FT (H241841-35)

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	04/10/2024	ND	2.07	104	2.00	5.66	
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58	
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3	
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1	
Total BTEX	<0.300	0.300	04/10/2024	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	96.0	16.0	04/10/2024	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	04/10/2024	ND	196	98.1	200	1.88	
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	190	95.2	200	6.08	
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 53 1FT (H241841-36)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/10/2024	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	04/10/2024	ND	201	100	200	2.49		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	199	99.5	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 37 1FT (H241841-37)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/10/2024	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	04/10/2024	ND	201	100	200	2.49		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	199	99.5	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/09/2024	Sampling Date:	04/04/2024
Reported:	04/15/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Dionica Hinojos
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 44 1FT (H241841-38)

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	04/10/2024	ND	2.07	104	2.00	5.66		
Toluene*	<0.050	0.050	04/10/2024	ND	2.42	121	2.00	7.58		
Ethylbenzene*	<0.050	0.050	04/10/2024	ND	2.66	133	2.00	11.3		
Total Xylenes*	<0.150	0.150	04/10/2024	ND	8.04	134	6.00	12.1		
Total BTEX	<0.300	0.300	04/10/2024	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	304	16.0	04/10/2024	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	04/10/2024	ND	201	100	200	2.49		
DRO >C10-C28*	<10.0	10.0	04/10/2024	ND	199	99.5	200	1.33		
EXT DRO >C28-C36	<10.0	10.0	04/10/2024	ND						

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services Project Manager: Michael Moffitt		P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St.	
Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220		Project Name: Dayton Recycle Release Project Location: Eddy County, NM Project Owner:	
Phone #: 575-988-2681 Fax #:		City: Artesia State: NM Zip: 88210 Phone #: Fax #:	
Sample Name: F. Rodriguez			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	RESERV.	SAMPLING	DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
	BS24-101 1tt	C	1	GROUNDWATER			4/2/24	9:00	X	X	X
	BS24-102 1tt	C	1	WASTEWATER			4/2/24	9:05	X	X	X
	BS24-104 1tt	C	1	SOIL			4/2/24	9:10	X	X	X
	BS24-105 1tt	C	1	OIL			4/2/24	9:15	X	X	X
	BS24-109 1tt	C	1	SLUDGE			4/2/24	9:20	X	X	X
	BS24-112 1tt	C	1	OTHER:			4/2/24	9:25	X	X	X
	BS24-115 1tt	C	1	ACID/BASE:			4/2/24	9:30	X	X	X
	BS24-121 1tt	C	1	ICE / COOL			4/2/24	9:35	X	X	X
	BS24-122 1tt	C	1	OTHER:			4/2/24	9:40	X	X	X
	BS24-131 1tt	C	1				4/2/24	9:45	X	X	X
	BS24-133 1tt	C	1				4/2/24	9:50	X	X	X

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Relinquished By: [Signature] Date: 4/9/24 Received By: [Signature] Date: 4/9/24

Relinquished By: [Signature] Date: 4/9/24 Received By: [Signature] Date: 4/9/24

Delivered By: (Circle One) UJRC

Sample Condition: Cool Intact

Checked By: [Signature] (Initials)

Remarks: [Blank]

Phone Result: Yes No Add'l Phone #: [Blank]

Fax Result: Yes No Add'l Fax #: [Blank]

Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services Project Manager: Michael Moffitt Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2681 Fax #: Project #: 23E-02248 Project Owner: Project Name: Dayton Recycle Release Project Location: Eddy County, NM Sampler Name: F. Rodriguez		P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St. City: Artesia State: NM Zip: 88210 Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. H41841 Sample I.D.		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE <input checked="" type="checkbox"/> COOL OTHER :	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' recourse (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 services. 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		ANALYSIS REQUEST TPH: (8015) EXT BTEX (8021B) Chloride (SM 4500)	
Relinquished By: <i>[Signature]</i> Date: 4-9-24 Time: 15:31 Received By: <i>[Signature]</i> Date: <i>[Blank]</i> Time: <i>[Blank]</i>	Delivered By: (Circle One) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Other: <i>[Blank]</i> Checked By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: <i>[Blank]</i> Add'l Fax #: <i>[Blank]</i>	REMARKS: Direct bill to Silverback Exploration Email results to: mmoffitt@vertex.ca

3. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO ANALYSIS REQUEST

Company Name: Vertex Resource Services
 Project Manager: Michael Moffitt
 Address: 3101 Boyd Dr
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575-988-2681 Fax #:
 Project #: 23E-02248 Project Owner:
 Project Name: Dayton Recycle Release
 Project Location: Eddy County, NM
 Sampler Name: F. Rodriguez
 P.O. #:
 Company: Silverback Exploration
 Attn: Mark Ritchie
 Address: 108 S. 4th St.
 City: Artesia
 State: NM Zip: 88210
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
14	BS24-55 1ft	C	1	X						4/3/24	9:00	X	X	X	
19	BS24-57 1ft	C	1	X						4/3/24	9:05	X	X	X	
20	BS24-66 1ft	C	1	X						4/3/24	9:10	X	X	X	
21	BS24-145 1ft	C	1	X						4/3/24	9:15	X	X	X	
22	BS24-148 1ft	C	1	X						4/3/24	9:20	X	X	X	
23	BS24-64 1ft	C	1	X						4/3/24	9:25	X	X	X	
24	BS24-139 1ft	C	1	X						4/3/24	9:30	X	X	X	

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Relinquished By: [Signature] Date: 4-9-24 Received By: [Signature] Date: 4-9-24
 Relinquished By: [Signature] Date: 4-9-24 Received By: [Signature] Date: 4-9-24
 Delivered By: (Circle One) 4. goc Sample Condition Cool Intact CHECKED BY: [Signature] (Initials)
 Sampler: [Signature] Other: #140 Yes No No No
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca

Please fax written changes to 575-393-2476



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services
Project Manager: Michael Moffitt
Address: 3101 Boyd Dr
City: Carlsbad **State:** NM **Zip:** 88220
Phone #: 575-988-2681 **Fax #:**
Project #: 23E-02248 **Project Owner:**
Project Name: Dayton Recycle Release
Project Location: Eddy County, NM
Sampler Name: F. Rodriguez

P.O. #:
Company: Silverback Exploration
Attn: Mark Ritchie
Address: 108 S. 4th St.
City: Artesia
State: NM **Zip:** 88210
Phone #:
Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
	BS24-38 1tt	C	1	X							4/4/24	9:00	X		
	BS24-39 1tt	C	1	X							4/4/24	9:05	X		
	BS24-40 1tt	C	1	X							4/4/24	9:10	X		
	BS24-41 1tt	C	1	X							4/4/24	9:15	X		
	BS24-43 1tt	C	1	X							4/4/24	9:20	X		
	BS24-45 1tt	C	1	X							4/4/24	9:25	X		
	BS24-46 1tt	C	1	X							4/4/24	9:30	X		
	BS24-47 1tt	C	1	X							4/4/24	9:35	X		
	BS24-48 1tt	C	1	X							4/4/24	9:40	X		
	BS24-49 1tt	C	1	X							4/4/24	9:45	X		
	BS24-51 1tt	C	1	X							4/4/24	9:50	X		
	BS24-53 1tt	C	1	X							4/4/24	9:55	X		

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Relinquished By: [Signature] **Date:** 4-8-24 **Received By:** [Signature] **Date:** 4-8-24
Relinquished By: [Signature] **Date:** 15:21 **Received By:** [Signature] **Date:** 15:21

Delivered By: (Circle One) 4-8-24
Sample ID: BS-206-R-Bygs - Other: #1440
Sample Condition: Cool Intact
 Yes No No
CHECKED BY: [Signature] (Initials)
 Phone Result: Yes No **Add'l Phone #:**
 Fax Result: Yes No **Add'l Fax #:**
REMARKS:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services
Project Manager: Michael Moffitt
Address: 3101 Boyd Dr
City: Carlsbad
State: NM **Zip:** 88220
Phone #: 575-988-2681
Fax #:
Project #: 23E-02248
Project Owner:
Project Name: Dayton Recycle Release
Project Location: Eddy County, NM
Sampler Name: F. Rodriguez
FOR LAB USE ONLY

Company: Silverback Exploration
Attn: Mark Ritchie
Address: 108 S. 4th St.
City: Artesia
State: NM **Zip:** 88210
Phone #:
Fax #:

P.O. #:
BILL TO
ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
4241841	BS24-37 1ft	C	1			X					4/4/24	10:00	X	X	X
	BS24-44 1ft	C	1			X					4/4/24	10:05	X	X	X

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Relinquished By: [Signature] **Date:** 4-8-24 **Received By:** [Signature] **Date:** 4-8-24
Relinquished By: [Signature] **Date:** 4-8-24 **Received By:** [Signature] **Date:** 4-8-24

Delivered By: (Circle One) U-S
Sample Condition: Cool Intact
 Yes Yes
 No No
Checked By: [Signature] (Initials)
REMARKS:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca

5. Please fax written changes to 575-393-2476



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

April 26, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/22/24 12:05.

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 style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 42 1FT (H242125-01)

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	04/22/2024	ND	1.99	99.4	2.00	7.06	
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60	
Total BTEX	<0.300	0.300	04/22/2024	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	160	16.0	04/23/2024	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	04/22/2024	ND	196	98.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	199	99.5	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 106 1FT (H242125-02)

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	04/22/2024	ND	1.99	99.4	2.00	7.06		
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27		
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61		
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60		
Total BTEX	<0.300	0.300	04/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/23/2024	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	04/22/2024	ND	196	98.1	200	1.83		
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	199	99.5	200	3.81		
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND						

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 116 1FT (H242125-03)

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	04/22/2024	ND	1.99	99.4	2.00	7.06		
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27		
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61		
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60		
Total BTEX	<0.300	0.300	04/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/23/2024	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	04/22/2024	ND	196	98.1	200	1.83		
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	199	99.5	200	3.81		
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND						

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 132 1FT (H242125-04)

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	04/22/2024	ND	1.99	99.4	2.00	7.06	
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60	
Total BTEX	<0.300	0.300	04/22/2024	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	480	16.0	04/23/2024	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	04/22/2024	ND	196	98.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	199	99.5	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 138 1FT (H242125-05)

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	04/22/2024	ND	1.99	99.4	2.00	7.06	
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60	
Total BTEX	<0.300	0.300	04/22/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/23/2024	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	04/22/2024	ND	196	98.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	199	99.5	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 143 1FT (H242125-06)

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	04/22/2024	ND	1.99	99.4	2.00	7.06	
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	144	16.0	04/23/2024	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	04/23/2024	ND	196	98.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	199	99.5	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 144 1FT (H242125-07)

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	04/22/2024	ND	1.99	99.4	2.00	7.06		
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27		
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61		
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60		
Total BTEX	<0.300	0.300	04/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/23/2024	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	04/23/2024	ND	196	98.1	200	1.83		
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	199	99.5	200	3.81		
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND						

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	04/22/2024	Sampling Date:	04/19/2024
Reported:	04/26/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 146 1FT (H242125-08)

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	04/22/2024	ND	1.99	99.4	2.00	7.06	
Toluene*	<0.050	0.050	04/22/2024	ND	2.01	100	2.00	7.27	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.93	96.7	2.00	7.61	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.90	98.4	6.00	6.60	
Total BTEX	<0.300	0.300	04/22/2024	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	304	16.0	04/23/2024	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	04/23/2024	ND	196	98.1	200	1.83	
DRO >C10-C28*	<10.0	10.0	04/23/2024	ND	199	99.5	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	04/23/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

May 20, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 13:30.

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 style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 103 2FT (H242634-01)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 108 2FT (H242634-02)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 110 2FT (H242634-03)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 111 2FT (H242634-04)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 113 2FT (H242634-05)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 65.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 114 2FT (H242634-06)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 118 2FT (H242634-07)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 119 2FT (H242634-08)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 120 2FT (H242634-09)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 123 2FT (H242634-10)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 124 2FT (H242634-11)

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	05/15/2024	ND	1.97	98.6	2.00	0.0453	
Toluene*	<0.050	0.050	05/15/2024	ND	1.99	99.6	2.00	0.648	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.97	98.3	2.00	1.03	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.17	103	6.00	1.08	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/15/2024	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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 125 2FT (H242634-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-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	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	178	88.8	200	1.36		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 126 2FT (H242634-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-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	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	178	88.8	200	1.36		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 127 2FT (H242634-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82	
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/15/2024	ND	448	112	400	3.64	

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	05/15/2024	ND	178	88.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 128 2FT (H242634-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	178	88.8	200	1.36		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	183	91.3	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 129 2FT (H242634-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82	
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/15/2024	ND	448	112	400	3.64	

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	05/15/2024	ND	181	90.7	200	0.972	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 49.1-148

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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 130 2FT (H242634-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	181	90.7	200	0.972		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 136 2FT (H242634-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-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	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	181	90.7	200	0.972		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.4 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 137 2FT (H242634-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82	
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25	
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10	
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81	
Total BTEX	<0.300	0.300	05/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/15/2024	ND	448	112	400	3.64	

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	05/15/2024	ND	181	90.7	200	0.972	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 140 2FT (H242634-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	181	90.7	200	0.972		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 141 2FT (H242634-21)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500CI-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	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	181	90.7	200	0.972		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/14/2024	Sampling Date:	05/09/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Tamara Oldaker
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 142 2FT (H242634-22)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2024	ND	1.85	92.7	2.00	2.82		
Toluene*	<0.050	0.050	05/15/2024	ND	1.93	96.5	2.00	5.25		
Ethylbenzene*	<0.050	0.050	05/15/2024	ND	1.91	95.7	2.00	1.10		
Total Xylenes*	<0.150	0.150	05/15/2024	ND	6.18	103	6.00	1.81		
Total BTEX	<0.300	0.300	05/15/2024	ND						

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

Chloride, SM4500CI-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	05/15/2024	ND	448	112	400	3.64		

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	05/15/2024	ND	181	90.7	200	0.972		
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	175	87.3	200	0.298		
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND						

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 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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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 Resource Services Project Manager: Michael Moffitt Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2681 Fax #: Project #: 23E-02248 Project Owner: Project Name: Dayton Recycle Release Project Location: Eddy County, NM Sampler Name: F. Rodriguez		P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St. City: Artesia State: NM Zip: 88210 Phone #: Fax #:	
BILL TO		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	MATRIX	SAMPLING
		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME TPH: (8015) EXT BTEX (8021B) Chloride (SM 4500)
1	BS24-103 2#	C 1	5/9/24 11:00
2	BS24-108 2#	C 1	5/9/24 11:05
3	BS24-110 2#	C 1	5/9/24 11:10
4	BS24-111 2#	C 1	5/9/24 11:15
5	BS24-113 2#	C 1	5/9/24 11:20
6	BS24-114 2#	C 1	5/9/24 11:25
7	BS24-118 2#	C 1	5/9/24 11:30
8	BS24-119 2#	C 1	5/9/24 11:35
9	BS24-120 2#	C 1	5/9/24 11:40
10	BS24-123 2#	C 1	5/9/24 11:45
11	BS24-124 2#	C 1	5/9/24 11:50
12	BS24-125 2#	C 1	5/9/24 11:55
13	BS24-126 2#	C 1	5/9/24 12:00

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Relinquished By: *[Signature]* Date: 5/14/24 Received By: *[Signature]* Date: 5/14/24
 Time: 1:30 PM

Delivered By: (Circle One) *#140* Sample Condition: Intact Cool Yes No
 Other: *N.B.C.* Yes No

Checked By: *[Signature]* (Initials) *AV*

REMARKS:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Vertex Resource Services Project Manager: Michael Moffitt Address: 3101 Boyd Dr City: Carlsbad State: NM Zip: 88220 Phone #: 575-988-2681 Fax #: Project #: 23E-02248 Project Owner: Project Name: Dayton Recycle Release Project Location: Eddy County, NM Sampler Name: F. Rodriguez		P.O. #: Company: Silverback Exploration Attn: Mark Ritchie Address: 108 S. 4th St. City: Artesia State: NM Zip: 88210 Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D.: <i>HS24127-21</i> Sample I.D.:		(G)GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING DATE TIME
14 15 16 17 18 19 20 21 22	BS24-127 2Tt BS24-128 2Tt BS24-129 2Tt BS24-130 2Tt BS24-136 2Tt BS24-137 2Tt BS24-140 2Tt BS24-141 2Tt BS24-142 2Tt	C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1	X X X X X X X X X X X X
Date: 5/14/24 Time: 1330 Relinquished By: <i>[Signature]</i> Received By: <i>[Signature]</i>		PHONE RESULT: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: FAX RESULT: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: REMARKS: Direct bill to Silverback Exploration Email results to: mmoffit@vertex.ca	
Delivered By: (Circle One) <i>#1140</i> Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <i>[Signature]</i>		Sample On: <i>4.6e</i> Other:	

5. Please fax written changes to 575-393-2476



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

June 14, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/10/24 10:44.

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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 59 2FT (H243294-01)

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	06/12/2024	ND	2.05	103	2.00	0.422	
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	144	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 61 2FT (H243294-02)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 63 2FT (H243294-03)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 65 2FT (H243294-04)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-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	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 67 2FT (H243294-05)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 69 2FT (H243294-06)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 71 2FT (H243294-07)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/03/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 73 2FT (H243294-08)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-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	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 50 2FT (H243294-09)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 52 2FT (H243294-10)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 54 2FT (H243294-11)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 56 2FT (H243294-12)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 58 2FT (H243294-13)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 60 2FT (H243294-14)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 62 2FT (H243294-15)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/13/2024	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	06/11/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 68 2FT (H243294-16)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/13/2024	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	06/12/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 70 2FT (H243294-17)

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	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/13/2024	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	06/12/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 72 2FT (H243294-18)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	224	16.0	06/12/2024	ND	448	112	400	3.64		

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	06/12/2024	ND	202	101	200	2.47		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	179	89.5	200	5.72		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 74 2FT (H243294-19)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	208	16.0	06/12/2024	ND	448	112	400	3.64		

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	06/11/2024	ND	206	103	200	3.43		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/04/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 147 2FT (H243294-20)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	32.0	16.0	06/12/2024	ND	448	112	400	3.64		

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	06/11/2024	ND	206	103	200	3.43		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 60.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 01 0-1FT (H243294-21)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	256	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 02 1-2FT (H243294-22)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	240	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 03 1-2FT (H243294-23)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	240	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 04 0-1FT (H243294-24)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	256	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 05 1-2FT (H243294-25)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	288	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 06 0-2FT (H243294-26)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	320	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 07 0-2FT (H243294-27)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	320	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 08 1-2FT (H243294-28)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	160	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/11/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 09 1-2FT (H243294-29)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	128	16.0	06/12/2024	ND	448	112	400	3.64		

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	06/12/2024	ND	206	103	200	3.43		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 10 0-1FT (H243294-30)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 11 1-2FT (H243294-31)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 12 1-2FT (H243294-32)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	160	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 13 0-1FT (H243294-33)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	112	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 14 1-2FT (H243294-34)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	06/12/2024	ND	448	112	400	3.64		

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	06/12/2024	ND	206	103	200	3.43		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 111 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 15 0-2FT (H243294-35)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	112	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 16 0-2FT (H243294-36)

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	06/12/2024	ND	1.97	98.5	2.00	5.24	
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	208	16.0	06/12/2024	ND	448	112	400	3.64	

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	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 17 1-2FT (H243294-37)

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	06/12/2024	ND	1.97	98.5	2.00	5.24		
Toluene*	<0.050	0.050	06/12/2024	ND	1.99	99.6	2.00	6.91		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.02	101	2.00	6.87		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.07	101	6.00	6.73		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	06/12/2024	ND	448	112	400	3.64		

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	06/12/2024	ND	206	103	200	3.43		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 18 1-2FT (H243294-38)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	206	103	200	3.43	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	212	106	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 19 0-1FT (H243294-39)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 20 0-1FT (H243294-40)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 21 0-1FT (H243294-41)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 22 0-1FT (H243294-42)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 23 0-1FT (H243294-43)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 24 0-1FT (H243294-44)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	96.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 25 0-1FT (H243294-45)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 26 0-2FT (H243294-46)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 27 1-2FT (H243294-47)

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	06/12/2024	ND	2.12	106	2.00	7.53		
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28		
Total BTEX	<0.300	0.300	06/12/2024	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	208	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 57.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.4 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 28 0-2FT (H243294-48)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 29 0-1FT (H243294-49)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	208	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 30 0-1FT (H243294-50)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 31 1-2FT (H243294-51)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 32 0-2FT (H243294-52)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 149 2FT (H243294-53)

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	06/12/2024	ND	2.12	106	2.00	7.53		
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	180	89.8	200	0.576		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	176	87.9	200	0.0803		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24 - 33 2-4FT (H243294-54)

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	06/12/2024	ND	2.12	106	2.00	7.53	
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	180	89.8	200	0.576	
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	176	87.9	200	0.0803	
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND					

Surrogate: 1-Chlorooctane 70.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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Analytical Results For:

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

Received:	06/10/2024	Sampling Date:	06/06/2024
Reported:	06/14/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Shalyn Rodriguez
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 150 4FT (H243294-55)

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	06/12/2024	ND	2.12	106	2.00	7.53		
Toluene*	<0.050	0.050	06/12/2024	ND	2.16	108	2.00	6.22		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.14	107	2.00	6.49		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.30	105	6.00	5.28		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/12/2024	ND	180	89.8	200	0.576		
DRO >C10-C28*	<10.0	10.0	06/12/2024	ND	176	87.9	200	0.0803		
EXT DRO >C28-C36	<10.0	10.0	06/12/2024	ND						

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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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.
- A-01 DRO CCV failed high. All samples ND.
- 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Vertex Resource Services
 Project Manager: Michael Moffitt
 Address: 3101 Boyd Dr
 City: Carlsbad State: NIM Zip: 88220
 Phone #: 575-988-2681 Fax #:
 Project #: 23E-02248 Project Owner:
 Project Name: Dayton Recycle Release City: Artesia
 Project Location: Eddy County, NM State: NM Zip: 88210
 Phone #:
 Sample Name: F. Rodriguez Fax #:
 P.O. #:
 Company: Silverback Exploration
 Attn: Mark Ritchie
 Address: 108 S. 4th St.
 City: Artesia
 State: NM Zip: 88210
 Phone #:
 Fax #:
 PRESERV. SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1	BS24-59 2ft	C	1	X							6/3/24	10:00	X	X	X
2	BS24-61 2ft	C	1	X							6/3/24	10:05	X	X	X
3	BS24-63 2ft	C	1	X							6/3/24	10:10	X	X	X
4	BS24-65 2ft	C	1	X							6/3/24	10:15	X	X	X
5	BS24-67 2ft	C	1	X							6/3/24	10:20	X	X	X
6	BS24-69 2ft	C	1	X							6/3/24	10:25	X	X	X
7	BS24-71 2ft	C	1	X							6/3/24	10:30	X	X	X
8	BS24-73 2ft	C	1	X							6/3/24	10:35	X	X	X

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Relinquished By: *[Signature]* Date: *6/3/24* Received By: *[Signature]* Time: *10:44*
 Relinquished By: *[Signature]* Date: *6/3/24* Received By: *[Signature]* Time: *10:44*

Delivered By: (Circle One) *8.1c*
 Sampler - UPS - Bus - Other: *#1110*
 FORM-006 R 2.0

Sample Condition: Cool Intact
 Yes No No

CHECKED BY: *[Signature]*

REMARKS: *[Blank]*

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca & fRodriguez@vertex.ca

5. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services		BILL TO		P.O. #:	
Project Manager: Michael Moffitt		Company: Silverback Exploration		Attn: Mark Ritchie	
Address: 3101 Boyd Dr		State: NM Zip: 88220		Address: 108 S. 4th St.	
City: Carlsbad		State: NM Zip: 88220		City: Artesia	
Phone #: 575-988-2681		Fax #: 575-988-2681		State: NM Zip: 88210	
Project #: 23E-02248		Project Owner:		Phone #:	
Project Name: Dayton Recycle Release		Project Location: Eddy County, NM		Fax #:	
Sampler Name: F. Rodriguez		FOR LAB USE ONLY		PRESERV.	
				SAMPLING	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
9	BS24-50 2ft	C	1	X							6/4/24	10:00	X	X	X
10	BS24-52 2ft	C	1	X							6/4/24	10:05	X	X	X
11	BS24-54 2ft	C	1	X							6/4/24	10:10	X	X	X
12	BS24-56 2ft	C	1	X							6/4/24	10:15	X	X	X
13	BS24-58 2ft	C	1	X							6/4/24	10:20	X	X	X
14	BS24-60 2ft	C	1	X							6/4/24	10:25	X	X	X
15	BS24-62 2ft	C	1	X							6/4/24	10:30	X	X	X
16	BS24-68 2ft	C	1	X							6/4/24	10:35	X	X	X
17	BS24-70 2ft	C	1	X							6/4/24	10:40	X	X	X
18	BS24-72 2ft	C	1	X							6/4/24	10:45	X	X	X
19	BS24-74 2ft	C	1	X							6/4/24	10:50	X	X	X
20	BS24-147 2ft	C	1	X							6/4/24	10:55	X	X	X

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Relinquished By: *[Signature]* Date: 10/24/24 Time: 10:44

Received By: *[Signature]* Date: 10/24/24 Time: 10:44

Delivered By: (Circle One) *-8.12*

Sampler - UPS - Bus - Other: *#140*

FORM-006 R 2.0

Sample Condition: Cool Intact

Checked By: *[Signature]*

REMARKS: Direct bill to Silverback Exploration
Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca

5. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services		P.O. #:		BILL TO		ANALYSIS REQUEST					
Project Manager: Michael Moffitt		Company: Silverback Exploration		Address: 108 S. 4th St.							
Address: 3101 Boyd Dr		Attn: Mark Ritchie		City: Artesia							
City: Carlsbad		Address: 108 S. 4th St.		State: NM							
Phone #: 575-988-2681		City: Artesia		Zip: 88210							
Fax #: 575-988-2681		State: NM		Phone #:							
Project #: 23E-02248		Project Owner:		Fax #:							
Project Name: Dayton Recycle Release		Project Location: Eddy County, NM		Date:							
Sampler Name: F. Rodriguez		Matrix:		PRESERV:							
FOR LAB USE ONLY		G(R)AB OR (C)OMP.		DATE							
Lab I.D.		Sample I.D.		TIME							
H243294		WS24-01 0-1ft		9:00		TPH: (8015) EXT					
21		WS24-02 1-2ft		9:05		BTEX (8021B)					
22		WS24-03 1-2ft		9:10		Chloride (SM 4500)					
23		WS24-04 0-1ft		9:15							
24		WS24-05 1-2ft		9:20							
25		WS24-06 0-2ft		9:25							
26		WS24-07 0-2ft		9:30							
27		WS24-08 1-2ft		9:35							
28		WS24-09 1-2ft		9:40							
29		WS24-10 0-1ft		9:45							
30		WS24-11 1-2ft		9:50							
31		WS24-12 1-2ft		9:55							
32		WS24-13 0-1ft		10:00							
33											

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Relinquished By: *[Signature]* Date: 10-10-24 Time: 10:44
 Received By: *[Signature]* Date: 10-10-24 Time: 10:44

Delivered By: (Circle One) *-8.1-* Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: *#140* Yes No No
 FORM-006 R 2.0

Checked By: *[Signature]* (Initials) *SR*

REMARKS: Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca

3. Please fax written changes to 575-393-2476



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: Michael Moffitt		Company: Silverback Exploration		Address: 3101 Boyd Dr		Attn: Mark Ritchie									
City: Carlsbad		State: NM Zip: 88220		Address: 108 S. 4th St.		City: Artesia									
Phone #: 575-988-2691		Fax #: Project Owner:		State: NM Zip: 88210		Phone #:									
Project #: 23E-02248		Project Name: Dayton Recycle Release		Project Location: Eddy County, NM		Sample Name: F. Rodriguez									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		Matrix		PRESERV		SAMPLING					
		WS24-14 1-2ft		C 1		X		6/6/24		10:05		X		X	
		WS24-15 0-2ft		C 1		X		6/6/24		10:10		X		X	
		WS24-16 0-2ft		C 1		X		6/6/24		10:15		X		X	
		WS24-17 1-2ft		C 1		X		6/6/24		10:20		X		X	
		WS24-18 1-2ft		C 1		X		6/6/24		10:25		X		X	
		WS24-19 0-1ft		C 1		X		6/6/24		10:30		X		X	
		WS24-20 0-1ft		C 1		X		6/6/24		10:35		X		X	
		WS24-21 0-1ft		C 1		X		6/6/24		10:40		X		X	
		WS24-22 0-1ft		C 1		X		6/6/24		10:45		X		X	
		WS24-23 0-1ft		C 1		X		6/6/24		10:50		X		X	
		WS24-24 0-1ft		C 1		X		6/6/24		10:55		X		X	
		WS24-25 0-1ft		C 1		X		6/6/24		11:00		X		X	
		WS24-26 0-2ft		C 1		X		6/6/24		11:05		X		X	

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Relinquished By: *[Signature]* Date: 6-10-24 Time: 10:14
 Received By: *[Signature]* Date: 6-10-24 Time: 10:14

Delivered By: (Circle One) UPS Bus Other: *8.1 = #140*

Sample Condition: Cool Intact Yes No No *SR*

5. Please fax written changes to 575-393-2476



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Vertex Resource Services	P.O. #:
Project Manager: Michael Moffitt	Company: Silverback Exploration
Address: 3101 Boyd Dr	Attn: Mark Ritchie
City: Carlsbad	Address: 108 S. 4th St.
Phone #: 575-988-2681	City: Artesia
Fax #:	State: NM Zip: 88210
Project #: 23E-02248	Project Owner:
Project Name: Dayton Recycle Release	Phone #:
Project Location: Eddy County, NM	Fax #:
Sampler Name: F. Rodriguez	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
47	WS24-27 1-2ft	C	1	X						6/6/24	11:10	X	X	X
48	WS24-28 0-2ft	C	1	X						6/6/24	11:15	X	X	X
49	WS24-29 0-1ft	C	1	X						6/6/24	11:20	X	X	X
50	WS24-30 0-1ft	C	1	X						6/6/24	11:25	X	X	X
51	WS24-31 1-2ft	C	1	X						6/6/24	11:30	X	X	X
52	WS24-32 0-2ft	C	1	X						6/6/24	11:35	X	X	X
53	BS24-149 2ft	C	1	X						6/6/24	11:40	X	X	X
54	WS24-33 2-4ft	C	1	X						6/6/24	11:45	X	X	X
55	BS24-150 4ft	C	1	X						6/6/24	11:50	X	X	X

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Reinquished By: [Signature]	Date: 6-10-24	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Reinquished By: [Signature]	Time: 10:45	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <u>8.1</u>	Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: [Signature]	REMARKS:	
Sampler: <u>HRM-06 TR-Bugs</u> - Other: <u>#140</u>	Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: [Signature]	Direct bill to Silverback Exploration Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca	

5. Please fax written changes to 575-393-2476



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

June 25, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 12:28.

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 written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 151 4.1FT (H243599-01)

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	06/22/2024	ND	2.03	101	2.00	2.89	
Toluene*	<0.050	0.050	06/22/2024	ND	2.17	108	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.65	111	6.00	1.09	
Total BTEX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	160	16.0	06/21/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	177	88.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	205	102	200	0.759	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 152 4.1FT (H243599-02)

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	06/22/2024	ND	2.03	101	2.00	2.89	
Toluene*	<0.050	0.050	06/22/2024	ND	2.17	108	2.00	2.30	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	2.48	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.65	111	6.00	1.09	
Total BTEX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/21/2024	ND	400	100	400	7.69	

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	06/20/2024	ND	177	88.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	205	102	200	0.759	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 153 4.1FT (H243599-03)

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	06/22/2024	ND	2.03	101	2.00	2.89		
Toluene*	<0.050	0.050	06/22/2024	ND	2.17	108	2.00	2.30		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	2.48		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.65	111	6.00	1.09		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500CI-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	06/21/2024	ND	400	100	400	7.69		

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	06/20/2024	ND	177	88.6	200	3.81		
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	205	102	200	0.759		
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND						

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 154 4.1FT (H243599-04)

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	06/22/2024	ND	2.02	101	2.00	4.16	
Toluene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	4.50	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.60	110	6.00	3.83	
Total BTEX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	06/21/2024	ND	400	100	400	7.69	

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	06/20/2024	ND	177	88.6	200	3.81	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	205	102	200	0.759	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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*=Accredited Analyte

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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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BS24 - 155 4.1FT (H243599-05)

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	06/22/2024	ND	2.02	101	2.00	4.16		
Toluene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	4.26		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	4.50		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.60	110	6.00	3.83		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/21/2024	ND	400	100	400	7.69		

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	06/20/2024	ND	177	88.6	200	3.81		
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	205	102	200	0.759		
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND						

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

June 24, 2024

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

RE: DAYTON RECYCLE RELEASE

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/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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/18/2024	Sampling Date:	06/13/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24-34 1-4' (H243577-01)

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	06/21/2024	ND	1.98	98.9	2.00	0.0423	
Toluene*	<0.050	0.050	06/21/2024	ND	1.97	98.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.12	106	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.28	105	6.00	1.95	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	06/20/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	188	93.8	200	4.85	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	06/18/2024	Sampling Date:	06/13/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24-35 1-4' (H243577-02)

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	06/21/2024	ND	1.98	98.9	2.00	0.0423	
Toluene*	<0.050	0.050	06/21/2024	ND	1.97	98.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.12	106	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.28	105	6.00	1.95	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/20/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	188	93.8	200	4.85	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/13/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24-36 0-4' (H243577-03)

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	06/21/2024	ND	1.98	98.9	2.00	0.0423	
Toluene*	<0.050	0.050	06/21/2024	ND	1.97	98.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.12	106	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.28	105	6.00	1.95	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-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	06/20/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	188	93.8	200	4.85	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/13/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24-37 1-4' (H243577-04)

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	06/21/2024	ND	1.98	98.9	2.00	0.0423	
Toluene*	<0.050	0.050	06/21/2024	ND	1.97	98.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.12	106	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.28	105	6.00	1.95	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	06/20/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	188	93.8	200	4.85	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/18/2024	Sampling Date:	06/13/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: WS24-38 1-4' (H243577-05)

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	06/21/2024	ND	1.98	98.9	2.00	0.0423	
Toluene*	<0.050	0.050	06/21/2024	ND	1.97	98.5	2.00	1.62	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.12	106	2.00	1.55	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.28	105	6.00	1.95	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/20/2024	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	188	93.8	200	4.85	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	195	97.6	200	2.54	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services	Project Manager: Michael Moffitt	Address: 3101 Boyd Dr	City: Carlsbad	Phone #: 575-988-2681	Project #: 23E-02248	Project Name: Dayton Recycle Release	Project Location: Eddy County, NM	Sampler Name: F. Rodriguez
P.O. #:	Company: Silverback Exploration	State: NM	Attn: Mark Ritchie	Address: 108 S. 4th St.	City: Artesia	State: NM	Phone #:	Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
123577	WS24-34 1-4ft	C	1	X							6/13/24	9:00	X	X	X
	WS24-35 1-4ft	C	1	X							6/13/24	9:05	X	X	X
	WS24-36 0-4ft	C	1	X							6/13/24	9:10	X	X	X
	WS24-37 1-4ft	C	1	X							6/13/24	9:15	X	X	X
	WS24-38 1-4ft	C	1	X							6/13/24	9:20	X	X	X

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Relinquished By: [Signature] **Date:** 6/18/24

Received By: [Signature] **Date:** 6/18/24

Delivered By: (Circle One) S-U.C

Sample Condition: Cool Intact

Checked By: [Signature]

Remarks:

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

Fax Result: Yes No **Add'l Fax #:**

Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca



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

July 08, 2024

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

RE: DAYTON RECYCLE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/01/24 13:00.

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 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	07/01/2024	Sampling Date:	06/28/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BACKFILL - 01 0FT (H243926-01)

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	07/04/2024	ND	1.91	95.5	2.00	0.998		
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	GC-NC	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58	GC-NC	
Total BTEX	<0.300	0.300	07/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	64.0	16.0	07/05/2024	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	07/04/2024	ND	217	109	200	0.908		
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195		
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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
 MICHAEL MOFFITT
 420 SOUTH MAIN, SUITE 202
 TULSA OK, 74103
 Fax To: NA

Received:	07/01/2024	Sampling Date:	06/28/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BACKFILL - 02 OFT (H243926-02)

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	07/04/2024	ND	1.91	95.5	2.00	0.998		
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63	GC-NC	
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58		
Total BTEX	<0.300	0.300	07/04/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	07/05/2024	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	07/04/2024	ND	217	109	200	0.908		
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195		
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND						

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/01/2024	Sampling Date:	06/28/2024
Reported:	07/08/2024	Sampling Type:	Soil
Project Name:	DAYTON RECYCLE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	23E - 02248	Sample Received By:	Alyssa Parras
Project Location:	SILVERBACK EXP. - EDDY CO NM		

Sample ID: BACKFILL - 03 OFT (H243926-03)

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	07/04/2024	ND	1.91	95.5	2.00	0.998		
Toluene*	<0.050	0.050	07/04/2024	ND	1.90	95.2	2.00	1.52		
Ethylbenzene*	<0.050	0.050	07/04/2024	ND	2.01	100	2.00	1.63		
Total Xylenes*	<0.150	0.150	07/04/2024	ND	5.92	98.7	6.00	1.58		
Total BTEX	<0.300	0.300	07/04/2024	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	64.0	16.0	07/05/2024	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	07/04/2024	ND	217	109	200	0.908		
DRO >C10-C28*	<10.0	10.0	07/04/2024	ND	215	108	200	0.0195		
EXT DRO >C28-C36	<10.0	10.0	07/04/2024	ND						

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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*=Accredited Analyte

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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-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Vertex Resource Services
 Project Manager: Michael McFitt
 Address: 3101 Boyd Dr
 City: Carlsbad State: NM Zip: 88220
 Phone #: 575-988-2681 Fax #:
 Project #: 23E-02248 Project Owner:
 Project Name: Dayton Recycle Release
 Project Location: Eddy County, NM
 Sampler Name: F. Rodriguez
 P.O. #:
 Company: Silverback Exploration
 Attn: Mark Ritchie
 Address: 108 S. 4th St.
 City: Artesia
 State: NM Zip: 88210
 Phone #:
 Fax #:
 PRESERV: SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: (8015) EXT	BTEX (8021B)	Chloride (SM 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1243924	7124	C 1	1	X						6/28/24	9:00	X	X	X	
1712924		C 1	1	X						6/28/24	9:05	X	X	X	
		C 1	1	X						6/28/24	9:10	X	X	X	

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Relinquished By: [Signature] Date: 7-1-24
 Received By: [Signature] Date: 7-1-24
 Relinquished By: [Signature] Date: 7-1-24
 Received By: [Signature] Date: 7-1-24

Delivered By: (Circle One) - 0-22
 Sample Condition: Yes No
 Cool Intact: Yes No
 CHECKED BY: [Signature]

REMARKS:
 Direct bill to Silverback Exploration
 Email results to: mmoffitt@vertex.ca & frodriguez@vertex.ca

3. Please fax written changes to 575-393-2476

APPENDIX F – Remediation Work Plan and Deferral Request Approval

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	241788	Districts:	Artesia
Operator:	[330968] Silverback Operating II, LLC	Counties:	Eddy
Description:	Silverback Operating II, LLC [330968] , DAYTON WATER RECYCLE , nAPP2307356662		
Status:	REJECTED		
Status Date:	01/04/2024		
References (1):	nAPP2307356662		

Forms

Attachments: [C-141, Field Data, Closure Criteria](#)

Questions

This submission type does not have questions, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

rhamlet (1/4/2024). The Deferral Request is Denied. Before we can approve a deferral, the spill must be fully delineated. Contamination must not pose an imminent risk to human health, the environment, or groundwater. Please remove as much of the contaminated soil with alternative methods. The only remediation that should remain are the sample points that are being requested for deferral (inside facility fence/boundary). Only sample points that could cause a major facility deconstruction will be deferred. Specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed. The variance request for 400 ft2 confirmation floor samples is approved. Collect confirmation sidewall samples representing no more than 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. All sidewall samples should be taken from the sidewall of the excavation. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule.

[Go Back](#)

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	263358	Districts:	Artesia
Operator:	[330968] Silverback Operating II, LLC	Counties:	Eddy
Description:	Silverback Operating II, LLC [330968] , DAYTON WATER RECYCLE , nAPP2307356662		
Status:	APPROVED		
Status Date:	03/18/2024		
References (1):	nAPP2307356662		

Forms

Attachments:	C-141, Scaled Site Map, Closure Criteria
--------------	--

Questions

This submission type does not have questions, at this time.

Comments

No comments found for this submission.

Conditions

Summary:

amaxwell (3/18/2024), Work plan approved.

amaxwell (3/18/2024), A remediation report containing reclamation activities will need to include the following:

amaxwell (3/18/2024), •The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.

amaxwell (3/18/2024), All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeded activities, inspections, and final pictures when revegetation is achieved.

amaxwell (3/18/2024), OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.

amaxwell (3/18/2024), Submit a report via the OCD permitting portal by July 19, 2024.

Reasons

No reasons found for this submission.

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 392210

QUESTIONS

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307356662
Incident Name	NAPP2307356662 DAYTON WATER RECYCLE @ 0
Incident Type	Release Other
Incident Status	Deferral Request Approved

Location of Release Source

Please answer all the questions in this group.

Site Name	DAYTON WATER RECYCLE
Date Release Discovered	02/21/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Release 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 Unknown Other (Specify) Released: 2,312 BBL Recovered: 0 BBL Lost: 2,312 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)	Source: other- layflat line

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QUESTIONS, Page 2

Action 392210

QUESTIONS (continued)

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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.
<i>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.</i>	

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	The released recycled water spread thin and dried leaving no liquids to be contained and resulted in no tangible danger to human health and the environment once dry.

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: Justin Carter Title: Landman Email: jcarter@novooog.com Date: 10/09/2024
--	---

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QUESTIONS (continued)

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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)	Between 51 and 75 (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 1 and 5 (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 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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)	34000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3800
GRO+DRO (EPA SW-846 Method 8015M)	1600
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	06/21/2023
On what date will (or did) the final sampling or liner inspection occur	07/17/2024
On what date will (or was) the remediation complete(d)	06/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	29609
What is the estimated volume (in cubic yards) that will be reclaimed	1097
What is the estimated surface area (in square feet) that will be remediated	62464
What is the estimated volume (in cubic yards) that will be remediated	2853

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 392210

QUESTIONS (continued)

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID:	330968
	Action Number:	392210
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(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: Justin Carter Title: Landman Email: jcarter@novooog.com Date: 10/14/2024
--	---

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 392210

QUESTIONS (continued)

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Deferral area is located on the ramp of the facility's pond, excavation in this area would cause problems with the structural integrity of the pond.

What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	7234
--	------

What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	536
--	-----

Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.

Enter the facility ID (##) on which this deferral should be granted	DAYTON RECYCLING FACILITY AND CONTAINMENTS #1, #2, [fV2427449353]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True

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: Justin Carter Title: Landman Email: jcarter@novoog.com Date: 10/09/2024
--	--

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QUESTIONS, Page 6

Action 392210

QUESTIONS (continued)

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	363919
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/18/2024
What was the (estimated) number of samples that were to be gathered	62
What was the sampling surface area in square feet	24800

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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District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 392210

CONDITIONS

Operator: Silverback Operating II, LLC 1001 W. Wilshire Blvd Oklahoma City, OK 73112	OGRID: 330968
	Action Number: 392210
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Deferral approved. Deferral is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	10/16/2024