

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: Hawk 35 Fed CTB

Date of Spill: 8/20/2024

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,
flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0000 BBL WATER: 0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations					Standing Liquid Calculations				
Total Surface Area	width	length	wet soil depth	oil (%)	Standing Liquid Area	width	length	liquid depth	oil (%)
Rectangle Area #1	10 ft X	200 ft X	0.50 in	0%	Rectangle Area #1	10 ft X	45 ft X	1 in	0%
Rectangle Area #2	45 ft X	45 ft X	0.50 in	0%	Rectangle Area #2	30 ft X	30 ft X	1 in	0%
Rectangle Area #3	110 ft X	45 ft X	0.50 in	0%	Rectangle Area #3	0 ft X	0 ft X	0 in	0%
Rectangle Area #4	0 ft X	0 ft X	0.00 in	0%	Rectangle Area #4	0 ft X	0 ft X	0 in	0%
Rectangle Area #5	0 ft X	0 ft X	0.00 in	0%	Rectangle Area #5	0 ft X	0 ft X	0 in	0%
Rectangle Area #6	0 ft X	0 ft X	0.00 in	0%	Rectangle Area #6	0 ft X	0 ft X	0 in	0%
Rectangle Area #7	0 ft X	0 ft X	0.00 in	0%	Rectangle Area #7	0 ft X	0 ft X	0 in	0%
Rectangle Area #8	0 ft X	0 ft X	0.00 in	0%	Rectangle Area #8	0 ft X	0 ft X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil BBL Water 0 BBL

Did leak occur before the separator?: ☐ YES ☒ N/A (place an "X")

Amount of Free Liquid Recovered: 20 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.08 gal per gal

Use the following when the spill wets the grains of the soil:

* sand = .08 gallon liquid per gallon volume of soil.

* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.

* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.

* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.

* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:

Total Solid/Liquid Volume: 8,975 sq. ft. H2O 374 cu. ft. OIL cu. ft.

Estimated Volumes Spilled

Liquid in Soil: 5.3 BBL 0.0 BBL
Free Liquid: 20.0 BBL 0.0 BBL
Totals: 25.364 BBL 0.000 BBL

Total Liquid Spill Liquid: 25.364 BBL 0.000 BBL

Recovered Volumes

Estimated oil recovered: 0.0 BBL check - okay
Estimated water recovered: 20.0 BBL check - okay

Free Liquid Volume Calculations:

Total Free Liquid Volume: 1,350 sq. ft. H2O 112.500 cu. ft. OIL .000 cu. ft.

Estimated Production Volumes Lost

Estimated Production Spilled: 0.000000 BBL 0.000000 BBL

Estimated Surface Damage

Surface Area: 8,975 sq. ft.

Surface Area: .2060 acre

Estimated Weights, and Volumes

Saturated Soil = 41,883 lbs 374 cu. ft. 14 cu. yds.
Total Liquid = 25 BBL 1,065.28 gallon 8,863 lbs

Environmental Remediation Plan

General Information

NMOCD District:	District 1 – Hobbs	Incident ID:	NAPP2526948722
Landowner:	Federal	RP Reference:	N/A
Client:	EOG Resources, Inc.	Site Location:	Hawk 35 Fed CTB
Date:	August 25, 2025	Project #:	24E-03931
Client Contact:	Chase Settle	Phone #:	575.703.6537
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

Objective

The objective of the Environmental Remediation Plan is to identify exceedances found during the site characterization activities and propose an appropriate technique to address the open release at Hawk 35 Fed CTB. On August 20, 2024, EOG Resources, Inc. (EOG) had an incident with failure of a poly pipeline which caused a release of produced water. Site investigation calculated the release volume to be 25 bbls of produced water with 20 bbls recovered. Areas of environmental concern identified and delineated include in and around the separators, equipment in the northwest corner, and central portions of the pad. An aerial photograph of the site with characterization locations and approximate area of release impact is presented on Figure 1 (Attachment 1). Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29. The closure criteria for the site are presented below (Table 1).

Table 1. Closure Criteria for Soils to Remediation & Reclamation Standards		
	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

Site Assessment/Characterization

Site characterization started on August 29, 2024, and was completed on November 19, 2024. A total of 41 sample points were established and samples were collected for field screening. Samples were obtained at various depths for horizontal and vertical delineation. Vertical delineation to New Mexico Oil Conservation Division (NMOCD) standards was obtained for areas where depth to groundwater is between 51 and 100 feet below ground surface (bgs). Vertical delineation for sample points BH24-07 and BH24-37 was not obtained through laboratory analysis at 2 feet bgs. It was determined that vertical delineation for these areas would be more necessary to be obtained during remedial activities at 2.5 feet bgs. The release did meet the 10,000 mg/L requirement; however, the depth to groundwater is greater than 55 feet bgs and the release resulted in a total of 5 bbl. of unrecovered produced water, which is less than 200 bbl. Therefore, delineation for NMOCD's 51-100 standards was obtained at 4 feet bgs and the most stringent standards were not required at that depth. In total, 85 samples were submitted to an approved laboratory for analysis. The sample locations are presented on Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above noted closure criteria and the results from the

Environmental Remediation Plan

characterization activity are presented in Table 2 (Attachment 2). If present, exceedances to criteria are identified in the table in bold font with a grey/green. Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5.

Proposed Remedial Activities

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Exceedances will be excavated to reclamation standards within the top 4 feet, meeting NMOCD's most stringent standards. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Field screening will be utilized to confirm removal of contaminated soil until the excavation is below the applicable closure criteria. Confirmatory samples will be collected during excavation activities and will be submitted to an approved laboratory to confirm closure criteria guidelines are met. The excavation will be backfilled with clean soil sourced locally and immediately reclaimed to the requirements set forth in 19.15.29.13 NMAC.

The sample locations and proposed excavations are presented in Figures 1 and 2, respectively (Attachment 1). Mechanical equipment will be used to excavate open areas on the pad to remove contaminated soil. A hydrovac truck will be utilized to identify underground utilities and pipelines where necessary, and hand tools will be utilized to remove contaminated soil in close proximity to all underground equipment. Confirmation samples will be collected as per NMOCD guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is 600 cubic yards. Excavation is planned to be completed within 90 days of approval of this remediation plan.

Remedial efforts will begin between the separators/equipment that are located within the middle of the release area. It will be attempted to remove the exceedances to NMOCD's most stringent standards at a depth of 0.5 to 1 feet bgs. If remediation to the most stringent standards cannot be obtained at 1 foot bgs, then this area will be closed to NMOCD's 51-100 closure criteria where chloride impacts will not exceed 10,000 mg/kg and TPH impacts will not exceed 2,500 mg/kg. This area is depicted in Figure 3.

Sample Point	Excavation Depth	Remediation Method
BH24-01	0.5'	Machinery
BH24-02	3'	Hydrovac/Hand Crew
BH24-03	3'	Hydrovac/Hand Crew
BH24-05	0.5'	Hydrovac/Hand Crew
BH24-06	2.5'	Machinery/Hand Crew
BH24-07	2.5'	Machinery
BH24-08	0.5'	Hydrovac/Hand Crew
BH24-10	1.5'	Handcrew or Hydrovac
BH24-13	2'	Machinery
BH24-16	3'	Machinery
BH24-18	2'	Hydrovac/Hand Crew
BH24-22	2'	Machinery
BH24-25	0.5'	Machinery
BH24-30	4'	Machinery
BH24-37	2.5'	Machinery
BH24-38	3'	Hydrovac/Hand Crew



Environmental Remediation Plan

Variance Request

Vertex Resource Services, Inc. (Vertex) and EOG would like to request a variance for confirmation sampling due to depth to groundwater (DTGW) being between 51 and 100 feet bgs for closure criteria. Closure research pertaining to the DTGW determination is included in Attachment 4. The variance request will consist of five-point composite samples for every 400 square feet for the base of the proposed excavation. The walls of the excavation will utilize five-point composite samples that representative of no more than 200 square feet. Additional discrete samples will be collected from areas with discoloration and analyzed for chloride, BTEX, and TPH.

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

A handwritten signature in black ink, appearing to read 'CDixon', is positioned above a horizontal line.

9/26/2025

Chance Dixon, B.Sc.

Date

PROJECT MANAGER, REPORT REVIEW

Attachments

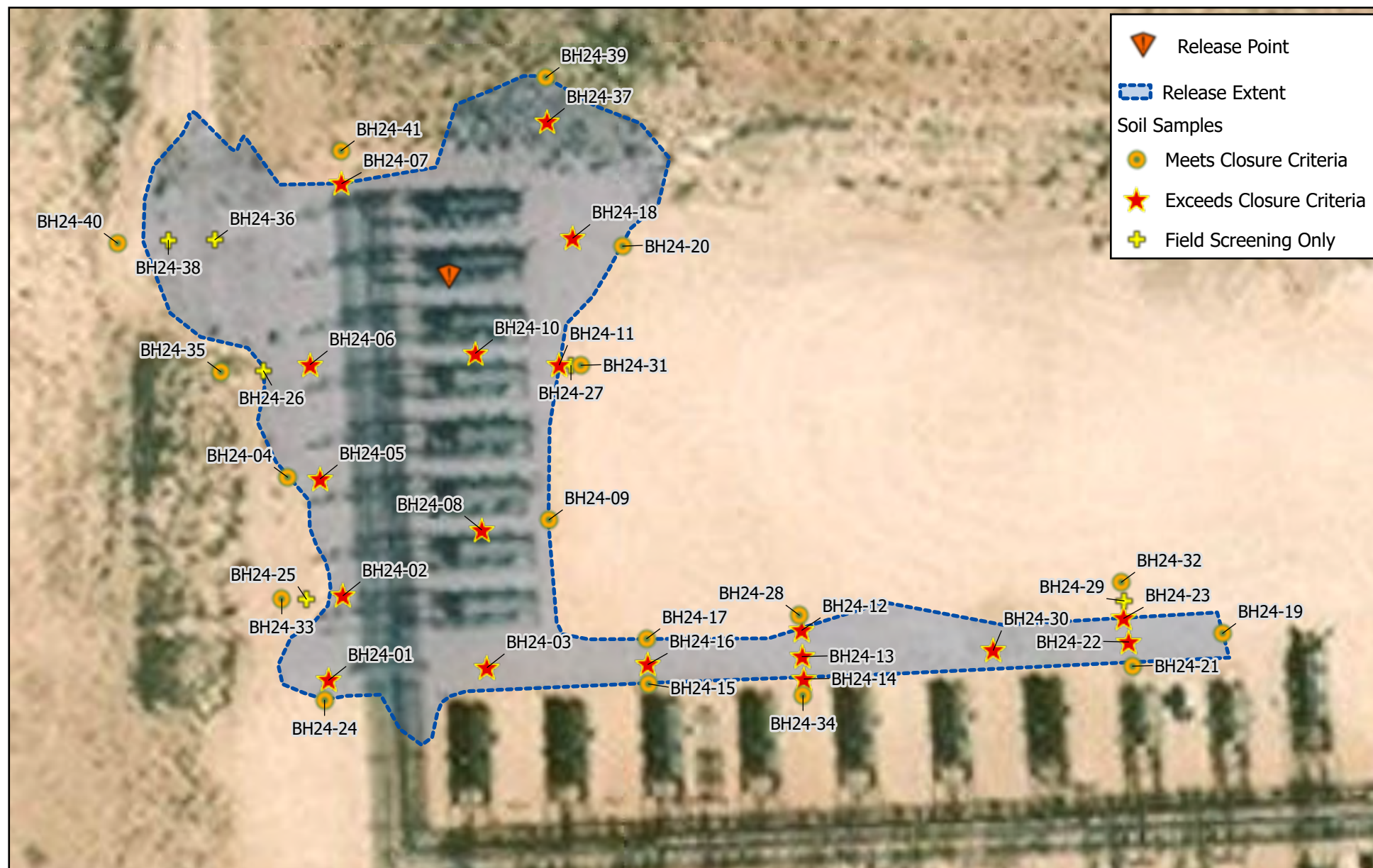
Attachment 1. Figures

Attachment 2. Tables

Attachment 3. Laboratory Data Reports with Chain of Custody Forms

Attachment 4. Closure Criteria Research

Attachment 1



0 15 30 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.180589°N, 103.537151°W

Date: Dec 03/24



Soil Sample Locations Hawk 35 Fed CTB

FIGURE:

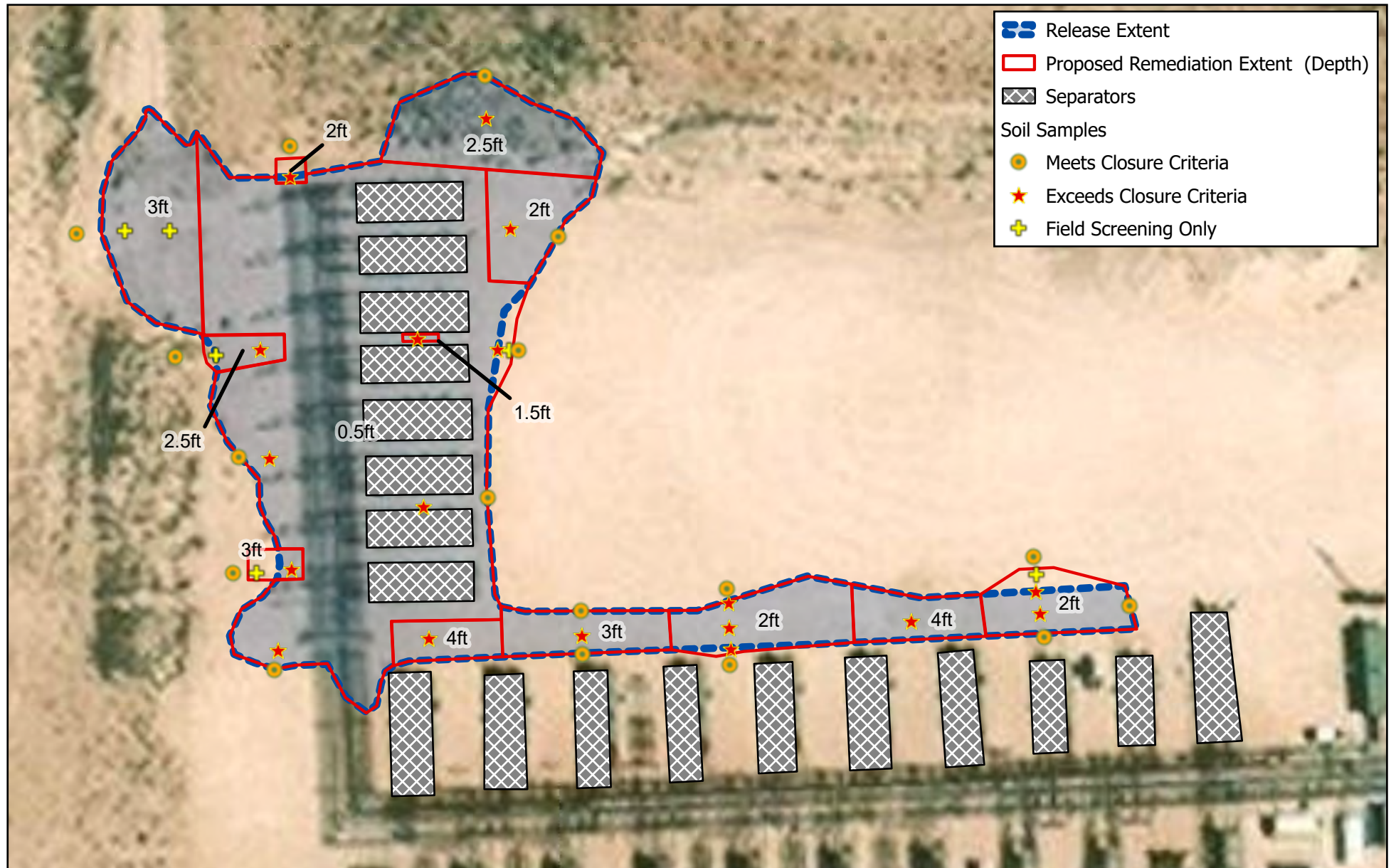
1



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

Note: Georeferenced image from Esri, 2024. Site features from GPS, Vertex, 2024.

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0 15 30 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.180578°N, 103.537098°W

Date: Dec 03/24



Proposed Remediation Extent with Depths Hawk 35 Fed CTB

FIGURE:

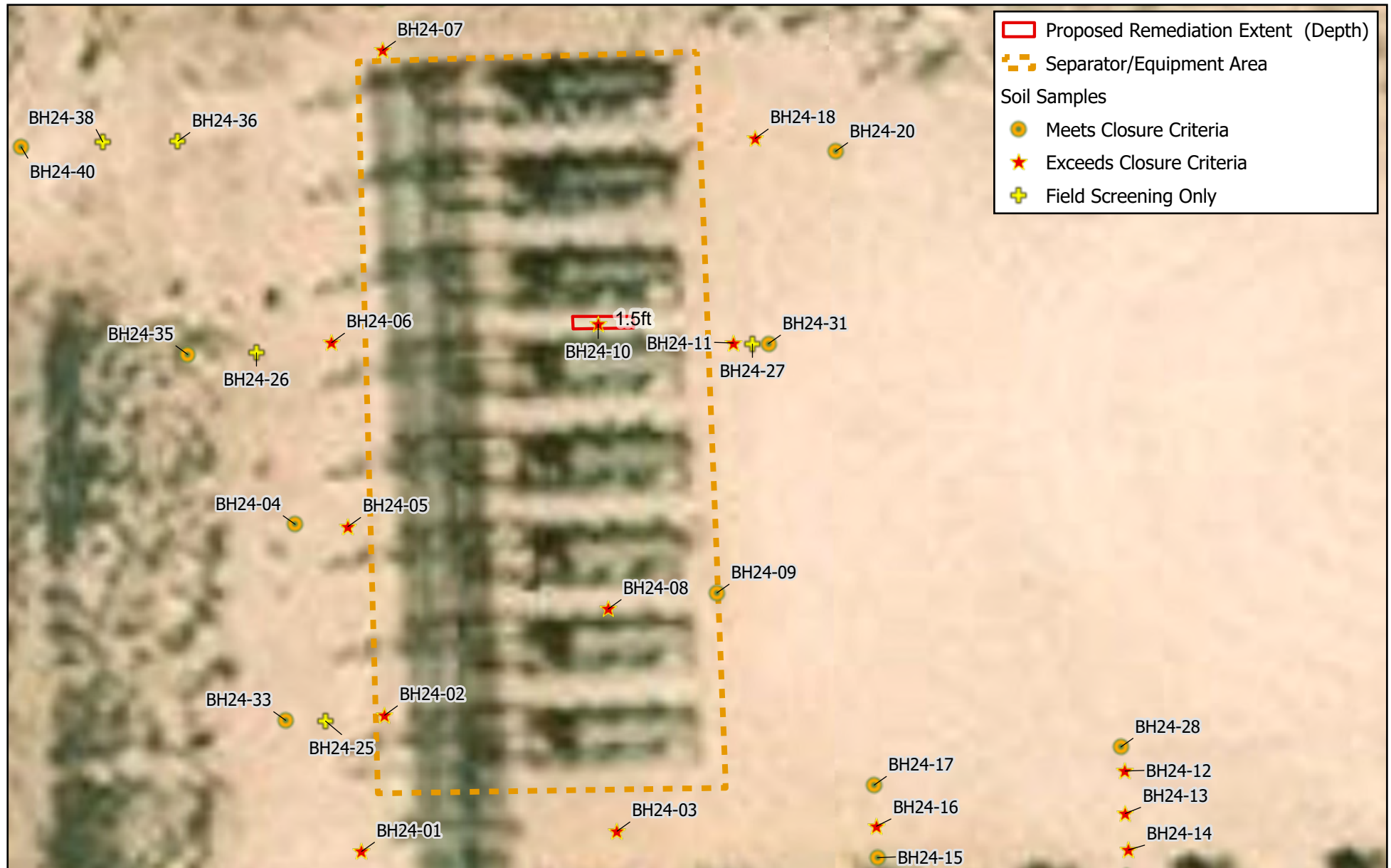
2



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Note: Georeferenced image from Esri, 2024. Site features from GPS, Vertex, 2024.

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0 10 20 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:
Lat/Long: 32.1806°N, 103.537269°W

Date: Dec 10/24



Separator/Equipment Area Schematic Hawk 35 Fed CTB

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, 2024. Site features from GPS, Vertex, 2024.

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Attachment 2

Client Name: EOG Resources, Inc.
 Site Name: Hawk 35 Fed CTB
 NMOCD Incident ID: nAPP2526948722
 Project #: 24E-03931
 Lab Reports: 885-11067-1, 885-11326-1,

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	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)	
BH24-01	0	August 29, 2024	-	-	7,773	ND	ND	ND	12	ND	12	12	6,600
BH24-01	2	August 29, 2024	-	46	383	ND	ND	ND	ND	ND	ND	ND	96
BH24-02	0	August 29, 2024	-	-	6,755	ND	ND	ND	16	ND	16	16	6,000
BH24-02	2	August 29, 2024	-	-	1,945	ND	ND	ND	ND	ND	ND	ND	1,600
BH24-02	3	September 18, 2024	-	-	210	ND	ND	ND	ND	ND	ND	ND	60
BH24-03	0	August 29, 2024	-	-	7,013	ND	ND	ND	ND	ND	ND	ND	6,800
BH24-03	2	August 29, 2024	-	-	4,343	ND	ND	ND	ND	ND	ND	ND	3,600
BH24-03	3	September 17, 2024	-	-	13,807	ND	ND	ND	ND	ND	ND	ND	6,600
BH24-03	6.5	September 17, 2024	-	-	2,000	ND	ND	ND	ND	ND	ND	ND	1,400
BH24-04	0	August 29, 2024	-	38	186	ND	ND	ND	ND	ND	ND	ND	ND
BH24-04	2	August 29, 2024	-	41	92	ND	ND	ND	ND	ND	ND	ND	ND
BH24-05	0	August 29, 2024	-	-	5,118	ND	ND	ND	ND	ND	ND	ND	4,000
BH24-05	2	August 29, 2024	-	51	561	ND	ND	ND	ND	ND	ND	ND	450
BH24-06	0	August 29, 2024	-	-	2,970	ND	ND	ND	ND	ND	ND	ND	2,200
BH24-06	2	August 29, 2024	-	-	3,590	ND	ND	ND	ND	ND	ND	ND	2,900
BH24-06	2.5	September 18, 2024	-	-	625	ND	ND	ND	ND	ND	ND	ND	240
BH24-07	0	August 29, 2024	-	35	140	ND	ND	ND	ND	ND	ND	ND	ND
BH24-07	2	August 29, 2024	-	120	473	ND	ND	ND	97	83	97	180	430
BH24-08	0	August 30, 2024	-	-	8,465	ND	ND	ND	ND	ND	ND	ND	7,000
BH24-08	2	August 30, 2024	-	-	500	ND	ND	ND	ND	ND	ND	ND	270
BH24-09	0	August 30, 2024	-	9	225	ND	ND	ND	ND	ND	ND	ND	78
BH24-09	1	August 30, 2024	-	29	248	ND	ND	ND	ND	ND	ND	ND	110
BH24-10	0	August 30, 2024	-	-	935	ND	ND	ND	ND	ND	ND	ND	6,500
BH24-10	1	August 30, 2024	-	-	2,768	ND	ND	ND	ND	ND	ND	ND	1,900
BH24-10	2	September 17, 2024	-	-	113	ND	ND	ND	ND	ND	ND	ND	94
BH24-11	0	August 30, 2024	-	-	4,010	ND	ND	ND	ND	ND	ND	ND	2,400
BH24-11	1	August 30, 2024	-	-	2,515	ND	ND	ND	ND	ND	ND	ND	1,600
BH24-12	0	August 30, 2024	-	70	440	ND	ND	ND	36	ND	36	36	110
BH24-12	1	August 30, 2024	-	-	2,680	ND	ND	ND	12	ND	12	12	960
BH24-13	0	August 30, 2024	-	54	283	ND	ND	ND	ND	ND	ND	ND	110
BH24-13	1	August 30, 2024	-	-	2,680	ND	ND	ND	ND	ND	ND	ND	610
BH24-13	1.5	November 19, 2024	-	-	233	ND	ND	ND	ND	ND	ND	ND	176
BH24-13	2	November 19, 2024	-	-	235	ND	ND	ND	ND	ND	ND	ND	176
BH24-14	0	August 30, 2024	-	53	240	ND	ND	ND	ND	ND	ND	ND	ND
BH24-14	1	August 30, 2024	-	-	1,163	ND	ND	ND	ND	ND	ND	ND	1,700
BH24-15	0	September 3, 2024	-	29	400	ND	ND	ND	ND	ND	ND	ND	97
BH24-15	1	September 3, 2024	-	0	250	ND	ND	ND	ND	ND	ND	ND	66
BH24-16	0	September 3, 2024	-	8	4,125	ND	ND	ND	ND	ND	ND	ND	ND
BH24-16	1	September 3, 2024	-	-	2,127	ND	ND	ND	ND	ND	ND	ND	1,300
BH24-16	2	September 17, 2024	-	71	890	ND	ND	ND	ND	ND	ND	ND	690
BH24-16	3	September 17, 2024	-	63	320	ND	ND	ND	ND	ND	ND	ND	81
BH24-17	0	September 3, 2024	-	29	537	ND	ND	ND	ND	ND	ND	ND	190
BH24-17	1	September 3, 2024	-	31	475	ND	ND	ND	ND	ND	ND	ND	320
BH24-18	0	September 3, 2024	-	-	10,913	ND	ND	ND	ND	ND	ND	ND	8,900
BH24-18	2	September 3, 2024	-	-	4,968	ND	ND	ND	ND	ND	ND	ND	3,800
BH24-18	2	September 17, 2024	-	-	1,473	ND	ND	ND	ND	ND	ND	ND	770
BH24-18	3	September 17, 2024	-	-	437	ND	ND	ND	ND	ND	ND	ND	270
BH24-19	0	September 3, 2024	-	24	380	ND	ND	ND	ND	ND	ND	ND	110
BH24-19	1	September 3, 2024	-	20	410	ND	ND	ND	ND	ND	ND	ND	150
BH24-20	0	September 4, 2024	-	12	323	ND	ND	ND	ND	ND	ND	ND	66
BH24-20	0.5	September 4, 2024	-	19	388	ND	ND	ND	ND	ND	ND	ND	99
BH24-21	0	September 4, 2024	-	23	365	ND	ND	ND	ND	ND	ND	ND	60
BH24-21	1	September 4, 2024	-	21	158	ND	ND	ND	ND	ND	ND	ND	70

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH24-22	0	September 4, 2024	-	-	3,160	ND	ND	ND	ND	ND	ND	ND	2,200
BH24-22	1	September 4, 2024	-	-	1,573	ND	ND	ND	ND	ND	ND	ND	800
BH24-22	2	September 17, 2024	-	-	506	ND	ND	ND	ND	ND	ND	ND	62
BH24-22	3	September 17, 2024	-	-	575	ND	ND	ND	ND	ND	ND	ND	ND
BH24-23	0	September 4, 2024	-	-	3,060	ND	ND	ND	ND	ND	ND	ND	1,900
BH24-23	1	September 4, 2024	-	-	2,933	ND	ND	ND	ND	ND	ND	ND	2,100
BH24-24	0	September 5, 2024	-	22	225	ND	ND	ND	ND	ND	ND	ND	ND
BH24-24	1	September 5, 2024	-	28	133	ND	ND	ND	ND	ND	ND	ND	ND
BH24-25	0	September 5, 2024	-	-	3,025	-	-	-	-	-	-	-	-
BH24-25	1	September 5, 2024	-	-	300	-	-	-	-	-	-	-	-
BH24-26	0	September 5, 2024	-	-	275	-	-	-	-	-	-	-	-
BH24-26	2	September 5, 2024	-	-	3,958	-	-	-	-	-	-	-	-
BH24-27	0	September 5, 2024	-	-	4,973	-	-	-	-	-	-	-	-
BH24-27	1	September 5, 2024	-	-	1,685	-	-	-	-	-	-	-	-
BH24-28	0	September 5, 2024	-	75	223	ND	ND	ND	13	ND	13	13	ND
BH24-28	1	September 5, 2024	-	28	169	ND	ND	ND	ND	ND	ND	ND	130
BH24-29	0	September 5, 2024	-	-	1,610	-	-	-	-	-	-	-	-
BH24-29	2	September 5, 2024	-	-	2,370	-	-	-	-	-	-	-	-
BH24-30	0	September 17, 2024	-	-	147	ND	ND	ND	ND	ND	ND	ND	97
BH24-30	2	September 17, 2024	-	-	10,850	ND	ND	ND	ND	ND	ND	ND	4,100
BH24-30	3	September 17, 2024	-	-	9,000	ND	ND	ND	ND	ND	ND	ND	4,800
BH24-30	5	September 17, 2024	-	-	2,065	ND	ND	ND	ND	ND	ND	ND	1,300
BH24-31	0	September 18, 2024	-	-	200	ND	ND	ND	ND	ND	ND	ND	66
BH24-31	2	September 18, 2024	-	-	460	ND	ND	ND	ND	ND	ND	ND	ND
BH24-32	0	September 18, 2024	-	-	325	ND	ND	ND	ND	ND	ND	ND	130
BH24-32	2	September 18, 2024	-	-	203	ND	ND	ND	ND	ND	ND	ND	ND
BH24-33	0	September 18, 2024	-	-	180	ND	ND	ND	19	ND	ND	ND	69
BH24-33	2	September 18, 2024	-	-	112	ND	ND	ND	ND	ND	ND	ND	ND
BH24-34	0	November 14, 2024	-	-	410	ND	ND	ND	ND	ND	ND	ND	272
BH24-34	1	November 14, 2024	-	-	183	ND	ND	ND	ND	ND	ND	ND	80
BH24-35	0	November 13, 2024	-	-	135	ND	ND	ND	ND	ND	ND	ND	80
BH24-35	2	November 13, 2024	-	-	100	ND	ND	ND	ND	ND	ND	ND	64
BH24-36	0	November 13, 2024	-	-	7,973	-	-	-	-	-	-	-	-
BH24-36	1	November 13, 2024	-	-	2,898	-	-	-	-	-	-	-	-
BH24-37	0	November 13, 2024	-	-	3,268	-	-	-	-	-	-	-	-
BH24-37	0.5	November 13, 2024	-	-	2,785	-	-	-	-	-	-	-	-
BH24-37	2	November 19, 2024	-	35	523	ND	ND	ND	ND	ND	ND	ND	720
BH24-38	0	November 14, 2024	-	-	1,078	-	-	-	-	-	-	-	-
BH24-38	1	November 14, 2024	-	-	1,088	-	-	-	-	-	-	-	-
BH24-38	2	November 19, 2024	-	-	3,100	-	-	-	-	-	-	-	-
BH24-38	4	November 19, 2024	-	-	233	ND	ND	ND	ND	ND	ND	ND	144
BH24-39	0	November 14, 2024	-	-	115	ND	ND	ND	ND	ND	ND	ND	32
BH24-39	0.5	November 14, 2024	-	-	223	ND	ND	ND	ND	ND	ND	ND	144
BH24-40	0	November 14, 2024	-	-	578	ND	ND	ND	ND	ND	ND	ND	480
BH24-40	1	November 14, 2024	-	-	100	ND	ND	ND	ND	ND	ND	ND	64
BH24-41	0	November 19, 2024	-	76	360	ND	ND	ND	ND	ND	ND	ND	32
BH24-41	1	November 19, 2024	-	23	130	ND	ND	ND	ND	ND	ND	ND	64

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Reclamation Criteria (on-pad)

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

Attachment 3



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

November 22, 2024

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAWK 35 FED CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/18/24 12:25.

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, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 35 0' (H247018-01)

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	11/19/2024	ND	2.15	108	2.00	4.26		
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45		
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68		
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25		
Total BTEX	<0.300	0.300	11/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/13/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 35 2' (H247018-02)

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	11/19/2024	ND	2.15	108	2.00	4.26		
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45		
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68		
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25		
Total BTEX	<0.300	0.300	11/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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

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

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A handwritten signature in black ink, appearing to read "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

ANALYSIS REQUEST

BILL TO

Company Name: **Vertex Resource Group**
Project Manager: **Chance Dixon**

Address: **3101 Boyd dr.**

City: **Carlsbad NM** State: **NM** Zip: **88220**

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: **Hawk 35 CRB**

Project Location: _____

Sampler Name: _____

P.O. #:

Company: **EOG Resources**

Attn: **Chase Settle**

Address: **5509 Championsdr**

City: **Midland**

State: **Tx** Zip: **79706**

Phone #: **432-686-5600**

Fax #: _____

FOR LAB USE ONLY		Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS				
GROUNDWATER	WASTEWATER				SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			GRO.	DRO.	Chlorides	BTEX	
#B47018	BA24-35	0	G		X					X	11/13/24	9:30	X	X	X			
2	BA24-35	2	G		X					X	11/13/24	9:00	X	X	X			

PLEASE NOTE: Laboratory and Damages: Cardinal's liability and claims exclusion period for any claim arising whether based in contract or tort, shall be limited to the extent paid by the carrier for the service. All claims including those for negligence and any other cause whatsoever shall be waived unless made in writing and received by Cardinal within 30 days after completion of the laboratory service. If no claim is made for negligence or consequential damages, including without limitation, business interruption, loss of data, or loss of profits incurred by client, the above exclusion period shall be extended out of the date of the performance of the laboratory service to the date of the actual release of the sample to the client.

Relinquished By: **Katrina Taylor** Date: **11/13** Received By: _____

Relinquished By: **Katrina Taylor** Date: **11/13/24** Received By: **Chance Dixon**

Delivered By: (Circle One) ☒ Observed Temp: **26.0** Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No ☒ Checked By: **AP**

Sampler - UPS - Bus - Other: **26.0** Corrected Temp: **26.0** ☐ Yes ☐ No ☐ Yes ☐ No ☒ Turnaround Time: **1835** Standard: ☒ Bacteria (only) Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No ☐ Corrected Temp: **26.0**

REMARKS: **Edixon @ vertex resource.com, Katrina Taylor @ vertex.ca**

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



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

November 22, 2024

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAWK 35 FED CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/18/24 12:25.

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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 34 0' (H247017-01)

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	11/19/2024	ND	2.15	108	2.00	4.26	
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25	
Total BTEX	<0.300	0.300	11/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 34 1' (H247017-02)

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	11/20/2024	ND	2.15	108	2.00	4.26	
Toluene*	<0.050	0.050	11/20/2024	ND	2.19	109	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	2.10	105	2.00	5.68	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	6.75	112	6.00	5.25	
Total BTEX	<0.300	0.300	11/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 39 0' (H247017-03)

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	11/19/2024	ND	2.15	108	2.00	4.26		
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45		
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68		
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25		
Total BTEX	<0.300	0.300	11/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 39 0.5' (H247017-04)

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	11/19/2024	ND	2.15	108	2.00	4.26		
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45		
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68		
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25		
Total BTEX	<0.300	0.300	11/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 40 0' (H247017-05)

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	11/19/2024	ND	2.15	108	2.00	4.26		
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45		
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68		
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25		
Total BTEX	<0.300	0.300	11/19/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/18/2024
 Reported: 11/22/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 24 - 40 1' (H247017-06)

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	11/19/2024	ND	2.15	108	2.00	4.26	
Toluene*	<0.050	0.050	11/19/2024	ND	2.19	109	2.00	5.45	
Ethylbenzene*	<0.050	0.050	11/19/2024	ND	2.10	105	2.00	5.68	
Total Xylenes*	<0.150	0.150	11/19/2024	ND	6.75	112	6.00	5.25	
Total BTEX	<0.300	0.300	11/19/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/19/2024	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	11/19/2024	ND	199	99.3	200	0.559	
DRO >C10-C28*	<10.0	10.0	11/19/2024	ND	179	89.4	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	11/19/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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 Group**

Project Manager: **Chance Axon**

Address: **3101 Boyd dr**

City: **Arts and** State: **NM** Zip: **88220**

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: **Hawk 35 Fed CRG**

Project Location: _____ State: **Tx** Zip: **79706**

Sample Name: **Katrina Taylor** Phone #: **432-686-3600** Fax #: _____

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	GRO,	Chlor	Btex
H347017	BH24-34	6	1			X				X			11/11/24	9:00	X	X	X
1	BH24-34	1'												9:30			
2	BH24-34	0'												10:00			
3	BH24-34	0.5'												10:30			
4	BH24-40	0'												11:00			
5	BH24-40	1'												11:30			
6	BH24-40																

PLEASE NOTE: Labels and Damages: Cardinal's liability and client's responsibility for any claim arising from the use of the Chain of Custody form is limited to the accuracy of the information provided by the client. Cardinal Laboratories is not responsible for any claim arising from the use of the Chain of Custody form. Cardinal Laboratories is not responsible for any claim arising from the use of the Chain of Custody form. Cardinal Laboratories is not responsible for any claim arising from the use of the Chain of Custody form.

Relinquished By: _____ Date: **11/14** Received By: _____

Relinquished By: **Katrina Taylor**

Relinquished By: **Chance Axon**

Date: **11-18-24** Time: **5pm**

Time: **1835**

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp: **20.0** Corrected Temp: **20.0**

Sample Condition: **Good**

CHECKED BY: **APD**

Turnaround Time: **10:00**

Standard: **Yes**

Bacteria (only) Sample Condition: **Good**

Corrected Temp: **20.0**

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



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

November 26, 2024

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: HAWK 35 FED CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 13:30.

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, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 13 1.5' (H247134-01)

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	11/25/2024	ND	2.17	109	2.00	3.78		
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29		
Total BTEX	<0.300	0.300	11/25/2024	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	176	16.0	11/26/2024	ND	464	116	400	3.51		

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 13 2' (H247134-02)

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	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	176	16.0	11/26/2024	ND	464	116	400	3.51	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 37 2' (H247134-03)

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	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	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	720	16.0	11/26/2024	ND	464	116	400	3.51	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 38 4' (H247134-04)

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	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	144	16.0	11/26/2024	ND	464	116	400	3.51	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 41 0' (H247134-05)

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	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	11/26/2024	ND	464	116	400	3.51	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHANCE DIXON
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received: 11/21/2024
 Reported: 11/26/2024
 Project Name: HAWK 35 FED CTB
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 11/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH 24 - 41 1' (H247134-06)

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	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	64.0	16.0	11/26/2024	ND	464	116	400	3.51	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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 Group	P.O. #:	
Project Manager:	Chance Dixon	Company:	EOG Resources
Address:	3101 Boyd Dr	Attn:	Chase Settle
City:	Carlsbad	State:	NM
Zip:	88220	Address:	5509 Champions Dr.
Phone #:		City:	Mudland
Fax #:		State:	TX
Project #:		Zip:	79706
Project Name:	Hawk 35 Fed LTB	Phone #:	432-686-3600
Project Location:		Fax #:	
Sampler Name:	Katrina Taylor		

Lab I.D.	Sample I.D.	(G)RAV (C)OMP	# CONTAINERS	MATRIX					DATE	TIME	Gro, dro, MRO chlorides BTEX		
				GROUNDWATER	WASTEWATER	BOB	BOB	OTHER					
HA4734	BW24-13	1-S1	1						11/14/24	9:00	X	X	X
	BH24-13	2-S1	1							9:30			
	BH24-37	2-S1	1							10:00			
	BH24-38	4-S1	1							10:30			
	BW24-41	0-S1	1							11:00			
	BW24-41	1-S1	1							11:30			

PLEASE NOTE: Labels and containers must be clearly marked with the sample ID and the name of the sampler. All samples must be sealed and labeled before leaving the site. The sampler must be clearly marked with the sample ID and the name of the sampler. The sampler must be clearly marked with the sample ID and the name of the sampler. The sampler must be clearly marked with the sample ID and the name of the sampler.

Relinquished By: Katrina Taylor
Date: 11/19
Received By: Chad Riquelme
Time: 1330
Remarks: Dixon@vertexresource.com, Katrina.Taylor@vertex.com

Delivered By: (Circle One)
Sample: (PS, Bus, Other)
Corrected Temp: °C
Time: 1330
Received By: Chad Riquelme
Time: 1330
Remarks: Dixon@vertexresource.com, Katrina.Taylor@vertex.com



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/13/2024 3:23:50 PM

JOB DESCRIPTION

Hawk 5 Feb CTB

JOB NUMBER

885-11067-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109


Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

Preliminary Data

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Laboratory Job ID: 885-11067-1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	34
QC Association Summary	43
Lab Chronicle	50
Certification Summary	59
Chain of Custody	60
Receipt Checklists	63

Preliminary Data

Definitions/Glossary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Vertex
Project: Hawk 5 Feb CTB

Job ID: 885-11067-1

Job ID: 885-11067-1

Eurofins Albuquerque

Job Narrative 885-11067-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/4/2024 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-11747 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH24-11 0' (885-11067-21), BH24-11 1' (885-11067-22), BH24-13 0' (885-11067-23), BH24-13 1' (885-11067-24) and BH24-14 0' (885-11067-25).

Method 8015D_DRO: Surrogate recovery for the following sample was outside the upper control limit: BH24-08 2' (885-11067-16). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D_DRO: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (885-11067-A-25-C MS). The parent sample's surrogate recovery and MS was within limits. The MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-01 0'

Lab Sample ID: 885-11067-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/10/24 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166	09/04/24 12:31	09/10/24 19:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 19:12	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 19:12	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 19:12	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 12:31	09/10/24 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/04/24 12:31	09/10/24 19:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		9.7	mg/Kg		09/05/24 15:31	09/06/24 11:55	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 15:31	09/06/24 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	132		62 - 134	09/05/24 15:31	09/06/24 11:55	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6600		300	mg/Kg		09/06/24 09:55	09/09/24 21:36	100

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-11067-2

Date Collected: 08/29/24 09:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/10/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		35 - 166	09/04/24 12:31	09/10/24 20:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 20:17	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 20:17	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 20:17	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 12:31	09/10/24 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/10/24 20:17	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/05/24 15:31	09/06/24 12:06	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 15:31	09/06/24 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134	09/05/24 15:31	09/06/24 12:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96		60	mg/Kg		09/06/24 09:55	09/06/24 12:42	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-02 0'

Lab Sample ID: 885-11067-3

Date Collected: 08/29/24 10:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/04/24 12:31	09/10/24 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		35 - 166	09/04/24 12:31	09/10/24 21:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/10/24 21:22	1
Ethylbenzene	ND		0.047	mg/Kg		09/04/24 12:31	09/10/24 21:22	1
Toluene	ND		0.047	mg/Kg		09/04/24 12:31	09/10/24 21:22	1
Xylenes, Total	ND		0.095	mg/Kg		09/04/24 12:31	09/10/24 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145	09/04/24 12:31	09/10/24 21:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		9.3	mg/Kg		09/05/24 15:31	09/06/24 12:17	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/05/24 15:31	09/06/24 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	132		62 - 134	09/05/24 15:31	09/06/24 12:17	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6000		300	mg/Kg		09/06/24 09:55	09/09/24 21:48	100

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-02 2'

Lab Sample ID: 885-11067-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/10/24 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166	09/04/24 12:31	09/10/24 21:44	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 21:44	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 21:44	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 21:44	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 12:31	09/10/24 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145	09/04/24 12:31	09/10/24 21:44	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/05/24 15:31	09/06/24 12:27	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/05/24 15:31	09/06/24 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134	09/05/24 15:31	09/06/24 12:27	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		60	mg/Kg		09/06/24 09:55	09/06/24 13:12	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-03 0'

Lab Sample ID: 885-11067-5

Date Collected: 08/29/24 11:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		35 - 166	09/04/24 12:31	09/10/24 22:05	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 22:05	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:05	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:05	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/10/24 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		48 - 145	09/04/24 12:31	09/10/24 22:05	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 12:38	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/05/24 15:31	09/06/24 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134	09/05/24 15:31	09/06/24 12:38	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6800		300	mg/Kg		09/06/24 09:55	09/09/24 22:01	100

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-03 2'

Lab Sample ID: 885-11067-6

Date Collected: 08/29/24 11:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		35 - 166	09/04/24 12:31	09/10/24 22:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 22:27	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:27	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:27	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/10/24 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/10/24 22:27	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 12:49	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 15:31	09/06/24 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134	09/05/24 15:31	09/06/24 12:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600		150	mg/Kg		09/06/24 09:55	09/09/24 22:14	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-04 0'

Lab Sample ID: 885-11067-7

Date Collected: 08/29/24 12:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166	09/04/24 12:31	09/10/24 22:49	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/10/24 22:49	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:49	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 22:49	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/10/24 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/04/24 12:31	09/10/24 22:49	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		09/05/24 15:31	09/06/24 12:59	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 15:31	09/06/24 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134	09/05/24 15:31	09/06/24 12:59	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/06/24 09:55	09/06/24 14:28	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-04 2'

Lab Sample ID: 885-11067-8

Date Collected: 08/29/24 12:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166	09/04/24 12:31	09/10/24 23:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/10/24 23:11	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:11	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:11	1
Xylenes, Total	ND		0.097	mg/Kg		09/04/24 12:31	09/10/24 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		48 - 145	09/04/24 12:31	09/10/24 23:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/05/24 15:31	09/06/24 13:10	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 15:31	09/06/24 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	120		62 - 134	09/05/24 15:31	09/06/24 13:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/06/24 09:55	09/06/24 14:43	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-05 0'

Lab Sample ID: 885-11067-9

Date Collected: 08/29/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/04/24 12:31	09/10/24 23:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 23:32	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:32	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:32	1
Xylenes, Total	ND		0.099	mg/Kg		09/04/24 12:31	09/10/24 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/10/24 23:32	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 13:31	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 15:31	09/06/24 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134	09/05/24 15:31	09/06/24 13:31	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		150	mg/Kg		09/06/24 09:55	09/09/24 22:27	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-05 2'

Lab Sample ID: 885-11067-10

Date Collected: 08/29/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/10/24 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166	09/04/24 12:31	09/10/24 23:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 23:54	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:54	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/10/24 23:54	1
Xylenes, Total	ND		0.099	mg/Kg		09/04/24 12:31	09/10/24 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		48 - 145	09/04/24 12:31	09/10/24 23:54	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/05/24 15:31	09/06/24 13:42	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 15:31	09/06/24 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	134		62 - 134	09/05/24 15:31	09/06/24 13:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		60	mg/Kg		09/06/24 09:55	09/06/24 15:14	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-06 0'

Lab Sample ID: 885-11067-11

Date Collected: 08/29/24 14:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/11/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166	09/04/24 12:31	09/11/24 00:38	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/11/24 00:38	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 00:38	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 00:38	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/11/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/04/24 12:31	09/11/24 00:38	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 13:53	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/05/24 15:31	09/06/24 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134	09/05/24 15:31	09/06/24 13:53	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		150	mg/Kg		09/06/24 09:55	09/09/24 22:40	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-06 2'

Lab Sample ID: 885-11067-12

Date Collected: 08/29/24 14:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/11/24 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		35 - 166	09/04/24 12:31	09/11/24 01:00	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/11/24 01:00	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 01:00	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 01:00	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/11/24 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		48 - 145	09/04/24 12:31	09/11/24 01:00	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/05/24 15:31	09/06/24 14:04	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 15:31	09/06/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	124		62 - 134	09/05/24 15:31	09/06/24 14:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		150	mg/Kg		09/06/24 09:55	09/09/24 22:53	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-07 0'

Lab Sample ID: 885-11067-13

Date Collected: 08/29/24 15:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/11/24 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	09/04/24 12:31	09/11/24 01:21	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/11/24 01:21	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 01:21	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 01:21	1
Xylenes, Total	ND		0.099	mg/Kg		09/04/24 12:31	09/11/24 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145	09/04/24 12:31	09/11/24 01:21	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 14:14	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/05/24 15:31	09/06/24 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134	09/05/24 15:31	09/06/24 14:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/06/24 09:55	09/06/24 16:29	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-07 2'

Lab Sample ID: 885-11067-14

Date Collected: 08/29/24 15:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 12:31	09/11/24 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		35 - 166	09/04/24 12:31	09/11/24 01:43	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/11/24 01:43	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 12:31	09/11/24 01:43	1
Toluene	ND		0.048	mg/Kg		09/04/24 12:31	09/11/24 01:43	1
Xylenes, Total	ND		0.097	mg/Kg		09/04/24 12:31	09/11/24 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145	09/04/24 12:31	09/11/24 01:43	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	97		9.6	mg/Kg		09/05/24 15:31	09/06/24 14:25	1
Motor Oil Range Organics [C28-C40]	83		48	mg/Kg		09/05/24 15:31	09/06/24 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	130		62 - 134	09/05/24 15:31	09/06/24 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430		60	mg/Kg		09/06/24 09:55	09/06/24 16:45	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-08 0'

Lab Sample ID: 885-11067-15

Date Collected: 08/29/24 16:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/11/24 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166	09/04/24 12:31	09/11/24 02:05	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/11/24 02:05	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 02:05	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 02:05	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/11/24 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/04/24 12:31	09/11/24 02:05	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/24 15:31	09/06/24 14:36	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 15:31	09/06/24 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134	09/05/24 15:31	09/06/24 14:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7000		300	mg/Kg		09/06/24 09:55	09/09/24 23:06	100

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-11067-16

Date Collected: 08/29/24 16:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/04/24 12:31	09/11/24 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166	09/04/24 12:31	09/11/24 02:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/11/24 02:27	1
Ethylbenzene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 02:27	1
Toluene	ND		0.049	mg/Kg		09/04/24 12:31	09/11/24 02:27	1
Xylenes, Total	ND		0.098	mg/Kg		09/04/24 12:31	09/11/24 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		48 - 145	09/04/24 12:31	09/11/24 02:27	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/05/24 15:31	09/06/24 14:47	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 15:31	09/06/24 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	137	S1+	62 - 134	09/05/24 15:31	09/06/24 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	270		60	mg/Kg		09/06/24 09:55	09/06/24 17:45	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-09 0'

Lab Sample ID: 885-11067-17

Date Collected: 08/30/24 09:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 12:31	09/11/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	09/04/24 12:31	09/11/24 02:48	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/11/24 02:48	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 12:31	09/11/24 02:48	1
Toluene	ND		0.048	mg/Kg		09/04/24 12:31	09/11/24 02:48	1
Xylenes, Total	ND		0.096	mg/Kg		09/04/24 12:31	09/11/24 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		48 - 145	09/04/24 12:31	09/11/24 02:48	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/05/24 15:31	09/06/24 14:58	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 15:31	09/06/24 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	122		62 - 134	09/05/24 15:31	09/06/24 14:58	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		60	mg/Kg		09/06/24 09:55	09/06/24 18:00	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-09 2'

Lab Sample ID: 885-11067-18

Date Collected: 08/30/24 09:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/04/24 12:31	09/11/24 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/04/24 12:31	09/11/24 03:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 12:31	09/11/24 03:10	1
Ethylbenzene	ND		0.047	mg/Kg		09/04/24 12:31	09/11/24 03:10	1
Toluene	ND		0.047	mg/Kg		09/04/24 12:31	09/11/24 03:10	1
Xylenes, Total	ND		0.095	mg/Kg		09/04/24 12:31	09/11/24 03:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145	09/04/24 12:31	09/11/24 03:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/05/24 15:31	09/06/24 15:10	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/05/24 15:31	09/06/24 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134	09/05/24 15:31	09/06/24 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		09/06/24 09:55	09/06/24 18:16	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-10 0'

Lab Sample ID: 885-11067-19

Date Collected: 08/30/24 10:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/11/24 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		35 - 166	09/04/24 12:31	09/11/24 03:32	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/11/24 03:32	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/11/24 03:32	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/11/24 03:32	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 12:31	09/11/24 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/11/24 03:32	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/05/24 15:31	09/06/24 15:32	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 15:31	09/06/24 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134	09/05/24 15:31	09/06/24 15:32	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6500		300	mg/Kg		09/06/24 09:55	09/09/24 23:19	100

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-10 1'

Lab Sample ID: 885-11067-20

Date Collected: 08/30/24 10:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/11/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		35 - 166	09/04/24 12:31	09/11/24 03:54	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/11/24 03:54	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/11/24 03:54	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/11/24 03:54	1
Xylenes, Total	ND		0.099	mg/Kg		09/04/24 12:31	09/11/24 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/11/24 03:54	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/05/24 15:31	09/06/24 15:43	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 15:31	09/06/24 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134	09/05/24 15:31	09/06/24 15:43	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		60	mg/Kg		09/06/24 09:55	09/06/24 18:46	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-11 0'

Lab Sample ID: 885-11067-21

Date Collected: 08/30/24 11:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/04/24 17:14	09/10/24 01:07	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 01:07	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:07	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:07	1
Xylenes, Total	ND		0.097	mg/Kg		09/04/24 17:14	09/10/24 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145	09/04/24 17:14	09/10/24 01:07	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/05/24 10:28	09/07/24 02:26	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 10:28	09/07/24 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134	09/05/24 10:28	09/07/24 02:26	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		150	mg/Kg		09/05/24 12:27	09/06/24 19:46	50

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-11 1'

Lab Sample ID: 885-11067-22

Date Collected: 08/30/24 11:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		35 - 166	09/04/24 17:14	09/10/24 01:29	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 01:29	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:29	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:29	1
Xylenes, Total	ND		0.095	mg/Kg		09/04/24 17:14	09/10/24 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/04/24 17:14	09/10/24 01:29	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		09/05/24 10:28	09/07/24 02:51	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 10:28	09/07/24 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134	09/05/24 10:28	09/07/24 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		60	mg/Kg		09/05/24 12:27	09/05/24 22:40	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-13 0'

Lab Sample ID: 885-11067-23

Date Collected: 08/30/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		35 - 166	09/04/24 17:14	09/10/24 01:50	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 01:50	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:50	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 01:50	1
Xylenes, Total	ND		0.095	mg/Kg		09/04/24 17:14	09/10/24 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		48 - 145	09/04/24 17:14	09/10/24 01:50	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/05/24 10:28	09/07/24 03:16	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/05/24 10:28	09/07/24 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134	09/05/24 10:28	09/07/24 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		09/05/24 12:27	09/05/24 22:53	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-13 1'

Lab Sample ID: 885-11067-24

Date Collected: 08/30/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/04/24 17:14	09/10/24 02:12	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 02:12	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 02:12	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 02:12	1
Xylenes, Total	ND		0.095	mg/Kg		09/04/24 17:14	09/10/24 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		48 - 145	09/04/24 17:14	09/10/24 02:12	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/05/24 10:28	09/07/24 03:40	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/05/24 10:28	09/07/24 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134	09/05/24 10:28	09/07/24 03:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		60	mg/Kg		09/05/24 12:27	09/05/24 23:06	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-14 0'

Lab Sample ID: 885-11067-25

Date Collected: 08/30/24 14:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		35 - 166	09/04/24 17:14	09/10/24 02:56	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 02:56	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 02:56	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 02:56	1
Xylenes, Total	ND		0.096	mg/Kg		09/04/24 17:14	09/10/24 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		48 - 145	09/04/24 17:14	09/10/24 02:56	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		09/05/24 10:28	09/07/24 04:05	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		09/05/24 10:28	09/07/24 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	09/05/24 10:28	09/07/24 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/05/24 12:27	09/05/24 23:19	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-14 1'

Lab Sample ID: 885-11067-26

Date Collected: 08/30/24 14:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/04/24 17:14	09/10/24 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		35 - 166	09/04/24 17:14	09/10/24 03:17	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/04/24 17:14	09/10/24 03:17	1
Ethylbenzene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 03:17	1
Toluene	ND		0.048	mg/Kg		09/04/24 17:14	09/10/24 03:17	1
Xylenes, Total	ND		0.096	mg/Kg		09/04/24 17:14	09/10/24 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 17:14	09/10/24 03:17	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/06/24 08:52	09/12/24 13:54	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/06/24 08:52	09/12/24 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	126		62 - 134	09/06/24 08:52	09/12/24 13:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		60	mg/Kg		09/10/24 16:17	09/10/24 18:48	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-12 0'

Lab Sample ID: 885-11067-27

Date Collected: 08/30/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/05/24 12:55	09/11/24 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166	09/05/24 12:55	09/11/24 22:45	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/05/24 12:55	09/11/24 22:45	1
Ethylbenzene	ND		0.050	mg/Kg		09/05/24 12:55	09/11/24 22:45	1
Toluene	ND		0.050	mg/Kg		09/05/24 12:55	09/11/24 22:45	1
Xylenes, Total	ND		0.10	mg/Kg		09/05/24 12:55	09/11/24 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		48 - 145	09/05/24 12:55	09/11/24 22:45	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		9.5	mg/Kg		09/06/24 10:28	09/10/24 22:54	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/06/24 10:28	09/10/24 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	106		62 - 134	09/06/24 10:28	09/10/24 22:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60	mg/Kg		09/09/24 09:17	09/09/24 16:26	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-12 1'

Lab Sample ID: 885-11067-28

Date Collected: 08/30/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/05/24 12:55	09/11/24 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166	09/05/24 12:55	09/11/24 23:50	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/05/24 12:55	09/11/24 23:50	1
Ethylbenzene	ND		0.049	mg/Kg		09/05/24 12:55	09/11/24 23:50	1
Toluene	ND		0.049	mg/Kg		09/05/24 12:55	09/11/24 23:50	1
Xylenes, Total	ND		0.099	mg/Kg		09/05/24 12:55	09/11/24 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		48 - 145	09/05/24 12:55	09/11/24 23:50	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		10	mg/Kg		09/06/24 10:28	09/10/24 23:18	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/06/24 10:28	09/10/24 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134	09/06/24 10:28	09/10/24 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	960		60	mg/Kg		09/09/24 09:17	09/09/24 16:39	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11593/1-A

Matrix: Solid

Analysis Batch: 11992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11593

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 12:31	09/10/24 18:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		35 - 166			09/04/24 12:31	09/10/24 18:50	1

Lab Sample ID: LCS 885-11593/2-A

Matrix: Solid

Analysis Batch: 11992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	24.9		mg/Kg		99	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	222		35 - 166					

Lab Sample ID: 885-11067-1 MS

Matrix: Solid

Analysis Batch: 11992

Client Sample ID: BH24-01 0'

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	ND		24.8	24.2		mg/Kg		98	70 - 130	
Surrogate	MS %Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	209		35 - 166							

Lab Sample ID: 885-11067-1 MSD

Matrix: Solid

Analysis Batch: 11992

Client Sample ID: BH24-01 0'

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		25.0	25.1		mg/Kg		101	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	214		35 - 166								

Lab Sample ID: MB 885-11625/1-A

Matrix: Solid

Analysis Batch: 11898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/04/24 17:14	09/09/24 21:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		35 - 166			09/04/24 17:14	09/09/24 21:08	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 885-11625/2-A

Matrix: Solid

Analysis Batch: 11898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	23.8		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220	S1+	35 - 166				

Lab Sample ID: MB 885-11668/1-A

Matrix: Solid

Analysis Batch: 12111

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11668

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/05/24 12:55	09/11/24 22:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	117		35 - 166	09/05/24 12:55	09/11/24 22:23	1		

Lab Sample ID: LCS 885-11668/2-A

Matrix: Solid

Analysis Batch: 12111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.2		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	220	S1+	35 - 166				

Lab Sample ID: 885-11067-27 MS

Matrix: Solid

Analysis Batch: 12111

Client Sample ID: BH24-12 0'

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		25.0	24.8		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	225	S1+	35 - 166						

Lab Sample ID: 885-11067-27 MSD

Matrix: Solid

Analysis Batch: 12111

Client Sample ID: BH24-12 0'

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.7	24.4		mg/Kg		99	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	212	S1+	35 - 166								

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11593/1-A

Matrix: Solid

Analysis Batch: 11994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11593

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 12:31	09/10/24 18:50	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 18:50	1
Toluene	ND		0.050	mg/Kg		09/04/24 12:31	09/10/24 18:50	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 12:31	09/10/24 18:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 12:31	09/10/24 18:50	1

Lab Sample ID: LCS 885-11593/3-A

Matrix: Solid

Analysis Batch: 11994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.00		mg/Kg		100	70 - 130
Ethylbenzene	1.00	0.991		mg/Kg		99	70 - 130
Toluene	1.00	0.999		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		48 - 145

Lab Sample ID: 885-11067-2 MS

Matrix: Solid

Analysis Batch: 11994

Client Sample ID: BH24-01 2'

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.993	1.03		mg/Kg		104	70 - 130
Ethylbenzene	ND		0.993	1.03		mg/Kg		104	70 - 130
Toluene	ND		0.993	1.02		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		48 - 145

Lab Sample ID: 885-11067-2 MSD

Matrix: Solid

Analysis Batch: 11994

Client Sample ID: BH24-01 2'

Prep Type: Total/NA

Prep Batch: 11593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.999	0.970		mg/Kg		97	70 - 130	6	20
Ethylbenzene	ND		0.999	0.976		mg/Kg		98	70 - 130	6	20
Toluene	ND		0.999	0.975		mg/Kg		98	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		48 - 145

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-11625/1-A

Matrix: Solid

Analysis Batch: 11900

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11625

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/04/24 17:14	09/09/24 21:08	1
Ethylbenzene	ND		0.050	mg/Kg		09/04/24 17:14	09/09/24 21:08	1
Toluene	ND		0.050	mg/Kg		09/04/24 17:14	09/09/24 21:08	1
Xylenes, Total	ND		0.10	mg/Kg		09/04/24 17:14	09/09/24 21:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/04/24 17:14	09/09/24 21:08	1

Lab Sample ID: LCS 885-11625/3-A

Matrix: Solid

Analysis Batch: 11900

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.06		mg/Kg		106	70 - 130
Ethylbenzene	1.00	1.06		mg/Kg		106	70 - 130
Toluene	1.00	1.05		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		48 - 145

Lab Sample ID: MB 885-11668/1-A

Matrix: Solid

Analysis Batch: 12113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11668

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/05/24 12:55	09/11/24 22:23	1
Ethylbenzene	ND		0.050	mg/Kg		09/05/24 12:55	09/11/24 22:23	1
Toluene	ND		0.050	mg/Kg		09/05/24 12:55	09/11/24 22:23	1
Xylenes, Total	ND		0.10	mg/Kg		09/05/24 12:55	09/11/24 22:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		48 - 145	09/05/24 12:55	09/11/24 22:23	1

Lab Sample ID: LCS 885-11668/3-A

Matrix: Solid

Analysis Batch: 12113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.07		mg/Kg		107	70 - 130
Ethylbenzene	1.00	1.07		mg/Kg		107	70 - 130
Toluene	1.00	1.07		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		48 - 145

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-11067-28 MS

Matrix: Solid

Analysis Batch: 12113

Client Sample ID: BH24-12 1'

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.981	0.961		mg/Kg		98	70 - 130
Ethylbenzene	ND		0.981	0.952		mg/Kg		97	70 - 130
Toluene	ND		0.981	0.959		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		48 - 145

Lab Sample ID: 885-11067-28 MSD

Matrix: Solid

Analysis Batch: 12113

Client Sample ID: BH24-12 1'

Prep Type: Total/NA

Prep Batch: 11668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.991	0.982		mg/Kg		99	70 - 130	2	20
Ethylbenzene	ND		0.991	0.979		mg/Kg		99	70 - 130	3	20
Toluene	ND		0.991	0.987		mg/Kg		100	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-11654/1-A

Matrix: Solid

Analysis Batch: 11747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11654

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/24 10:28	09/06/24 17:22	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 10:28	09/06/24 17:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	09/05/24 10:28	09/06/24 17:22	1

Lab Sample ID: LCS 885-11654/2-A

Matrix: Solid

Analysis Batch: 11747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	59.0		mg/Kg		118	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	102		62 - 134

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-11067-25 MS

Matrix: Solid

Analysis Batch: 11911

Client Sample ID: BH24-14 0'

Prep Type: Total/NA

Prep Batch: 11654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		47.8	64.3		mg/Kg		135	44 - 136		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Di-n-octyl phthalate (Surr)	136	S1+	62 - 134								

Lab Sample ID: 885-11067-25 MSD

Matrix: Solid

Analysis Batch: 11911

Client Sample ID: BH24-14 0'

Prep Type: Total/NA

Prep Batch: 11654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		45.8	52.2		mg/Kg		114	44 - 136	21	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	120		62 - 134								

Lab Sample ID: MB 885-11702/1-A

Matrix: Solid

Analysis Batch: 11720

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11702

MB MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/05/24 15:31	09/06/24 11:34	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/05/24 15:31	09/06/24 11:34	1
MB MB								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			09/05/24 15:31	09/06/24 11:34	1

Lab Sample ID: LCS 885-11702/2-A

Matrix: Solid

Analysis Batch: 11720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11702

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics			50.0	51.9		mg/Kg		104	60 - 135		
[C10-C28]											
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
Di-n-octyl phthalate (Surr)	126		62 - 134								

Lab Sample ID: 885-11067-20 MS

Matrix: Solid

Analysis Batch: 11720

Client Sample ID: BH24-10 1'

Prep Type: Total/NA

Prep Batch: 11702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		47.8	47.4		mg/Kg		99	44 - 136

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-11067-20 MS

Matrix: Solid

Analysis Batch: 11720

Client Sample ID: BH24-10 1'

Prep Type: Total/NA

Prep Batch: 11702

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	126		62 - 134

Lab Sample ID: 885-11067-20 MSD

Matrix: Solid

Analysis Batch: 11720

Client Sample ID: BH24-10 1'

Prep Type: Total/NA

Prep Batch: 11702

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.4	41.4		mg/Kg		89	44 - 136	13	32

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	115		62 - 134

Lab Sample ID: MB 885-11729/1-A

Matrix: Solid

Analysis Batch: 12103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11729

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/06/24 08:52	09/12/24 13:00	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/06/24 08:52	09/12/24 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134	09/06/24 08:52	09/12/24 13:00	1

Lab Sample ID: LCS 885-11729/2-A

Matrix: Solid

Analysis Batch: 12103

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	56.8		mg/Kg		114	60 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Di-n-octyl phthalate (Surr)	124		62 - 134

Lab Sample ID: MB 885-11750/1-A

Matrix: Solid

Analysis Batch: 11911

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11750

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/06/24 10:28	09/10/24 22:05	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/06/24 10:28	09/10/24 22:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134	09/06/24 10:28	09/10/24 22:05	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-11750/2-A

Matrix: Solid

Analysis Batch: 11911

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	57.4		mg/Kg		115	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	105		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-11664/1-A

Matrix: Solid

Analysis Batch: 11764

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11664

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/05/24 12:27	09/05/24 17:19	1

Lab Sample ID: LCS 885-11664/2-A

Matrix: Solid

Analysis Batch: 11764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	29.0		mg/Kg		97	90 - 110

Lab Sample ID: MB 885-11743/1-A

Matrix: Solid

Analysis Batch: 11799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11743

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/06/24 09:55	09/06/24 11:19	1

Lab Sample ID: LCS 885-11743/2-A

Matrix: Solid

Analysis Batch: 11799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	30.2		mg/Kg		101	90 - 110

Lab Sample ID: MB 885-11764/4

Matrix: Solid

Analysis Batch: 11764

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	mg/Kg			09/05/24 11:17	1

Lab Sample ID: MRL 885-11764/3

Matrix: Solid

Analysis Batch: 11764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.527		mg/L		105	50 - 150

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-11827/1-A

Matrix: Solid

Analysis Batch: 11864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11827

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/09/24 09:17	09/09/24 14:44	1

Lab Sample ID: LCS 885-11827/2-A

Matrix: Solid

Analysis Batch: 11864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	31.1		mg/Kg		104	90 - 110

Lab Sample ID: MB 885-11944/1-A

Matrix: Solid

Analysis Batch: 12229

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11944

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/10/24 11:30	09/10/24 13:38	1

Lab Sample ID: LCS 885-11944/2-A

Matrix: Solid

Analysis Batch: 12229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	32.3		mg/Kg		108	90 - 110

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

GC VOA

Prep Batch: 11593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	5030C	
885-11067-2	BH24-01 2'	Total/NA	Solid	5030C	
885-11067-3	BH24-02 0'	Total/NA	Solid	5030C	
885-11067-4	BH24-02 2'	Total/NA	Solid	5030C	
885-11067-5	BH24-03 0'	Total/NA	Solid	5030C	
885-11067-6	BH24-03 2'	Total/NA	Solid	5030C	
885-11067-7	BH24-04 0'	Total/NA	Solid	5030C	
885-11067-8	BH24-04 2'	Total/NA	Solid	5030C	
885-11067-9	BH24-05 0'	Total/NA	Solid	5030C	
885-11067-10	BH24-05 2'	Total/NA	Solid	5030C	
885-11067-11	BH24-06 0'	Total/NA	Solid	5030C	
885-11067-12	BH24-06 2'	Total/NA	Solid	5030C	
885-11067-13	BH24-07 0'	Total/NA	Solid	5030C	
885-11067-14	BH24-07 2'	Total/NA	Solid	5030C	
885-11067-15	BH24-08 0'	Total/NA	Solid	5030C	
885-11067-16	BH24-08 2'	Total/NA	Solid	5030C	
885-11067-17	BH24-09 0'	Total/NA	Solid	5030C	
885-11067-18	BH24-09 2'	Total/NA	Solid	5030C	
885-11067-19	BH24-10 0'	Total/NA	Solid	5030C	
885-11067-20	BH24-10 1'	Total/NA	Solid	5030C	
MB 885-11593/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11593/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11593/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11067-1 MS	BH24-01 0'	Total/NA	Solid	5030C	
885-11067-1 MSD	BH24-01 0'	Total/NA	Solid	5030C	
885-11067-2 MS	BH24-01 2'	Total/NA	Solid	5030C	
885-11067-2 MSD	BH24-01 2'	Total/NA	Solid	5030C	

Prep Batch: 11625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	5030C	
885-11067-22	BH24-11 1'	Total/NA	Solid	5030C	
885-11067-23	BH24-13 0'	Total/NA	Solid	5030C	
885-11067-24	BH24-13 1'	Total/NA	Solid	5030C	
885-11067-25	BH24-14 0'	Total/NA	Solid	5030C	
885-11067-26	BH24-14 1'	Total/NA	Solid	5030C	
MB 885-11625/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11625/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11625/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 11668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	5030C	
885-11067-28	BH24-12 1'	Total/NA	Solid	5030C	
MB 885-11668/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11668/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11668/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11067-27 MS	BH24-12 0'	Total/NA	Solid	5030C	
885-11067-27 MSD	BH24-12 0'	Total/NA	Solid	5030C	
885-11067-28 MS	BH24-12 1'	Total/NA	Solid	5030C	
885-11067-28 MSD	BH24-12 1'	Total/NA	Solid	5030C	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

GC VOA

Analysis Batch: 11898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	8015M/D	11625
885-11067-22	BH24-11 1'	Total/NA	Solid	8015M/D	11625
885-11067-23	BH24-13 0'	Total/NA	Solid	8015M/D	11625
885-11067-24	BH24-13 1'	Total/NA	Solid	8015M/D	11625
885-11067-25	BH24-14 0'	Total/NA	Solid	8015M/D	11625
885-11067-26	BH24-14 1'	Total/NA	Solid	8015M/D	11625
MB 885-11625/1-A	Method Blank	Total/NA	Solid	8015M/D	11625
LCS 885-11625/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11625

Analysis Batch: 11900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	8021B	11625
885-11067-22	BH24-11 1'	Total/NA	Solid	8021B	11625
885-11067-23	BH24-13 0'	Total/NA	Solid	8021B	11625
885-11067-24	BH24-13 1'	Total/NA	Solid	8021B	11625
885-11067-25	BH24-14 0'	Total/NA	Solid	8021B	11625
885-11067-26	BH24-14 1'	Total/NA	Solid	8021B	11625
MB 885-11625/1-A	Method Blank	Total/NA	Solid	8021B	11625
LCS 885-11625/3-A	Lab Control Sample	Total/NA	Solid	8021B	11625

Analysis Batch: 11992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	8015M/D	11593
885-11067-2	BH24-01 2'	Total/NA	Solid	8015M/D	11593
885-11067-3	BH24-02 0'	Total/NA	Solid	8015M/D	11593
885-11067-4	BH24-02 2'	Total/NA	Solid	8015M/D	11593
885-11067-5	BH24-03 0'	Total/NA	Solid	8015M/D	11593
885-11067-6	BH24-03 2'	Total/NA	Solid	8015M/D	11593
885-11067-7	BH24-04 0'	Total/NA	Solid	8015M/D	11593
885-11067-8	BH24-04 2'	Total/NA	Solid	8015M/D	11593
885-11067-9	BH24-05 0'	Total/NA	Solid	8015M/D	11593
885-11067-10	BH24-05 2'	Total/NA	Solid	8015M/D	11593
885-11067-11	BH24-06 0'	Total/NA	Solid	8015M/D	11593
885-11067-12	BH24-06 2'	Total/NA	Solid	8015M/D	11593
885-11067-13	BH24-07 0'	Total/NA	Solid	8015M/D	11593
885-11067-14	BH24-07 2'	Total/NA	Solid	8015M/D	11593
885-11067-15	BH24-08 0'	Total/NA	Solid	8015M/D	11593
885-11067-16	BH24-08 2'	Total/NA	Solid	8015M/D	11593
885-11067-17	BH24-09 0'	Total/NA	Solid	8015M/D	11593
885-11067-18	BH24-09 2'	Total/NA	Solid	8015M/D	11593
885-11067-19	BH24-10 0'	Total/NA	Solid	8015M/D	11593
885-11067-20	BH24-10 1'	Total/NA	Solid	8015M/D	11593
MB 885-11593/1-A	Method Blank	Total/NA	Solid	8015M/D	11593
LCS 885-11593/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11593
885-11067-1 MS	BH24-01 0'	Total/NA	Solid	8015M/D	11593
885-11067-1 MSD	BH24-01 0'	Total/NA	Solid	8015M/D	11593

Analysis Batch: 11994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	8021B	11593
885-11067-2	BH24-01 2'	Total/NA	Solid	8021B	11593

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QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

GC VOA (Continued)

Analysis Batch: 11994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-3	BH24-02 0'	Total/NA	Solid	8021B	11593
885-11067-4	BH24-02 2'	Total/NA	Solid	8021B	11593
885-11067-5	BH24-03 0'	Total/NA	Solid	8021B	11593
885-11067-6	BH24-03 2'	Total/NA	Solid	8021B	11593
885-11067-7	BH24-04 0'	Total/NA	Solid	8021B	11593
885-11067-8	BH24-04 2'	Total/NA	Solid	8021B	11593
885-11067-9	BH24-05 0'	Total/NA	Solid	8021B	11593
885-11067-10	BH24-05 2'	Total/NA	Solid	8021B	11593
885-11067-11	BH24-06 0'	Total/NA	Solid	8021B	11593
885-11067-12	BH24-06 2'	Total/NA	Solid	8021B	11593
885-11067-13	BH24-07 0'	Total/NA	Solid	8021B	11593
885-11067-14	BH24-07 2'	Total/NA	Solid	8021B	11593
885-11067-15	BH24-08 0'	Total/NA	Solid	8021B	11593
885-11067-16	BH24-08 2'	Total/NA	Solid	8021B	11593
885-11067-17	BH24-09 0'	Total/NA	Solid	8021B	11593
885-11067-18	BH24-09 2'	Total/NA	Solid	8021B	11593
885-11067-19	BH24-10 0'	Total/NA	Solid	8021B	11593
885-11067-20	BH24-10 1'	Total/NA	Solid	8021B	11593
MB 885-11593/1-A	Method Blank	Total/NA	Solid	8021B	11593
LCS 885-11593/3-A	Lab Control Sample	Total/NA	Solid	8021B	11593
885-11067-2 MS	BH24-01 2'	Total/NA	Solid	8021B	11593
885-11067-2 MSD	BH24-01 2'	Total/NA	Solid	8021B	11593

Analysis Batch: 12111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	8015M/D	11668
885-11067-28	BH24-12 1'	Total/NA	Solid	8015M/D	11668
MB 885-11668/1-A	Method Blank	Total/NA	Solid	8015M/D	11668
LCS 885-11668/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11668
885-11067-27 MS	BH24-12 0'	Total/NA	Solid	8015M/D	11668
885-11067-27 MSD	BH24-12 0'	Total/NA	Solid	8015M/D	11668

Analysis Batch: 12113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	8021B	11668
885-11067-28	BH24-12 1'	Total/NA	Solid	8021B	11668
MB 885-11668/1-A	Method Blank	Total/NA	Solid	8021B	11668
LCS 885-11668/3-A	Lab Control Sample	Total/NA	Solid	8021B	11668
885-11067-28 MS	BH24-12 1'	Total/NA	Solid	8021B	11668
885-11067-28 MSD	BH24-12 1'	Total/NA	Solid	8021B	11668

GC Semi VOA

Prep Batch: 11654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	SHAKE	
885-11067-22	BH24-11 1'	Total/NA	Solid	SHAKE	
885-11067-23	BH24-13 0'	Total/NA	Solid	SHAKE	
885-11067-24	BH24-13 1'	Total/NA	Solid	SHAKE	
885-11067-25	BH24-14 0'	Total/NA	Solid	SHAKE	
MB 885-11654/1-A	Method Blank	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

GC Semi VOA (Continued)

Prep Batch: 11654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-11654/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-11067-25 MS	BH24-14 0'	Total/NA	Solid	SHAKE	
885-11067-25 MSD	BH24-14 0'	Total/NA	Solid	SHAKE	

Prep Batch: 11702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	SHAKE	
885-11067-2	BH24-01 2'	Total/NA	Solid	SHAKE	
885-11067-3	BH24-02 0'	Total/NA	Solid	SHAKE	
885-11067-4	BH24-02 2'	Total/NA	Solid	SHAKE	
885-11067-5	BH24-03 0'	Total/NA	Solid	SHAKE	
885-11067-6	BH24-03 2'	Total/NA	Solid	SHAKE	
885-11067-7	BH24-04 0'	Total/NA	Solid	SHAKE	
885-11067-8	BH24-04 2'	Total/NA	Solid	SHAKE	
885-11067-9	BH24-05 0'	Total/NA	Solid	SHAKE	
885-11067-10	BH24-05 2'	Total/NA	Solid	SHAKE	
885-11067-11	BH24-06 0'	Total/NA	Solid	SHAKE	
885-11067-12	BH24-06 2'	Total/NA	Solid	SHAKE	
885-11067-13	BH24-07 0'	Total/NA	Solid	SHAKE	
885-11067-14	BH24-07 2'	Total/NA	Solid	SHAKE	
885-11067-15	BH24-08 0'	Total/NA	Solid	SHAKE	
885-11067-16	BH24-08 2'	Total/NA	Solid	SHAKE	
885-11067-17	BH24-09 0'	Total/NA	Solid	SHAKE	
885-11067-18	BH24-09 2'	Total/NA	Solid	SHAKE	
885-11067-19	BH24-10 0'	Total/NA	Solid	SHAKE	
885-11067-20	BH24-10 1'	Total/NA	Solid	SHAKE	
MB 885-11702/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11702/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-11067-20 MS	BH24-10 1'	Total/NA	Solid	SHAKE	
885-11067-20 MSD	BH24-10 1'	Total/NA	Solid	SHAKE	

Analysis Batch: 11720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	8015M/D	11702
885-11067-2	BH24-01 2'	Total/NA	Solid	8015M/D	11702
885-11067-3	BH24-02 0'	Total/NA	Solid	8015M/D	11702
885-11067-4	BH24-02 2'	Total/NA	Solid	8015M/D	11702
885-11067-5	BH24-03 0'	Total/NA	Solid	8015M/D	11702
885-11067-6	BH24-03 2'	Total/NA	Solid	8015M/D	11702
885-11067-7	BH24-04 0'	Total/NA	Solid	8015M/D	11702
885-11067-8	BH24-04 2'	Total/NA	Solid	8015M/D	11702
885-11067-9	BH24-05 0'	Total/NA	Solid	8015M/D	11702
885-11067-10	BH24-05 2'	Total/NA	Solid	8015M/D	11702
885-11067-11	BH24-06 0'	Total/NA	Solid	8015M/D	11702
885-11067-12	BH24-06 2'	Total/NA	Solid	8015M/D	11702
885-11067-13	BH24-07 0'	Total/NA	Solid	8015M/D	11702
885-11067-14	BH24-07 2'	Total/NA	Solid	8015M/D	11702
885-11067-15	BH24-08 0'	Total/NA	Solid	8015M/D	11702
885-11067-16	BH24-08 2'	Total/NA	Solid	8015M/D	11702
885-11067-17	BH24-09 0'	Total/NA	Solid	8015M/D	11702
885-11067-18	BH24-09 2'	Total/NA	Solid	8015M/D	11702

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

GC Semi VOA (Continued)

Analysis Batch: 11720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-19	BH24-10 0'	Total/NA	Solid	8015M/D	11702
885-11067-20	BH24-10 1'	Total/NA	Solid	8015M/D	11702
MB 885-11702/1-A	Method Blank	Total/NA	Solid	8015M/D	11702
LCS 885-11702/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11702
885-11067-20 MS	BH24-10 1'	Total/NA	Solid	8015M/D	11702
885-11067-20 MSD	BH24-10 1'	Total/NA	Solid	8015M/D	11702

Prep Batch: 11729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-26	BH24-14 1'	Total/NA	Solid	SHAKE	
MB 885-11729/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11729/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 11747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	8015M/D	11654
885-11067-22	BH24-11 1'	Total/NA	Solid	8015M/D	11654
885-11067-23	BH24-13 0'	Total/NA	Solid	8015M/D	11654
885-11067-24	BH24-13 1'	Total/NA	Solid	8015M/D	11654
885-11067-25	BH24-14 0'	Total/NA	Solid	8015M/D	11654
MB 885-11654/1-A	Method Blank	Total/NA	Solid	8015M/D	11654
LCS 885-11654/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11654

Prep Batch: 11750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	SHAKE	
885-11067-28	BH24-12 1'	Total/NA	Solid	SHAKE	
MB 885-11750/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-11750/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 11911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	8015M/D	11750
885-11067-28	BH24-12 1'	Total/NA	Solid	8015M/D	11750
MB 885-11750/1-A	Method Blank	Total/NA	Solid	8015M/D	11750
LCS 885-11750/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11750
885-11067-25 MS	BH24-14 0'	Total/NA	Solid	8015M/D	11654
885-11067-25 MSD	BH24-14 0'	Total/NA	Solid	8015M/D	11654

Analysis Batch: 12103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-26	BH24-14 1'	Total/NA	Solid	8015M/D	11729
MB 885-11729/1-A	Method Blank	Total/NA	Solid	8015M/D	11729
LCS 885-11729/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11729

HPLC/IC

Prep Batch: 11664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-21	BH24-11 0'	Total/NA	Solid	300_Prep	
885-11067-22	BH24-11 1'	Total/NA	Solid	300_Prep	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

HPLC/IC (Continued)

Prep Batch: 11664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-23	BH24-13 0'	Total/NA	Solid	300_Prep	
885-11067-24	BH24-13 1'	Total/NA	Solid	300_Prep	
885-11067-25	BH24-14 0'	Total/NA	Solid	300_Prep	
MB 885-11664/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11664/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 11743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	300_Prep	
885-11067-2	BH24-01 2'	Total/NA	Solid	300_Prep	
885-11067-3	BH24-02 0'	Total/NA	Solid	300_Prep	
885-11067-4	BH24-02 2'	Total/NA	Solid	300_Prep	
885-11067-5	BH24-03 0'	Total/NA	Solid	300_Prep	
885-11067-6	BH24-03 2'	Total/NA	Solid	300_Prep	
885-11067-7	BH24-04 0'	Total/NA	Solid	300_Prep	
885-11067-8	BH24-04 2'	Total/NA	Solid	300_Prep	
885-11067-9	BH24-05 0'	Total/NA	Solid	300_Prep	
885-11067-10	BH24-05 2'	Total/NA	Solid	300_Prep	
885-11067-11	BH24-06 0'	Total/NA	Solid	300_Prep	
885-11067-12	BH24-06 2'	Total/NA	Solid	300_Prep	
885-11067-13	BH24-07 0'	Total/NA	Solid	300_Prep	
885-11067-14	BH24-07 2'	Total/NA	Solid	300_Prep	
885-11067-15	BH24-08 0'	Total/NA	Solid	300_Prep	
885-11067-16	BH24-08 2'	Total/NA	Solid	300_Prep	
885-11067-17	BH24-09 0'	Total/NA	Solid	300_Prep	
885-11067-18	BH24-09 2'	Total/NA	Solid	300_Prep	
885-11067-19	BH24-10 0'	Total/NA	Solid	300_Prep	
885-11067-20	BH24-10 1'	Total/NA	Solid	300_Prep	
MB 885-11743/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11743/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-22	BH24-11 1'	Total/NA	Solid	300.0	11664
885-11067-23	BH24-13 0'	Total/NA	Solid	300.0	11664
885-11067-24	BH24-13 1'	Total/NA	Solid	300.0	11664
885-11067-25	BH24-14 0'	Total/NA	Solid	300.0	11664
MB 885-11664/1-A	Method Blank	Total/NA	Solid	300.0	11664
MB 885-11764/4	Method Blank	Total/NA	Solid	300.0	
LCS 885-11664/2-A	Lab Control Sample	Total/NA	Solid	300.0	11664
MRL 885-11764/3	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 11799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-2	BH24-01 2'	Total/NA	Solid	300.0	11743
885-11067-4	BH24-02 2'	Total/NA	Solid	300.0	11743
885-11067-7	BH24-04 0'	Total/NA	Solid	300.0	11743
885-11067-8	BH24-04 2'	Total/NA	Solid	300.0	11743
885-11067-10	BH24-05 2'	Total/NA	Solid	300.0	11743
885-11067-13	BH24-07 0'	Total/NA	Solid	300.0	11743
885-11067-14	BH24-07 2'	Total/NA	Solid	300.0	11743

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QC Association Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

HPLC/IC (Continued)

Analysis Batch: 11799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-16	BH24-08 2'	Total/NA	Solid	300.0	11743
885-11067-17	BH24-09 0'	Total/NA	Solid	300.0	11743
885-11067-18	BH24-09 2'	Total/NA	Solid	300.0	11743
885-11067-20	BH24-10 1'	Total/NA	Solid	300.0	11743
885-11067-21	BH24-11 0'	Total/NA	Solid	300.0	11664
MB 885-11743/1-A	Method Blank	Total/NA	Solid	300.0	11743
LCS 885-11743/2-A	Lab Control Sample	Total/NA	Solid	300.0	11743

Prep Batch: 11827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-27	BH24-12 0'	Total/NA	Solid	300_Prep	
885-11067-28	BH24-12 1'	Total/NA	Solid	300_Prep	
MB 885-11827/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11827/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 11864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-1	BH24-01 0'	Total/NA	Solid	300.0	11743
885-11067-3	BH24-02 0'	Total/NA	Solid	300.0	11743
885-11067-5	BH24-03 0'	Total/NA	Solid	300.0	11743
885-11067-6	BH24-03 2'	Total/NA	Solid	300.0	11743
885-11067-9	BH24-05 0'	Total/NA	Solid	300.0	11743
885-11067-11	BH24-06 0'	Total/NA	Solid	300.0	11743
885-11067-12	BH24-06 2'	Total/NA	Solid	300.0	11743
885-11067-15	BH24-08 0'	Total/NA	Solid	300.0	11743
885-11067-19	BH24-10 0'	Total/NA	Solid	300.0	11743
885-11067-27	BH24-12 0'	Total/NA	Solid	300.0	11827
885-11067-28	BH24-12 1'	Total/NA	Solid	300.0	11827
MB 885-11827/1-A	Method Blank	Total/NA	Solid	300.0	11827
LCS 885-11827/2-A	Lab Control Sample	Total/NA	Solid	300.0	11827

Prep Batch: 11944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-26	BH24-14 1'	Total/NA	Solid	300_Prep	
MB 885-11944/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-11944/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 12229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11067-26	BH24-14 1'	Total/NA	Solid	300.0	11944
MB 885-11944/1-A	Method Blank	Total/NA	Solid	300.0	11944
LCS 885-11944/2-A	Lab Control Sample	Total/NA	Solid	300.0	11944

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-01 0'

Lab Sample ID: 885-11067-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 19:12
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 19:12
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 11:55
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		100	11864	EH	EET ALB	09/09/24 21:36

Client Sample ID: BH24-01 2'

Lab Sample ID: 885-11067-2

Date Collected: 08/29/24 09:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 20:17
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 20:17
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:06
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 12:42

Client Sample ID: BH24-02 0'

Lab Sample ID: 885-11067-3

Date Collected: 08/29/24 10:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 21:22
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 21:22
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:17
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		100	11864	EH	EET ALB	09/09/24 21:48

Client Sample ID: BH24-02 2'

Lab Sample ID: 885-11067-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 21:44

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-02 2'

Lab Sample ID: 885-11067-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 21:44
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:27
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 13:12

Client Sample ID: BH24-03 0'

Lab Sample ID: 885-11067-5

Date Collected: 08/29/24 11:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 22:05
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 22:05
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:38
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		100	11864	EH	EET ALB	09/09/24 22:01

Client Sample ID: BH24-03 2'

Lab Sample ID: 885-11067-6

Date Collected: 08/29/24 11:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 22:27
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 22:27
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:49
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		50	11864	EH	EET ALB	09/09/24 22:14

Client Sample ID: BH24-04 0'

Lab Sample ID: 885-11067-7

Date Collected: 08/29/24 12:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 22:49
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 22:49

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-04 0'

Lab Sample ID: 885-11067-7

Date Collected: 08/29/24 12:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 12:59
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 14:28

Client Sample ID: BH24-04 2'

Lab Sample ID: 885-11067-8

Date Collected: 08/29/24 12:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 23:11
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 23:11
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 13:10
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 14:43

Client Sample ID: BH24-05 0'

Lab Sample ID: 885-11067-9

Date Collected: 08/29/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 23:32
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 23:32
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 13:31
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		50	11864	EH	EET ALB	09/09/24 22:27

Client Sample ID: BH24-05 2'

Lab Sample ID: 885-11067-10

Date Collected: 08/29/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/10/24 23:54
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/10/24 23:54
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 13:42

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-05 2'

Lab Sample ID: 885-11067-10

Date Collected: 08/29/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 15:14

Client Sample ID: BH24-06 0'

Lab Sample ID: 885-11067-11

Date Collected: 08/29/24 14:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 00:38
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 00:38
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 13:53
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		50	11864	EH	EET ALB	09/09/24 22:40

Client Sample ID: BH24-06 2'

Lab Sample ID: 885-11067-12

Date Collected: 08/29/24 14:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 01:00
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 01:00
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:04
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		50	11864	EH	EET ALB	09/09/24 22:53

Client Sample ID: BH24-07 0'

Lab Sample ID: 885-11067-13

Date Collected: 08/29/24 15:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 01:21
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 01:21
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:14
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 16:29

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-07 2'

Lab Sample ID: 885-11067-14

Date Collected: 08/29/24 15:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 01:43
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 01:43
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:25
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 16:45

Client Sample ID: BH24-08 0'

Lab Sample ID: 885-11067-15

Date Collected: 08/29/24 16:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 02:05
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 02:05
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:36
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		100	11864	EH	EET ALB	09/09/24 23:06

Client Sample ID: BH24-08 2'

Lab Sample ID: 885-11067-16

Date Collected: 08/29/24 16:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 02:27
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 02:27
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:47
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 17:45

Client Sample ID: BH24-09 0'

Lab Sample ID: 885-11067-17

Date Collected: 08/30/24 09:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 02:48

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-09 0'

Date Collected: 08/30/24 09:00

Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 02:48
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 14:58
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 18:00

Client Sample ID: BH24-09 2'

Date Collected: 08/30/24 09:30

Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 03:10
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 03:10
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 15:10
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 18:16

Client Sample ID: BH24-10 0'

Date Collected: 08/30/24 10:00

Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 03:32
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 03:32
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 15:32
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		100	11864	EH	EET ALB	09/09/24 23:19

Client Sample ID: BH24-10 1'

Date Collected: 08/30/24 10:30

Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8015M/D		1	11992	AT	EET ALB	09/11/24 03:54
Total/NA	Prep	5030C			11593	AT	EET ALB	09/04/24 12:31
Total/NA	Analysis	8021B		1	11994	AT	EET ALB	09/11/24 03:54

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-10 1'

Lab Sample ID: 885-11067-20

Date Collected: 08/30/24 10:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11702	EM	EET ALB	09/05/24 15:31
Total/NA	Analysis	8015M/D		1	11720	EM	EET ALB	09/06/24 15:43
Total/NA	Prep	300_Prep			11743	EH	EET ALB	09/06/24 09:55
Total/NA	Analysis	300.0		20	11799	EH	EET ALB	09/06/24 18:46

Client Sample ID: BH24-11 0'

Lab Sample ID: 885-11067-21

Date Collected: 08/30/24 11:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 01:07
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 01:07
Total/NA	Prep	SHAKE			11654	KR	EET ALB	09/05/24 10:28
Total/NA	Analysis	8015M/D		1	11747	KR	EET ALB	09/07/24 02:26
Total/NA	Prep	300_Prep			11664	EH	EET ALB	09/05/24 12:27
Total/NA	Analysis	300.0		50	11799	EH	EET ALB	09/06/24 19:46

Client Sample ID: BH24-11 1'

Lab Sample ID: 885-11067-22

Date Collected: 08/30/24 11:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 01:29
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 01:29
Total/NA	Prep	SHAKE			11654	KR	EET ALB	09/05/24 10:28
Total/NA	Analysis	8015M/D		1	11747	KR	EET ALB	09/07/24 02:51
Total/NA	Prep	300_Prep			11664	EH	EET ALB	09/05/24 12:27
Total/NA	Analysis	300.0		20	11764	JT	EET ALB	09/05/24 22:40

Client Sample ID: BH24-13 0'

Lab Sample ID: 885-11067-23

Date Collected: 08/30/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 01:50
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 01:50
Total/NA	Prep	SHAKE			11654	KR	EET ALB	09/05/24 10:28
Total/NA	Analysis	8015M/D		1	11747	KR	EET ALB	09/07/24 03:16

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-13 0'

Lab Sample ID: 885-11067-23

Date Collected: 08/30/24 13:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			11664	EH	EET ALB	09/05/24 12:27
Total/NA	Analysis	300.0		20	11764	JT	EET ALB	09/05/24 22:53

Client Sample ID: BH24-13 1'

Lab Sample ID: 885-11067-24

Date Collected: 08/30/24 13:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 02:12
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 02:12
Total/NA	Prep	SHAKE			11654	KR	EET ALB	09/05/24 10:28
Total/NA	Analysis	8015M/D		1	11747	KR	EET ALB	09/07/24 03:40
Total/NA	Prep	300_Prep			11664	EH	EET ALB	09/05/24 12:27
Total/NA	Analysis	300.0		20	11764	JT	EET ALB	09/05/24 23:06

Client Sample ID: BH24-14 0'

Lab Sample ID: 885-11067-25

Date Collected: 08/30/24 14:00

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 02:56
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 02:56
Total/NA	Prep	SHAKE			11654	KR	EET ALB	09/05/24 10:28
Total/NA	Analysis	8015M/D		1	11747	KR	EET ALB	09/07/24 04:05
Total/NA	Prep	300_Prep			11664	EH	EET ALB	09/05/24 12:27
Total/NA	Analysis	300.0		20	11764	JT	EET ALB	09/05/24 23:19

Client Sample ID: BH24-14 1'

Lab Sample ID: 885-11067-26

Date Collected: 08/30/24 14:30

Matrix: Solid

Date Received: 09/04/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8015M/D		1	11898	AT	EET ALB	09/10/24 03:17
Total/NA	Prep	5030C			11625	AT	EET ALB	09/04/24 17:14
Total/NA	Analysis	8021B		1	11900	AT	EET ALB	09/10/24 03:17
Total/NA	Prep	SHAKE			11729	EM	EET ALB	09/06/24 08:52
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/12/24 13:54
Total/NA	Prep	300_Prep			11944	EH	EET ALB	09/10/24 16:17
Total/NA	Analysis	300.0		20	12229	EH	EET ALB	09/10/24 18:48

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Client Sample ID: BH24-12 0'
Date Collected: 08/30/24 13:00
Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11668	JP	EET ALB	09/05/24 12:55
Total/NA	Analysis	8015M/D		1	12111	AT	EET ALB	09/11/24 22:45
Total/NA	Prep	5030C			11668	JP	EET ALB	09/05/24 12:55
Total/NA	Analysis	8021B		1	12113	AT	EET ALB	09/11/24 22:45
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/10/24 22:54
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 16:26

Client Sample ID: BH24-12 1'
Date Collected: 08/30/24 13:30
Date Received: 09/04/24 07:45

Lab Sample ID: 885-11067-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11668	JP	EET ALB	09/05/24 12:55
Total/NA	Analysis	8015M/D		1	12111	AT	EET ALB	09/11/24 23:50
Total/NA	Prep	5030C			11668	JP	EET ALB	09/05/24 12:55
Total/NA	Analysis	8021B		1	12113	AT	EET ALB	09/11/24 23:50
Total/NA	Prep	SHAKE			11750	KR	EET ALB	09/06/24 10:28
Total/NA	Analysis	8015M/D		1	11911	KR	EET ALB	09/10/24 23:18
Total/NA	Prep	300_Prep			11827	EH	EET ALB	09/09/24 09:17
Total/NA	Analysis	300.0		20	11864	EH	EET ALB	09/09/24 16:39

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: Hawk 5 Feb CTB

Job ID: 885-11067-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

Preliminary Data

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Chain-of-Custody Record

Client: Vertex (bill to EOG)

Mailing Address 3101 Boyd Dr.,

Carlsbad, NM, 88220

Phone #: 575 725-5001

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush

Project Name:

Hawk 35 Feb CTB

Project #:

24E-03931

Project Manager:

Chance Dixon

Cdixon@vertexresources.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 1.7-0.1-1.0--

Container Type and #

Preservative Type

HEAL No.

BTEX / MTBE / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date: 8/29/24

Time: 14:30

Relinquished by: [Signature]

Date: 9/3/24

Time: 19:00

Relinquished by: [Signature]

Received by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Received by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Remarks:

Direct Bill to EOG Resources,

ATTN: Chase Settle (chase_settle@eogresources.com)

CC: Chance Dixon Cdixon@vertexresources.com) for Final Report.

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

Chain-of-Custody Record

Client: Vertex (bill to EOG)

Mailing Address 3101 Boyd Dr.,

Carlsbad, NM, 88220

Phone #: 575 725-5001

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush

Project Name:

Hawk 35 Feb CTB

Project #:

24E-03931

Project Manager:

Chance Dixon

Cdixon@vertexresources.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 1.7-0.1-1.0--

Container Type and #

Preservative Type

HEAL No.

BTEX / MTBE / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date: 8/29/24

Time: 14:30

Relinquished by: [Signature]

Date: 9/3/24

Time: 19:00

Relinquished by: [Signature]

Received by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Date: 9/3/24

Time: 14:30

Relinquished by: [Signature]

Remarks:

Direct Bill to EOG Resources,

ATTN: Chase Settle (chase_settle@eogresources.com)

CC: Chance Dixon Cdixon@vertexresources.com) for Final Report.

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

Chain-of-Custody Record

Client: Vertex (bill to EOG)

Turn-Around Time:

☒ Standard ☒ Rush 5 Days

Project Name:

Hawk 35 Feb CTB

Project #:

24E-03931

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler:

K. Taylor

On Ice: ☒ Yes ☐ No

chubby

of Coolers: 1

Cooler Temp (including CF): 13-0.1-1.0

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

8.29.24 15:00 Soil BH24-07 0'

8.29.24 15:30 Soil BH24-07 2'

8.29.24 16:00 Soil BH24-08 0'

8.29.24 16:30 Soil BH24-08 2'

8.30.24 9:00 Soil BH24-09 0'

8.30.24 9:30 Soil BH24-09 2'

8.30.24 10:00 Soil BH24-10 0'

8.30.24 10:30 Soil BH24-10 1'

8.30.24 11:00 Soil BH24-11 0'

8.30.24 11:30 Soil BH24-11 1'

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

4oz Jar

ICE

ICE

ICE

ICE

ICE

ICE

ICE

ICE

ICE

ICE

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

x

**HALL ENVIRONMENTAL
ANALYSIS LABO**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87

Tel. 505-345-3975 Fax 505-345-410

TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
C, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)Carrier
9/14/24 7:43

9/13/24 9:45

9/13/24 9:45

Chain-of-Custody Record

Client: Vertex (bill to EOG)

Turn-Around Time:

☒ Standard ☒ Rush 9/14/24

Project Name:

Mailing Address 3101 Boyd Dr,

Hawk 35 Feb CTB

Carlsbad, NM, 88220

Phone #: 575 725-5001

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Date Time Matrix Sample Name

8.30.24 1:00 Soil BH24-13 0'

8.30.24 1:30 Soil BH24-13 1'

8.30.24 2:00 Soil BH24-14 0'

8.30.24 2:30 Soil BH24-14 1'

8/30 18:00 BH24-12 0'

8/30 18:30 BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

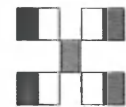
4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

HALL ENVIRONMENTAL
ANALYSIS LABO

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87

Tel. 505-345-3975 Fax 505-345-410

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Container Type and #

4oz Jar

4oz Jar

4oz Jar

4oz Jar

BH24-12 0'

BH24-12 1'

1 Added per client.

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No chuck

of Coolers: 1

Cooler Temp (including CP): 1.7 - 0.1 = 1.6

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-11067-1

Login Number: 11067

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/19/2024 3:15:28 PM

JOB DESCRIPTION

Hawk 35 Feb CTB

JOB NUMBER

885-11326-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

Generated
9/19/2024 3:15:28 PM

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Laboratory Job ID: 885-11326-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	16
QC Association Summary	20
Lab Chronicle	23
Certification Summary	27
Chain of Custody	28
Receipt Checklists	29



Definitions/Glossary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Hawk 35 Feb CTB

Job ID: 885-11326-1

Job ID: 885-11326-1

Eurofins Albuquerque

Job Narrative 885-11326-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/7/2024 7:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample date on COC indicates 8/29/24, while the label indicates 9/3. Client was contacted and instructed to go with COC.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-15 0'

Lab Sample ID: 885-11326-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/07/24 07:49

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		09/09/24 10:20	09/10/24 18:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/09/24 10:20	09/10/24 18:47	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 18:47	1	
Ethylbenzene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 18:47	1	
Toluene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 18:47	1	
Xylenes, Total	ND		0.093	mg/Kg		09/09/24 10:20	09/10/24 18:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 18:47	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		09/10/24 11:15	09/13/24 23:58	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/10/24 11:15	09/13/24 23:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	106		62 - 134			09/10/24 11:15	09/13/24 23:58	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	97		60	mg/Kg		09/11/24 10:54	09/11/24 17:14	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-15 1'
Date Collected: 08/29/24 09:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/09/24 10:20	09/10/24 19:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 19:11	1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 19:11	1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 19:11	1
Xylenes, Total	ND		0.099	mg/Kg		09/09/24 10:20	09/10/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 10:20	09/10/24 19:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/10/24 11:15	09/14/24 00:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/10/24 11:15	09/14/24 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			09/10/24 11:15	09/14/24 00:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66		60	mg/Kg		09/11/24 10:54	09/11/24 17:27	20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-16 0'
Date Collected: 08/29/24 10:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-3
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 19:34		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		35 - 166			09/09/24 10:20	09/10/24 19:34		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 19:34		1
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 19:34		1
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 19:34		1
Xylenes, Total	ND		0.096	mg/Kg		09/09/24 10:20	09/10/24 19:34		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 19:34		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/10/24 11:15	09/14/24 00:20		1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/10/24 11:15	09/14/24 00:20		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	114		62 - 134			09/10/24 11:15	09/14/24 00:20		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/11/24 10:54	09/11/24 18:05		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-16 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/09/24 10:20	09/10/24 19:57		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 10:20	09/10/24 19:57		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 19:57		1
Ethylbenzene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 19:57		1
Toluene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 19:57		1
Xylenes, Total	ND		0.098	mg/Kg		09/09/24 10:20	09/10/24 19:57		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		48 - 145			09/09/24 10:20	09/10/24 19:57		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/10/24 11:15	09/14/24 00:30		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/10/24 11:15	09/14/24 00:30		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	101		62 - 134			09/10/24 11:15	09/14/24 00:30		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1300		60	mg/Kg		09/11/24 10:54	09/11/24 18:18		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-17 0'
Date Collected: 08/29/24 11:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/09/24 10:20	09/10/24 20:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		35 - 166			09/09/24 10:20	09/10/24 20:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 20:21	1	
Ethylbenzene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 20:21	1	
Toluene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 20:21	1	
Xylenes, Total	ND		0.098	mg/Kg		09/09/24 10:20	09/10/24 20:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		48 - 145			09/09/24 10:20	09/10/24 20:21	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/10/24 11:15	09/14/24 00:41	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/10/24 11:15	09/14/24 00:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	102		62 - 134			09/10/24 11:15	09/14/24 00:41	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	190		60	mg/Kg		09/11/24 10:54	09/11/24 18:31	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-17 1'
Date Collected: 08/29/24 11:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-6
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		09/09/24 10:20	09/10/24 20:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 10:20	09/10/24 20:44	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 20:44	1	
Ethylbenzene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 20:44	1	
Toluene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 20:44	1	
Xylenes, Total	ND		0.092	mg/Kg		09/09/24 10:20	09/10/24 20:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		48 - 145			09/09/24 10:20	09/10/24 20:44	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/10/24 11:15	09/14/24 00:52	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/10/24 11:15	09/14/24 00:52	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	102		62 - 134			09/10/24 11:15	09/14/24 00:52	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	320		60	mg/Kg		09/11/24 10:54	09/11/24 18:44	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-18 0'

Lab Sample ID: 885-11326-7

Date Collected: 08/29/24 12:00

Matrix: Solid

Date Received: 09/07/24 07:49

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 21:08	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			09/09/24 10:20	09/10/24 21:08	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 21:08	1	
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 21:08	1	
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 21:08	1	
Xylenes, Total	ND		0.097	mg/Kg		09/09/24 10:20	09/10/24 21:08	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 21:08	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/10/24 11:15	09/14/24 01:03	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/10/24 11:15	09/14/24 01:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			09/10/24 11:15	09/14/24 01:03	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	8900		300	mg/Kg		09/11/24 10:54	09/12/24 08:01	100	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-18 2'
Date Collected: 08/29/24 12:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/09/24 10:20	09/10/24 21:54		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/09/24 10:20	09/10/24 21:54		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 21:54		1
Ethylbenzene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 21:54		1
Toluene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 21:54		1
Xylenes, Total	ND		0.097	mg/Kg		09/09/24 10:20	09/10/24 21:54		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 21:54		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/10/24 11:15	09/14/24 01:14		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/10/24 11:15	09/14/24 01:14		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	102		62 - 134			09/10/24 11:15	09/14/24 01:14		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3800		150	mg/Kg		09/11/24 10:54	09/12/24 08:14		50

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-19 0'
Date Collected: 08/29/24 13:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-9
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 12:39	09/10/24 23:52	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/09/24 12:39	09/10/24 23:52	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 12:39	09/10/24 23:52	1	
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 12:39	09/10/24 23:52	1	
Toluene	ND		0.048	mg/Kg		09/09/24 12:39	09/10/24 23:52	1	
Xylenes, Total	ND		0.096	mg/Kg		09/09/24 12:39	09/10/24 23:52	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 12:39	09/10/24 23:52	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/11/24 10:42	09/13/24 20:31	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/11/24 10:42	09/13/24 20:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	112		62 - 134			09/11/24 10:42	09/13/24 20:31	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	110		60	mg/Kg		09/11/24 13:14	09/11/24 20:40	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-19 2'
Date Collected: 08/29/24 13:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-10
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 12:39	09/11/24 01:02		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		35 - 166			09/09/24 12:39	09/11/24 01:02		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 12:39	09/11/24 01:02		1
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 12:39	09/11/24 01:02		1
Toluene	ND		0.048	mg/Kg		09/09/24 12:39	09/11/24 01:02		1
Xylenes, Total	ND		0.095	mg/Kg		09/09/24 12:39	09/11/24 01:02		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		48 - 145			09/09/24 12:39	09/11/24 01:02		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/11/24 11:22	09/12/24 05:57		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/11/24 11:22	09/12/24 05:57		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	107		62 - 134			09/11/24 11:22	09/12/24 05:57		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	150		60	mg/Kg		09/11/24 13:14	09/11/24 19:48		20

QC Sample Results

Client: Vertex

Job ID: 885-11326-1

Project/Site: Hawk 35 Feb CTB

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 10:20	09/10/24 11:22	1

Lab Sample ID: LCS 885-11837/2-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.8		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	200		35 - 166				

Lab Sample ID: MB 885-11859/1-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11859

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 12:39	09/10/24 23:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 12:39	09/10/24 23:28	1

Lab Sample ID: LCS 885-11859/2-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.3		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	208	S1+	35 - 166				

Lab Sample ID: 885-11326-9 MS

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: BH24-19 0'

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.0	23.8		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	209		35 - 166						

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QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-11326-9 MSD

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: BH24-19 0'

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		23.9	24.2		mg/Kg		101	70 - 130	2	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	215		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	88		48 - 145	09/09/24 10:20	09/10/24 11:22	1		

Lab Sample ID: LCS 885-11837/3-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Benzene			1.00	0.926		mg/Kg		93		70 - 130	
Ethylbenzene			1.00	0.856		mg/Kg		86		70 - 130	
Toluene			1.00	0.868		mg/Kg		87		70 - 130	
Surrogate		LCS	LCS	Limits							
		%Recovery	Qualifier								
4-Bromofluorobenzene (Surr)		90		48 - 145							

Lab Sample ID: MB 885-11859/1-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11859

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/09/24 12:39	09/10/24 23:28	1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 12:39	09/10/24 23:28	1
Toluene	ND		0.050	mg/Kg		09/09/24 12:39	09/10/24 23:28	1
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 12:39	09/10/24 23:28	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	86		48 - 145	09/09/24 12:39	09/10/24 23:28	1		

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QC Sample Results

Client: Vertex

Job ID: 885-11326-1

Project/Site: Hawk 35 Feb CTB

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-11859/3-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.902		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.815		mg/Kg		82	70 - 130
Toluene	1.00	0.838		mg/Kg		84	70 - 130
LCS		LCS					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		48 - 145				

Lab Sample ID: 885-11326-10 MS

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: BH24-19 2'

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.956	0.856		mg/Kg		90	70 - 130
Ethylbenzene	ND		0.956	0.807		mg/Kg		84	70 - 130
Toluene	ND		0.956	0.817		mg/Kg		84	70 - 130
MS		MS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		48 - 145						

Lab Sample ID: 885-11326-10 MSD

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: BH24-19 2'

Prep Type: Total/NA

Prep Batch: 11859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Benzene	ND		0.948	0.823		mg/Kg		87	70 - 130	4	20
Ethylbenzene	ND		0.948	0.768		mg/Kg		81	70 - 130	5	20
Toluene	ND		0.948	0.781		mg/Kg		81	70 - 130	5	20
MSD		MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	88		48 - 145								

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12008/1-A

Matrix: Solid

Analysis Batch: 12013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12008

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/11/24 11:22	09/12/24 05:09	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/11/24 11:22	09/12/24 05:09	1
MB		MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed		Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	09/11/24 11:22		09/12/24 05:09		1

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QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-12008/2-A

Matrix: Solid

Analysis Batch: 12013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	58.7		mg/Kg		117	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	102		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12006/1-A

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12006

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/11/24 10:54	09/11/24 12:56	1

Lab Sample ID: LCS 885-12006/2-A

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	31.9		mg/Kg		106	90 - 110

Lab Sample ID: MB 885-12047/1-A

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12047

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/11/24 13:14	09/11/24 19:23	1

Lab Sample ID: LCS 885-12047/2-A

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	32.9		mg/Kg		110	90 - 110

Lab Sample ID: 885-11326-9 MS

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: BH24-19 0'

Prep Type: Total/NA

Prep Batch: 12047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	110		29.8	132		mg/Kg		84	50 - 150

Lab Sample ID: 885-11326-9 MSD

Matrix: Solid

Analysis Batch: 12093

Client Sample ID: BH24-19 0'

Prep Type: Total/NA

Prep Batch: 12047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110		30.0	136		mg/Kg		96	50 - 150	3	20

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QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

GC VOA

Prep Batch: 11837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	5030C	
885-11326-2	BH24-15 1'	Total/NA	Solid	5030C	
885-11326-3	BH24-16 0'	Total/NA	Solid	5030C	
885-11326-4	BH24-16 1'	Total/NA	Solid	5030C	
885-11326-5	BH24-17 0'	Total/NA	Solid	5030C	
885-11326-6	BH24-17 1'	Total/NA	Solid	5030C	
885-11326-7	BH24-18 0'	Total/NA	Solid	5030C	
885-11326-8	BH24-18 2'	Total/NA	Solid	5030C	
MB 885-11837/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 11859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-9	BH24-19 0'	Total/NA	Solid	5030C	
885-11326-10	BH24-19 2'	Total/NA	Solid	5030C	
MB 885-11859/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11859/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11859/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11326-9 MS	BH24-19 0'	Total/NA	Solid	5030C	
885-11326-9 MSD	BH24-19 0'	Total/NA	Solid	5030C	
885-11326-10 MS	BH24-19 2'	Total/NA	Solid	5030C	
885-11326-10 MSD	BH24-19 2'	Total/NA	Solid	5030C	

Analysis Batch: 11909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	8015M/D	11837
885-11326-2	BH24-15 1'	Total/NA	Solid	8015M/D	11837
885-11326-3	BH24-16 0'	Total/NA	Solid	8015M/D	11837
885-11326-4	BH24-16 1'	Total/NA	Solid	8015M/D	11837
885-11326-5	BH24-17 0'	Total/NA	Solid	8015M/D	11837
885-11326-6	BH24-17 1'	Total/NA	Solid	8015M/D	11837
885-11326-7	BH24-18 0'	Total/NA	Solid	8015M/D	11837
885-11326-8	BH24-18 2'	Total/NA	Solid	8015M/D	11837
885-11326-9	BH24-19 0'	Total/NA	Solid	8015M/D	11859
885-11326-10	BH24-19 2'	Total/NA	Solid	8015M/D	11859
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8015M/D	11837
MB 885-11859/1-A	Method Blank	Total/NA	Solid	8015M/D	11859
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11837
LCS 885-11859/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11859
885-11326-9 MS	BH24-19 0'	Total/NA	Solid	8015M/D	11859
885-11326-9 MSD	BH24-19 0'	Total/NA	Solid	8015M/D	11859

Analysis Batch: 11910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	8021B	11837
885-11326-2	BH24-15 1'	Total/NA	Solid	8021B	11837
885-11326-3	BH24-16 0'	Total/NA	Solid	8021B	11837
885-11326-4	BH24-16 1'	Total/NA	Solid	8021B	11837
885-11326-5	BH24-17 0'	Total/NA	Solid	8021B	11837
885-11326-6	BH24-17 1'	Total/NA	Solid	8021B	11837

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

GC VOA (Continued)

Analysis Batch: 11910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-7	BH24-18 0'	Total/NA	Solid	8021B	11837
885-11326-8	BH24-18 2'	Total/NA	Solid	8021B	11837
885-11326-9	BH24-19 0'	Total/NA	Solid	8021B	11859
885-11326-10	BH24-19 2'	Total/NA	Solid	8021B	11859
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8021B	11837
MB 885-11859/1-A	Method Blank	Total/NA	Solid	8021B	11859
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	8021B	11837
LCS 885-11859/3-A	Lab Control Sample	Total/NA	Solid	8021B	11859
885-11326-10 MS	BH24-19 2'	Total/NA	Solid	8021B	11859
885-11326-10 MSD	BH24-19 2'	Total/NA	Solid	8021B	11859

GC Semi VOA

Prep Batch: 11939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	SHAKE	
885-11326-2	BH24-15 1'	Total/NA	Solid	SHAKE	
885-11326-3	BH24-16 0'	Total/NA	Solid	SHAKE	
885-11326-4	BH24-16 1'	Total/NA	Solid	SHAKE	
885-11326-5	BH24-17 0'	Total/NA	Solid	SHAKE	
885-11326-6	BH24-17 1'	Total/NA	Solid	SHAKE	
885-11326-7	BH24-18 0'	Total/NA	Solid	SHAKE	
885-11326-8	BH24-18 2'	Total/NA	Solid	SHAKE	

Prep Batch: 12005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-9	BH24-19 0'	Total/NA	Solid	SHAKE	

Prep Batch: 12008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-10	BH24-19 2'	Total/NA	Solid	SHAKE	
MB 885-12008/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12008/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-10	BH24-19 2'	Total/NA	Solid	8015M/D	12008
MB 885-12008/1-A	Method Blank	Total/NA	Solid	8015M/D	12008
LCS 885-12008/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12008

Analysis Batch: 12103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	8015M/D	11939
885-11326-2	BH24-15 1'	Total/NA	Solid	8015M/D	11939
885-11326-3	BH24-16 0'	Total/NA	Solid	8015M/D	11939
885-11326-4	BH24-16 1'	Total/NA	Solid	8015M/D	11939
885-11326-5	BH24-17 0'	Total/NA	Solid	8015M/D	11939
885-11326-6	BH24-17 1'	Total/NA	Solid	8015M/D	11939
885-11326-7	BH24-18 0'	Total/NA	Solid	8015M/D	11939
885-11326-8	BH24-18 2'	Total/NA	Solid	8015M/D	11939
885-11326-9	BH24-19 0'	Total/NA	Solid	8015M/D	12005

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

HPLC/IC

Prep Batch: 12006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	300_Prep	
885-11326-2	BH24-15 1'	Total/NA	Solid	300_Prep	
885-11326-3	BH24-16 0'	Total/NA	Solid	300_Prep	
885-11326-4	BH24-16 1'	Total/NA	Solid	300_Prep	
885-11326-5	BH24-17 0'	Total/NA	Solid	300_Prep	
885-11326-6	BH24-17 1'	Total/NA	Solid	300_Prep	
885-11326-7	BH24-18 0'	Total/NA	Solid	300_Prep	
885-11326-8	BH24-18 2'	Total/NA	Solid	300_Prep	
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 12047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-9	BH24-19 0'	Total/NA	Solid	300_Prep	
885-11326-10	BH24-19 2'	Total/NA	Solid	300_Prep	
MB 885-12047/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12047/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11326-9 MS	BH24-19 0'	Total/NA	Solid	300_Prep	
885-11326-9 MSD	BH24-19 0'	Total/NA	Solid	300_Prep	

Analysis Batch: 12093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-1	BH24-15 0'	Total/NA	Solid	300.0	12006
885-11326-2	BH24-15 1'	Total/NA	Solid	300.0	12006
885-11326-3	BH24-16 0'	Total/NA	Solid	300.0	12006
885-11326-4	BH24-16 1'	Total/NA	Solid	300.0	12006
885-11326-5	BH24-17 0'	Total/NA	Solid	300.0	12006
885-11326-6	BH24-17 1'	Total/NA	Solid	300.0	12006
885-11326-9	BH24-19 0'	Total/NA	Solid	300.0	12047
885-11326-10	BH24-19 2'	Total/NA	Solid	300.0	12047
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300.0	12006
MB 885-12047/1-A	Method Blank	Total/NA	Solid	300.0	12047
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300.0	12006
LCS 885-12047/2-A	Lab Control Sample	Total/NA	Solid	300.0	12047
885-11326-9 MS	BH24-19 0'	Total/NA	Solid	300.0	12047
885-11326-9 MSD	BH24-19 0'	Total/NA	Solid	300.0	12047

Analysis Batch: 12166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11326-7	BH24-18 0'	Total/NA	Solid	300.0	12006
885-11326-8	BH24-18 2'	Total/NA	Solid	300.0	12006

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-15 0'

Lab Sample ID: 885-11326-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 18:47
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 18:47
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 23:58
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 17:14

Client Sample ID: BH24-15 1'

Lab Sample ID: 885-11326-2

Date Collected: 08/29/24 09:30

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 19:11
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 19:11
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 00:09
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 17:27

Client Sample ID: BH24-16 0'

Lab Sample ID: 885-11326-3

Date Collected: 08/29/24 10:00

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 19:34
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 19:34
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 00:20
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 18:05

Client Sample ID: BH24-16 1'

Lab Sample ID: 885-11326-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 19:57

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-16 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 19:57
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 00:30
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 18:18

Client Sample ID: BH24-17 0'
Date Collected: 08/29/24 11:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 20:21
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 20:21
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 00:41
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 18:31

Client Sample ID: BH24-17 1'
Date Collected: 08/29/24 11:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 20:44
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 20:44
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 00:52
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 18:44

Client Sample ID: BH24-18 0'
Date Collected: 08/29/24 12:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 21:08
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 21:08

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-18 0'
Date Collected: 08/29/24 12:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 01:03
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		100	12166	EH	EET ALB	09/12/24 08:01

Client Sample ID: BH24-18 2'
Date Collected: 08/29/24 12:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 21:54
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 21:54
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/14/24 01:14
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		50	12166	EH	EET ALB	09/12/24 08:14

Client Sample ID: BH24-19 0'
Date Collected: 08/29/24 13:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11859	JP	EET ALB	09/09/24 12:39
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 23:52
Total/NA	Prep	5030C			11859	JP	EET ALB	09/09/24 12:39
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 23:52
Total/NA	Prep	SHAKE			12005	EM	EET ALB	09/11/24 10:42
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 20:31
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 20:40

Client Sample ID: BH24-19 2'
Date Collected: 08/29/24 13:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11859	JP	EET ALB	09/09/24 12:39
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/11/24 01:02
Total/NA	Prep	5030C			11859	JP	EET ALB	09/09/24 12:39
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/11/24 01:02
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12013	KR	EET ALB	09/12/24 05:57

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Client Sample ID: BH24-19 2'
Date Collected: 08/29/24 13:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11326-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 19:48

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
- 11

Accreditation/Certification Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11326-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

1
2
3
4
5
6
7
8
9
10
11

Chain-of-Custody Record

Client: Vertex (bill to EOG)

Mailing Address 3101 Boyd Dr.,

Carlsbad, NM, 88220

Phone #: 575 725-5001

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Days

Project Name:

Hawk 35 Feb CTB

Project #:

24E-03931

Project Manager:

Chance Dixon

Cdixon@vertexresource.com

Sampler: K. Taylor

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CP): 3.0+0.4 = 4.0°C

Date Time Matrix Sample Name

8.29.24 9:00 Soil BH24-15 0'

8.29.24 9:30 Soil BH24-15 1'

8.29.24 10:00 Soil BH24-16 0'

8.29.24 10:30 Soil BH24-16 1'

8.29.24 11:00 Soil BH24-17 0'

8.29.24 11:30 Soil BH24-17 1'

8.29.24 12:00 Soil BH24-18 0'

8.29.24 12:30 Soil BH24-18 2'

8.29.24 13:00 Soil BH24-19 0'

8.29.24 13:30 Soil BH24-19 2'

Date: 9/16/24 Time: 9:00

Relinquished by: *Chance Dixon*

Date: 9/16/24 Time: 9:00

Relinquished by: *Chance Dixon*

Received by: *Chance Dixon*

Date: 9/16/24 Time: 9:00

Received by: *Chance Dixon*

Date: 9/16/24 Time: 9:00

Remarks:

Direct Bill to EOG Resources.

ATTN: Chase Settle (chase_settle@eogresources.com)

CC: Chance Dixon (Cdixon@vertexresource.com) for Final Report.

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



HALL ENVIRONMENTAL ANALYSIS LAB

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87185-11326 COC

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

8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cl, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

BTEX

TPH

MTBE / TMB's (8021)

HEAL No.

Preservative Type

Container Type and #

4oz Jar

ICE

1

2

3

4

5

6

7

8

9

10

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-11326-1

Login Number: 11326

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/19/2024 3:14:27 PM

JOB DESCRIPTION

Hawk 35 Feb CTB

JOB NUMBER

885-11325-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Client: Vertex
Project/Site: Hawk 35 Feb CTB

Laboratory Job ID: 885-11325-1



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	14
QC Association Summary	16
Lab Chronicle	18
Certification Summary	21
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Hawk 35 Feb CTB

Job ID: 885-11325-1

Job ID: 885-11325-1

Eurofins Albuquerque

Job Narrative 885-11325-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/7/2024 7:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample date on COC indicates 8/29/24, while the label indicates 9/4. Client was contacted and instructed to go with COC.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: Surrogate recovery for the following sample was outside the upper control limit: BH24-23 0' (885-11325-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-20 0'

Lab Sample ID: 885-11325-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/07/24 07:49

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/09/24 10:20	09/10/24 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			09/09/24 10:20	09/10/24 14:53	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 14:53	1
Ethylbenzene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 14:53	1
Toluene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 14:53	1
Xylenes, Total	ND		0.093	mg/Kg		09/09/24 10:20	09/10/24 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 10:20	09/10/24 14:53	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/10/24 11:15	09/13/24 22:21	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/10/24 11:15	09/13/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/10/24 11:15	09/13/24 22:21	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66		60	mg/Kg		09/11/24 10:54	09/11/24 14:39	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-20 1/2'
Date Collected: 08/29/24 09:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/09/24 10:20	09/10/24 15:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/09/24 10:20	09/10/24 15:16		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 15:16		1
Ethylbenzene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 15:16		1
Toluene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 15:16		1
Xylenes, Total	ND		0.093	mg/Kg		09/09/24 10:20	09/10/24 15:16		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 10:20	09/10/24 15:16		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/10/24 11:15	09/13/24 22:32		1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/10/24 11:15	09/13/24 22:32		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			09/10/24 11:15	09/13/24 22:32		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	99		60	mg/Kg		09/11/24 10:54	09/11/24 14:52		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-21 0'
Date Collected: 08/29/24 10:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-3
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 15:40		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		35 - 166			09/09/24 10:20	09/10/24 15:40		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 15:40		1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 15:40		1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 15:40		1
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 10:20	09/10/24 15:40		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			09/09/24 10:20	09/10/24 15:40		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		09/10/24 11:15	09/13/24 22:42		1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/10/24 11:15	09/13/24 22:42		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			09/10/24 11:15	09/13/24 22:42		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	60		60	mg/Kg		09/11/24 10:54	09/11/24 15:31		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-21 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		09/09/24 10:20	09/10/24 16:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/09/24 10:20	09/10/24 16:26	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 16:26	1	
Ethylbenzene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 16:26	1	
Toluene	ND		0.046	mg/Kg		09/09/24 10:20	09/10/24 16:26	1	
Xylenes, Total	ND		0.092	mg/Kg		09/09/24 10:20	09/10/24 16:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		48 - 145			09/09/24 10:20	09/10/24 16:26	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/10/24 11:15	09/13/24 22:53	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 22:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			09/10/24 11:15	09/13/24 22:53	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	70		60	mg/Kg		09/11/24 10:54	09/11/24 15:44	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-22 0'
Date Collected: 08/29/24 11:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 16:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			09/09/24 10:20	09/10/24 16:50	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 16:50	1	
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 16:50	1	
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 16:50	1	
Xylenes, Total	ND		0.095	mg/Kg		09/09/24 10:20	09/10/24 16:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			09/09/24 10:20	09/10/24 16:50	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.5	mg/Kg		09/10/24 11:15	09/13/24 23:04	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/10/24 11:15	09/13/24 23:04	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	103		62 - 134			09/10/24 11:15	09/13/24 23:04	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2200		60	mg/Kg		09/11/24 10:54	09/11/24 15:56	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-22 1'
Date Collected: 08/29/24 11:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-6
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 17:13		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/09/24 10:20	09/10/24 17:13		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 17:13		1
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 17:13		1
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 17:13		1
Xylenes, Total	ND		0.097	mg/Kg		09/09/24 10:20	09/10/24 17:13		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		48 - 145			09/09/24 10:20	09/10/24 17:13		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/10/24 11:15	09/13/24 23:15		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/10/24 11:15	09/13/24 23:15		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	102		62 - 134			09/10/24 11:15	09/13/24 23:15		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	800		60	mg/Kg		09/11/24 10:54	09/11/24 16:09		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-23 0'
Date Collected: 08/29/24 12:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-7
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 18:00		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/09/24 10:20	09/10/24 18:00		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 18:00		1
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 18:00		1
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 18:00		1
Xylenes, Total	ND		0.097	mg/Kg		09/09/24 10:20	09/10/24 18:00		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 10:20	09/10/24 18:00		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/10/24 11:15	09/13/24 23:36		1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 23:36		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	139	S1+	62 - 134			09/10/24 11:15	09/13/24 23:36		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1900		60	mg/Kg		09/11/24 10:54	09/11/24 16:22		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-23 1'
Date Collected: 08/29/24 12:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 18:24		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		35 - 166			09/09/24 10:20	09/10/24 18:24		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 18:24		1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 18:24		1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 18:24		1
Xylenes, Total	ND		0.099	mg/Kg		09/09/24 10:20	09/10/24 18:24		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		48 - 145			09/09/24 10:20	09/10/24 18:24		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/10/24 11:15	09/13/24 23:47		1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 23:47		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	105		62 - 134			09/10/24 11:15	09/13/24 23:47		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2100		60	mg/Kg		09/11/24 10:54	09/11/24 17:01		20

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 10:20	09/10/24 11:22	1

Lab Sample ID: LCS 885-11837/2-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics [C6 - C10]	25.0	24.8		mg/Kg		99	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	200		35 - 166					

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 11:22	1

Lab Sample ID: LCS 885-11837/3-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	1.00	0.926		mg/Kg		93	70 - 130	
Ethylbenzene	1.00	0.856		mg/Kg		86	70 - 130	
Toluene	1.00	0.868		mg/Kg		87	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	90		48 - 145					

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12006/1-A						Client Sample ID: Method Blank					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 12093						Prep Batch: 12006					
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	ND		3.0	mg/Kg		09/11/24 10:54	09/11/24 12:56	1			
Lab Sample ID: LCS 885-12006/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 12093						Prep Batch: 12006					
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	31.9		mg/Kg		106	90 - 110		
Lab Sample ID: 885-11325-7 MS						Client Sample ID: BH24-23 0'					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 12093						Prep Batch: 12006					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1900		30.2	1810	4	mg/Kg		-317	50 - 150		
Lab Sample ID: 885-11325-7 MSD						Client Sample ID: BH24-23 0'					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 12093						Prep Batch: 12006					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
Chloride	1900		29.9	1920	4	mg/Kg		31	50 - 150	6	

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

GC VOA

Prep Batch: 11837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	5030C	
885-11325-2	BH24-20 1/2'	Total/NA	Solid	5030C	
885-11325-3	BH24-21 0'	Total/NA	Solid	5030C	
885-11325-4	BH24-21 1'	Total/NA	Solid	5030C	
885-11325-5	BH24-22 0'	Total/NA	Solid	5030C	
885-11325-6	BH24-22 1'	Total/NA	Solid	5030C	
885-11325-7	BH24-23 0'	Total/NA	Solid	5030C	
885-11325-8	BH24-23 1'	Total/NA	Solid	5030C	
MB 885-11837/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 11909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	8015M/D	11837
885-11325-2	BH24-20 1/2'	Total/NA	Solid	8015M/D	11837
885-11325-3	BH24-21 0'	Total/NA	Solid	8015M/D	11837
885-11325-4	BH24-21 1'	Total/NA	Solid	8015M/D	11837
885-11325-5	BH24-22 0'	Total/NA	Solid	8015M/D	11837
885-11325-6	BH24-22 1'	Total/NA	Solid	8015M/D	11837
885-11325-7	BH24-23 0'	Total/NA	Solid	8015M/D	11837
885-11325-8	BH24-23 1'	Total/NA	Solid	8015M/D	11837
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8015M/D	11837
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11837

Analysis Batch: 11910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	8021B	11837
885-11325-2	BH24-20 1/2'	Total/NA	Solid	8021B	11837
885-11325-3	BH24-21 0'	Total/NA	Solid	8021B	11837
885-11325-4	BH24-21 1'	Total/NA	Solid	8021B	11837
885-11325-5	BH24-22 0'	Total/NA	Solid	8021B	11837
885-11325-6	BH24-22 1'	Total/NA	Solid	8021B	11837
885-11325-7	BH24-23 0'	Total/NA	Solid	8021B	11837
885-11325-8	BH24-23 1'	Total/NA	Solid	8021B	11837
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8021B	11837
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	8021B	11837

GC Semi VOA

Prep Batch: 11939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	SHAKE	
885-11325-2	BH24-20 1/2'	Total/NA	Solid	SHAKE	
885-11325-3	BH24-21 0'	Total/NA	Solid	SHAKE	
885-11325-4	BH24-21 1'	Total/NA	Solid	SHAKE	
885-11325-5	BH24-22 0'	Total/NA	Solid	SHAKE	
885-11325-6	BH24-22 1'	Total/NA	Solid	SHAKE	
885-11325-7	BH24-23 0'	Total/NA	Solid	SHAKE	
885-11325-8	BH24-23 1'	Total/NA	Solid	SHAKE	

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

GC Semi VOA

Analysis Batch: 12103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	8015M/D	11939
885-11325-2	BH24-20 1/2'	Total/NA	Solid	8015M/D	11939
885-11325-3	BH24-21 0'	Total/NA	Solid	8015M/D	11939
885-11325-4	BH24-21 1'	Total/NA	Solid	8015M/D	11939
885-11325-5	BH24-22 0'	Total/NA	Solid	8015M/D	11939
885-11325-6	BH24-22 1'	Total/NA	Solid	8015M/D	11939
885-11325-7	BH24-23 0'	Total/NA	Solid	8015M/D	11939
885-11325-8	BH24-23 1'	Total/NA	Solid	8015M/D	11939

HPLC/IC

Prep Batch: 12006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	300_Prep	
885-11325-2	BH24-20 1/2'	Total/NA	Solid	300_Prep	
885-11325-3	BH24-21 0'	Total/NA	Solid	300_Prep	
885-11325-4	BH24-21 1'	Total/NA	Solid	300_Prep	
885-11325-5	BH24-22 0'	Total/NA	Solid	300_Prep	
885-11325-6	BH24-22 1'	Total/NA	Solid	300_Prep	
885-11325-7	BH24-23 0'	Total/NA	Solid	300_Prep	
885-11325-8	BH24-23 1'	Total/NA	Solid	300_Prep	
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11325-7 MS	BH24-23 0'	Total/NA	Solid	300_Prep	
885-11325-7 MSD	BH24-23 0'	Total/NA	Solid	300_Prep	

Analysis Batch: 12093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11325-1	BH24-20 0'	Total/NA	Solid	300.0	12006
885-11325-2	BH24-20 1/2'	Total/NA	Solid	300.0	12006
885-11325-3	BH24-21 0'	Total/NA	Solid	300.0	12006
885-11325-4	BH24-21 1'	Total/NA	Solid	300.0	12006
885-11325-5	BH24-22 0'	Total/NA	Solid	300.0	12006
885-11325-6	BH24-22 1'	Total/NA	Solid	300.0	12006
885-11325-7	BH24-23 0'	Total/NA	Solid	300.0	12006
885-11325-8	BH24-23 1'	Total/NA	Solid	300.0	12006
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300.0	12006
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300.0	12006
885-11325-7 MS	BH24-23 0'	Total/NA	Solid	300.0	12006
885-11325-7 MSD	BH24-23 0'	Total/NA	Solid	300.0	12006

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-20 0'
Date Collected: 08/29/24 09:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 14:53
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 14:53
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 22:21
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 14:39

Client Sample ID: BH24-20 1/2'
Date Collected: 08/29/24 09:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 15:16
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 15:16
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 22:32
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 14:52

Client Sample ID: BH24-21 0'
Date Collected: 08/29/24 10:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 15:40
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 15:40
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 22:42
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 15:31

Client Sample ID: BH24-21 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 16:26

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-21 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 16:26
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 22:53
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 15:44

Client Sample ID: BH24-22 0'
Date Collected: 08/29/24 11:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 16:50
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 16:50
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 23:04
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 15:56

Client Sample ID: BH24-22 1'
Date Collected: 08/29/24 11:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 17:13
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 17:13
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 23:15
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 16:09

Client Sample ID: BH24-23 0'
Date Collected: 08/29/24 12:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 18:00
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 18:00

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Client Sample ID: BH24-23 0'
Date Collected: 08/29/24 12:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 23:36
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 16:22

Client Sample ID: BH24-23 1'
Date Collected: 08/29/24 12:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11325-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 18:24
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 18:24
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 23:47
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 17:01

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11325-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

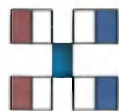
Chain-of-Custody Record

Chain-of-Custody Record		Turn-Around Time:	
Client: Vertex (bill to EOG)		<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush 5 Day
Mailing Address	3101 Boyd Dr.	Project Name:	
	Carlsbad, NM. 88220	Hawk 35 Feb CTB	
Phone #: 575 725-5001		Project #:	
email or Fax#:		24E-03931	
QA/QC Package:		Project Manager:	
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	Chance Dixon	
Accreditation:	<input type="checkbox"/> Az Compliance	Cdixon@vertexresource.com	
<input type="checkbox"/> NELAC	<input type="checkbox"/> Other	Sampler: K. Taylor	
<input type="checkbox"/> EDD (Type)		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		# of Coolers: 1	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8.29.24	9:00	Soil	BH24-20 0'	4oz Jar	ICE	1
8.29.24	9:30	Soil	BH24-20 1/2'	4oz Jar	ICE	2
8.29.24	10:00	Soil	BH24-21 0'	4oz Jar	ICE	3
8.29.24	10:30	Soil	BH24-21 1'	4oz Jar	ICE	4
8.29.24	11:00	Soil	BH24-22 0'	4oz Jar	ICE	5
8.29.24	11:30	Soil	BH24-22 1'	4oz Jar	ICE	6
8.29.24	12:00	Soil	BH24-23 0'	4oz Jar	ICE	7
8.29.24	12:30	Soil	BH24-23 1'	4oz Jar	ICE	8
8.29.24	12:00	Soil	BH24-24 0'	4oz Jar	ICE	
8.29.24	10:30	Soil	BH24-24 1'	4oz Jar	ICE	

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
9/16/94	9:00	Katrina Taylor	<i>[Signature]</i>		9/16/94	900
Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
9/16/94	19:00	<i>[Signature]</i>	<i>[Signature]</i>		9/17/94	7:49

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-11325 COC

[illegible]

Remarks:

Direct Bill to EOG Resources,

ATTN: Chase Settle (chase_settle@eogresources.com)

CC: Chance Dixon Cdxon@vertexresource.com) for Final Report.

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- 2
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- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-11325-1

Login Number: 11325

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

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- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex
3101 Boyd Dr
Carlsbad, New Mexico 88220

Generated 9/19/2024 3:13:45 PM

JOB DESCRIPTION

Hawk 35 Feb CTB

JOB NUMBER

885-11323-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)345-3975

Generated
9/19/2024 3:13:45 PM

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Laboratory Job ID: 885-11323-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	17
Chain of Custody	18
Receipt Checklists	19



Definitions/Glossary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Hawk 35 Feb CTB

Job ID: 885-11323-1

Job ID: 885-11323-1Eurofins Albuquerque

Job Narrative
885-11323-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/7/2024 7:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample date on COC indicates 8/29/24, while the label indicates 9/5. Client was contacted and instructed to go with COC.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-24 0'
Date Collected: 08/29/24 09:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11323-1
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 11:46		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		35 - 166			09/09/24 10:20	09/10/24 11:46		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 11:46		1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:46		1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:46		1
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 10:20	09/10/24 11:46		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		48 - 145			09/09/24 10:20	09/10/24 11:46		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/10/24 11:15	09/13/24 21:37		1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 21:37		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	100		62 - 134			09/10/24 11:15	09/13/24 21:37		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/11/24 10:54	09/11/24 13:22		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-24 1'
Date Collected: 08/29/24 09:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11323-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/09/24 10:20	09/10/24 12:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		35 - 166			09/09/24 10:20	09/10/24 12:56		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 12:56		1
Ethylbenzene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 12:56		1
Toluene	ND		0.049	mg/Kg		09/09/24 10:20	09/10/24 12:56		1
Xylenes, Total	ND		0.098	mg/Kg		09/09/24 10:20	09/10/24 12:56		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 12:56		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/10/24 11:15	09/13/24 21:48		1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/10/24 11:15	09/13/24 21:48		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	98		62 - 134			09/10/24 11:15	09/13/24 21:48		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/11/24 10:54	09/11/24 14:01		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-28 0'
Date Collected: 08/29/24 10:00
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11323-3
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/09/24 10:20	09/10/24 14:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		35 - 166			09/09/24 10:20	09/10/24 14:06	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/09/24 10:20	09/10/24 14:06	1	
Ethylbenzene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 14:06	1	
Toluene	ND		0.048	mg/Kg		09/09/24 10:20	09/10/24 14:06	1	
Xylenes, Total	ND		0.096	mg/Kg		09/09/24 10:20	09/10/24 14:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		48 - 145			09/09/24 10:20	09/10/24 14:06	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	13		9.8	mg/Kg		09/10/24 11:15	09/13/24 21:59	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 21:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	128		62 - 134			09/10/24 11:15	09/13/24 21:59	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/11/24 10:54	09/11/24 14:14	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-28 1'

Lab Sample ID: 885-11323-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/07/24 07:49

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/09/24 10:20	09/10/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			09/09/24 10:20	09/10/24 14:29	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/09/24 10:20	09/10/24 14:29	1
Ethylbenzene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 14:29	1
Toluene	ND		0.047	mg/Kg		09/09/24 10:20	09/10/24 14:29	1
Xylenes, Total	ND		0.093	mg/Kg		09/09/24 10:20	09/10/24 14:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 14:29	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/10/24 11:15	09/13/24 22:10	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/10/24 11:15	09/13/24 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			09/10/24 11:15	09/13/24 22:10	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		60	mg/Kg		09/11/24 10:54	09/11/24 14:26	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-11323-1

Project/Site: Hawk 35 Feb CTB

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			09/09/24 10:20	09/10/24 11:22	1

Lab Sample ID: LCS 885-11837/2-A

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.8		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	200		35 - 166				

Lab Sample ID: 885-11323-1 MS

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: BH24-24 0'

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.9	23.5		mg/Kg		94	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	203		35 - 166						

Lab Sample ID: 885-11323-1 MSD

Matrix: Solid

Analysis Batch: 11909

Client Sample ID: BH24-24 0'

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.9	23.8		mg/Kg		96	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	201		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Ethylbenzene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Toluene	ND		0.050	mg/Kg		09/09/24 10:20	09/10/24 11:22	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex

Job ID: 885-11323-1

Project/Site: Hawk 35 Feb CTB

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-11837/1-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11837

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10	mg/Kg		09/09/24 10:20	09/10/24 11:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		48 - 145			09/09/24 10:20	09/10/24 11:22	1

Lab Sample ID: LCS 885-11837/3-A

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.926		mg/Kg		93	70 - 130
Ethylbenzene	1.00	0.856		mg/Kg		86	70 - 130
Toluene	1.00	0.868		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		48 - 145				

Lab Sample ID: 885-11323-2 MS

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: BH24-24 1'

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.988	0.972		mg/Kg		98	70 - 130
Ethylbenzene	ND		0.988	0.902		mg/Kg		91	70 - 130
Toluene	ND		0.988	0.918		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		48 - 145						

Lab Sample ID: 885-11323-2 MSD

Matrix: Solid

Analysis Batch: 11910

Client Sample ID: BH24-24 1'

Prep Type: Total/NA

Prep Batch: 11837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.986	0.931		mg/Kg		94	70 - 130	4	20
Ethylbenzene	ND		0.986	0.878		mg/Kg		89	70 - 130	3	20
Toluene	ND		0.986	0.891		mg/Kg		90	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	90		48 - 145								

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12006/1-A						Client Sample ID: Method Blank				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 12093						Prep Batch: 12006				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	ND		3.0	mg/Kg		09/11/24 10:54	09/11/24 12:56	1		
Lab Sample ID: LCS 885-12006/2-A						Client Sample ID: Lab Control Sample				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 12093						Prep Batch: 12006				
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride			30.0	31.9		mg/Kg		106	90 - 110	
Lab Sample ID: 885-11323-1 MS						Client Sample ID: BH24-24 0'				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 12093						Prep Batch: 12006				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150	
Lab Sample ID: 885-11323-1 MSD						Client Sample ID: BH24-24 0'				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 12093						Prep Batch: 12006				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC 20

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

GC VOA

Prep Batch: 11837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	5030C	
885-11323-2	BH24-24 1'	Total/NA	Solid	5030C	
885-11323-3	BH24-28 0'	Total/NA	Solid	5030C	
885-11323-4	BH24-28 1'	Total/NA	Solid	5030C	
MB 885-11837/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11323-1 MS	BH24-24 0'	Total/NA	Solid	5030C	
885-11323-1 MSD	BH24-24 0'	Total/NA	Solid	5030C	
885-11323-2 MS	BH24-24 1'	Total/NA	Solid	5030C	
885-11323-2 MSD	BH24-24 1'	Total/NA	Solid	5030C	

Analysis Batch: 11909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	8015M/D	11837
885-11323-2	BH24-24 1'	Total/NA	Solid	8015M/D	11837
885-11323-3	BH24-28 0'	Total/NA	Solid	8015M/D	11837
885-11323-4	BH24-28 1'	Total/NA	Solid	8015M/D	11837
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8015M/D	11837
LCS 885-11837/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11837
885-11323-1 MS	BH24-24 0'	Total/NA	Solid	8015M/D	11837
885-11323-1 MSD	BH24-24 0'	Total/NA	Solid	8015M/D	11837

Analysis Batch: 11910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	8021B	11837
885-11323-2	BH24-24 1'	Total/NA	Solid	8021B	11837
885-11323-3	BH24-28 0'	Total/NA	Solid	8021B	11837
885-11323-4	BH24-28 1'	Total/NA	Solid	8021B	11837
MB 885-11837/1-A	Method Blank	Total/NA	Solid	8021B	11837
LCS 885-11837/3-A	Lab Control Sample	Total/NA	Solid	8021B	11837
885-11323-2 MS	BH24-24 1'	Total/NA	Solid	8021B	11837
885-11323-2 MSD	BH24-24 1'	Total/NA	Solid	8021B	11837

GC Semi VOA

Prep Batch: 11939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	SHAKE	
885-11323-2	BH24-24 1'	Total/NA	Solid	SHAKE	
885-11323-3	BH24-28 0'	Total/NA	Solid	SHAKE	
885-11323-4	BH24-28 1'	Total/NA	Solid	SHAKE	

Analysis Batch: 12103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	8015M/D	11939
885-11323-2	BH24-24 1'	Total/NA	Solid	8015M/D	11939
885-11323-3	BH24-28 0'	Total/NA	Solid	8015M/D	11939
885-11323-4	BH24-28 1'	Total/NA	Solid	8015M/D	11939

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

HPLC/IC

Prep Batch: 12006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	300_Prep	
885-11323-2	BH24-24 1'	Total/NA	Solid	300_Prep	
885-11323-3	BH24-28 0'	Total/NA	Solid	300_Prep	
885-11323-4	BH24-28 1'	Total/NA	Solid	300_Prep	
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11323-1 MS	BH24-24 0'	Total/NA	Solid	300_Prep	
885-11323-1 MSD	BH24-24 0'	Total/NA	Solid	300_Prep	

Analysis Batch: 12093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11323-1	BH24-24 0'	Total/NA	Solid	300.0	12006
885-11323-2	BH24-24 1'	Total/NA	Solid	300.0	12006
885-11323-3	BH24-28 0'	Total/NA	Solid	300.0	12006
885-11323-4	BH24-28 1'	Total/NA	Solid	300.0	12006
MB 885-12006/1-A	Method Blank	Total/NA	Solid	300.0	12006
LCS 885-12006/2-A	Lab Control Sample	Total/NA	Solid	300.0	12006
885-11323-1 MS	BH24-24 0'	Total/NA	Solid	300.0	12006
885-11323-1 MSD	BH24-24 0'	Total/NA	Solid	300.0	12006

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-24 0'

Lab Sample ID: 885-11323-1

Date Collected: 08/29/24 09:00

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 11:46
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 11:46
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 21:37
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 13:22

Client Sample ID: BH24-24 1'

Lab Sample ID: 885-11323-2

Date Collected: 08/29/24 09:30

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 12:56
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 12:56
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 21:48
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 14:01

Client Sample ID: BH24-28 0'

Lab Sample ID: 885-11323-3

Date Collected: 08/29/24 10:00

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 14:06
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 14:06
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 21:59
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 14:14

Client Sample ID: BH24-28 1'

Lab Sample ID: 885-11323-4

Date Collected: 08/29/24 10:30

Matrix: Solid

Date Received: 09/07/24 07:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8015M/D		1	11909	JP	EET ALB	09/10/24 14:29

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Client Sample ID: BH24-28 1'
Date Collected: 08/29/24 10:30
Date Received: 09/07/24 07:49

Lab Sample ID: 885-11323-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11837	JP	EET ALB	09/09/24 10:20
Total/NA	Analysis	8021B		1	11910	JP	EET ALB	09/10/24 14:29
Total/NA	Prep	SHAKE			11939	EM	EET ALB	09/10/24 11:15
Total/NA	Analysis	8015M/D		1	12103	EM	EET ALB	09/13/24 22:10
Total/NA	Prep	300_Prep			12006	EH	EET ALB	09/11/24 10:54
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 14:26

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-11323-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-11323-1

Login Number: 11323

List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing

- 1
- 2
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- 11

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon
Vertex

3101 Boyd Dr

Carlsbad, New Mexico 88220

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JOB DESCRIPTION

Hawk 35 Feb CTB

JOB NUMBER

885-12211-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Authorized for release by
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Revision 1

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Laboratory Job ID: 885-12211-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	27
QC Association Summary	32
Lab Chronicle	37
Certification Summary	44
Chain of Custody	45
Receipt Checklists	47



Definitions/Glossary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Vertex
Project: Hawk 35 Feb CTB

Job ID: 885-12211-1

Job ID: 885-12211-1

Eurofins Albuquerque

**Job Narrative
885-12211-1**

REVISION

The report being provided is a revision of the original report sent on 10/4/2024. The report (revision 1) is being revised due to Sample Changed from BH24-06 2' to BH24-06 2.5'.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/20/2024 7:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-03 3'

Lab Sample ID: 885-12211-1

Date Collected: 09/17/24 09:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/23/24 16:02	09/25/24 19:13	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			09/23/24 16:02	09/25/24 19:13	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 19:13	1	
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 16:02	09/25/24 19:13	1	
Toluene	ND		0.047	mg/Kg		09/23/24 16:02	09/25/24 19:13	1	
Xylenes, Total	ND		0.095	mg/Kg		09/23/24 16:02	09/25/24 19:13	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 16:02	09/25/24 19:13	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/24 09:27	09/30/24 15:44	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/30/24 15:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	122		62 - 134			09/24/24 09:27	09/30/24 15:44	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6600		300	mg/Kg		09/24/24 19:25	09/26/24 14:05	100	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-03 6.5'

Lab Sample ID: 885-12211-2

Date Collected: 09/17/24 10:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 16:02	09/25/24 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 19:36	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 19:36	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 19:36	1
Toluene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 19:36	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 16:02	09/25/24 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/23/24 16:02	09/25/24 19:36	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		09/24/24 09:27	09/26/24 14:16	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 09:27	09/26/24 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			09/24/24 09:27	09/26/24 14:16	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		60	mg/Kg		09/24/24 19:25	09/25/24 13:15	20

Eurofins Albuquerque

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-10 2' Lab Sample ID: 885-12211-3
Date Collected: 09/17/24 10:30 Matrix: Solid
Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 16:02	09/25/24 20:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 20:00	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 20:00	1	
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 20:00	1	
Toluene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 20:00	1	
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 16:02	09/25/24 20:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		48 - 145			09/23/24 16:02	09/25/24 20:00	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/24 09:27	09/26/24 14:29	1	
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/24/24 09:27	09/26/24 14:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	97		62 - 134			09/24/24 09:27	09/26/24 14:29	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	94		61	mg/Kg		09/24/24 19:25	09/25/24 13:28	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-16 2'

Lab Sample ID: 885-12211-4

Date Collected: 09/17/24 11:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 20:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 16:02	09/25/24 20:47	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 20:47	1	
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 20:47	1	
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 20:47	1	
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 16:02	09/25/24 20:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		48 - 145			09/23/24 16:02	09/25/24 20:47	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/24/24 09:27	09/26/24 14:41	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/24/24 09:27	09/26/24 14:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	94		62 - 134			09/24/24 09:27	09/26/24 14:41	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	690		60	mg/Kg		09/24/24 19:25	09/25/24 13:40	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-16 3'

Lab Sample ID: 885-12211-5

Date Collected: 09/17/24 11:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 21:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 21:10	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 21:10	1
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 21:10	1
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 16:02	09/25/24 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/25/24 21:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		09/24/24 09:27	09/26/24 14:54	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		09/24/24 09:27	09/26/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			09/24/24 09:27	09/26/24 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81		60	mg/Kg		09/24/24 19:25	09/25/24 13:53	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-18 2'

Lab Sample ID: 885-12211-6

Date Collected: 09/17/24 12:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/23/24 16:02	09/25/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/23/24 16:02	09/25/24 21:34	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/25/24 21:34	1
Ethylbenzene	ND		0.050	mg/Kg		09/23/24 16:02	09/25/24 21:34	1
Toluene	ND		0.050	mg/Kg		09/23/24 16:02	09/25/24 21:34	1
Xylenes, Total	ND		0.10	mg/Kg		09/23/24 16:02	09/25/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		48 - 145			09/23/24 16:02	09/25/24 21:34	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/24/24 09:27	09/26/24 15:06	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/24/24 09:27	09/26/24 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			09/24/24 09:27	09/26/24 15:06	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	770		60	mg/Kg		09/24/24 19:25	09/25/24 14:06	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-18 3' Lab Sample ID: 885-12211-7
Date Collected: 09/17/24 12:30 Matrix: Solid
Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 21:57	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 21:57	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 21:57	1	
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 21:57	1	
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 21:57	1	
Xylenes, Total	ND		0.097	mg/Kg		09/23/24 16:02	09/25/24 21:57	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/25/24 21:57	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/24/24 09:27	09/26/24 15:19	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		09/24/24 09:27	09/26/24 15:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	92		62 - 134			09/24/24 09:27	09/26/24 15:19	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	270		60	mg/Kg		09/24/24 19:25	09/25/24 14:19	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-30 0'

Lab Sample ID: 885-12211-8

Date Collected: 09/17/24 13:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/23/24 16:02	09/25/24 22:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 22:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 22:21	1	
Ethylbenzene	ND		0.047	mg/Kg		09/23/24 16:02	09/25/24 22:21	1	
Toluene	ND		0.047	mg/Kg		09/23/24 16:02	09/25/24 22:21	1	
Xylenes, Total	ND		0.094	mg/Kg		09/23/24 16:02	09/25/24 22:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/25/24 22:21	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	14		9.8	mg/Kg		09/24/24 09:27	09/27/24 13:36	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/27/24 13:36	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	98		62 - 134			09/24/24 09:27	09/27/24 13:36	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	97		60	mg/Kg		09/24/24 19:25	09/25/24 14:58	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-30 2'

Lab Sample ID: 885-12211-9

Date Collected: 09/17/24 14:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/23/24 16:02	09/25/24 22:44	1
Method: SW846 8021B - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/25/24 22:44	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 22:44	1
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 22:44	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 16:02	09/25/24 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/25/24 22:44	1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/24/24 09:27	09/27/24 13:46	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/27/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			09/24/24 09:27	09/27/24 13:46	1
Method: EPA 300.0 - Anions, Ion Chromatography								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		150	mg/Kg		09/24/24 19:25	09/26/24 14:17	50

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-30 3'

Lab Sample ID: 885-12211-10

Date Collected: 09/17/24 14:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		35 - 166			09/23/24 16:02	09/25/24 23:08	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/25/24 23:08	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 23:08	1
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 23:08	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 16:02	09/25/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		48 - 145			09/23/24 16:02	09/25/24 23:08	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/24/24 09:27	09/27/24 13:57	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/24/24 09:27	09/27/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			09/24/24 09:27	09/27/24 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		300	mg/Kg		09/24/24 19:25	09/26/24 14:30	100

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-30 5'

Lab Sample ID: 885-12211-11

Date Collected: 09/17/24 15:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/23/24 16:02	09/25/24 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 16:02	09/25/24 23:31	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/25/24 23:31	1
Ethylbenzene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 23:31	1
Toluene	ND		0.049	mg/Kg		09/23/24 16:02	09/25/24 23:31	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 16:02	09/25/24 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		48 - 145			09/23/24 16:02	09/25/24 23:31	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		09/25/24 08:28	09/25/24 22:01	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		09/25/24 08:28	09/25/24 22:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			09/25/24 08:28	09/25/24 22:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		60	mg/Kg		09/24/24 19:25	09/25/24 15:36	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-06 2.5'

Lab Sample ID: 885-12211-12

Date Collected: 09/18/24 09:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/23/24 16:02	09/25/24 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166	09/23/24 16:02	09/25/24 23:55	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/23/24 16:02	09/25/24 23:55	1
Ethylbenzene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 23:55	1
Toluene	ND		0.048	mg/Kg		09/23/24 16:02	09/25/24 23:55	1
Xylenes, Total	ND		0.096	mg/Kg		09/23/24 16:02	09/25/24 23:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145	09/23/24 16:02	09/25/24 23:55	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/25/24 08:28	09/25/24 22:12	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/25/24 08:28	09/25/24 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134	09/25/24 08:28	09/25/24 22:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		60	mg/Kg		09/24/24 19:25	09/25/24 15:49	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-22 2'

Lab Sample ID: 885-12211-13

Date Collected: 09/18/24 09:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/23/24 16:02	09/26/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 16:02	09/26/24 00:19	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/26/24 00:19	1
Ethylbenzene	ND		0.050	mg/Kg		09/23/24 16:02	09/26/24 00:19	1
Toluene	ND		0.050	mg/Kg		09/23/24 16:02	09/26/24 00:19	1
Xylenes, Total	ND		0.099	mg/Kg		09/23/24 16:02	09/26/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/23/24 16:02	09/26/24 00:19	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		09/25/24 08:28	09/25/24 22:23	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/25/24 08:28	09/25/24 22:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			09/25/24 08:28	09/25/24 22:23	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		60	mg/Kg		09/24/24 19:25	09/25/24 16:02	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-31 0'

Lab Sample ID: 885-12211-14

Date Collected: 09/18/24 10:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/24/24 15:19	09/27/24 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/24/24 15:19	09/27/24 03:27	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/24/24 15:19	09/27/24 03:27	1
Ethylbenzene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 03:27	1
Toluene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 03:27	1
Xylenes, Total	ND		0.099	mg/Kg		09/24/24 15:19	09/27/24 03:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		48 - 145			09/24/24 15:19	09/27/24 03:27	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/25/24 08:28	09/25/24 22:34	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/25/24 08:28	09/25/24 22:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	74		62 - 134			09/25/24 08:28	09/25/24 22:34	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66		60	mg/Kg		09/25/24 16:13	09/26/24 09:26	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-31 2'

Lab Sample ID: 885-12211-15

Date Collected: 09/18/24 10:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/24/24 15:19	09/27/24 04:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		35 - 166			09/24/24 15:19	09/27/24 04:38		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/24/24 15:19	09/27/24 04:38		1
Ethylbenzene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 04:38		1
Toluene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 04:38		1
Xylenes, Total	ND		0.096	mg/Kg		09/24/24 15:19	09/27/24 04:38		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		48 - 145			09/24/24 15:19	09/27/24 04:38		1
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		09/25/24 08:28	09/25/24 22:45		1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/25/24 08:28	09/25/24 22:45		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	101		62 - 134			09/25/24 08:28	09/25/24 22:45		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/25/24 16:13	09/26/24 10:05		20

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-32 0'

Lab Sample ID: 885-12211-16

Date Collected: 09/18/24 11:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/24/24 15:19	09/27/24 05:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		35 - 166			09/24/24 15:19	09/27/24 05:48	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		09/24/24 15:19	09/27/24 05:48	1	
Ethylbenzene	ND		0.050	mg/Kg		09/24/24 15:19	09/27/24 05:48	1	
Toluene	ND		0.050	mg/Kg		09/24/24 15:19	09/27/24 05:48	1	
Xylenes, Total	ND		0.10	mg/Kg		09/24/24 15:19	09/27/24 05:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		48 - 145			09/24/24 15:19	09/27/24 05:48	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/25/24 08:28	09/25/24 22:56	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/25/24 08:28	09/25/24 22:56	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	98		62 - 134			09/25/24 08:28	09/25/24 22:56	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	130		60	mg/Kg		09/25/24 16:13	09/26/24 10:17	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-32 2'

Lab Sample ID: 885-12211-17

Date Collected: 09/18/24 11:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/24/24 15:19	09/27/24 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/24/24 15:19	09/27/24 06:11	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/24/24 15:19	09/27/24 06:11	1
Ethylbenzene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 06:11	1
Toluene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 06:11	1
Xylenes, Total	ND		0.096	mg/Kg		09/24/24 15:19	09/27/24 06:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		48 - 145			09/24/24 15:19	09/27/24 06:11	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/25/24 08:28	09/25/24 23:07	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/25/24 08:28	09/25/24 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			09/25/24 08:28	09/25/24 23:07	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/25/24 16:13	09/26/24 10:30	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-22 3'

Lab Sample ID: 885-12211-18

Date Collected: 09/17/24 11:45

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/24/24 15:19	09/27/24 06:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		35 - 166			09/24/24 15:19	09/27/24 06:58	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		09/24/24 15:19	09/27/24 06:58	1	
Ethylbenzene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 06:58	1	
Toluene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 06:58	1	
Xylenes, Total	ND		0.098	mg/Kg		09/24/24 15:19	09/27/24 06:58	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		48 - 145			09/24/24 15:19	09/27/24 06:58	1	
Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/25/24 08:28	09/25/24 23:29	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/25/24 08:28	09/25/24 23:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	101		62 - 134			09/25/24 08:28	09/25/24 23:29	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	ND		60	mg/Kg		09/25/24 16:13	09/26/24 10:43	20	

Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-02 3'

Lab Sample ID: 885-12211-19

Date Collected: 09/18/24 12:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		09/24/24 15:19	09/27/24 07:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		35 - 166			09/24/24 15:19	09/27/24 07:22	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		09/24/24 15:19	09/27/24 07:22	1
Ethylbenzene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 07:22	1
Toluene	ND		0.049	mg/Kg		09/24/24 15:19	09/27/24 07:22	1
Xylenes, Total	ND		0.099	mg/Kg		09/24/24 15:19	09/27/24 07:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/24/24 15:19	09/27/24 07:22	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		09/25/24 08:28	09/25/24 23:40	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		09/25/24 08:28	09/25/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			09/25/24 08:28	09/25/24 23:40	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		60	mg/Kg		09/25/24 16:13	09/26/24 10:56	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-33 0'

Lab Sample ID: 885-12211-20

Date Collected: 09/18/24 12:30

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		09/24/24 15:19	09/27/24 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/24/24 15:19	09/27/24 07:46	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		09/24/24 15:19	09/27/24 07:46	1
Ethylbenzene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 07:46	1
Toluene	ND		0.048	mg/Kg		09/24/24 15:19	09/27/24 07:46	1
Xylenes, Total	ND		0.097	mg/Kg		09/24/24 15:19	09/27/24 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/24/24 15:19	09/27/24 07:46	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		9.5	mg/Kg		09/25/24 08:28	10/01/24 08:09	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/25/24 08:28	10/01/24 08:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	108		62 - 134			09/25/24 08:28	10/01/24 08:09	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69		60	mg/Kg		09/25/24 16:13	09/26/24 11:09	20

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Client Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-33 2'

Lab Sample ID: 885-12211-21

Date Collected: 09/18/24 13:00

Matrix: Solid

Date Received: 09/20/24 07:45

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		09/24/24 15:19	09/27/24 08:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		35 - 166			09/24/24 15:19	09/27/24 08:10	1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		09/24/24 15:19	09/27/24 08:10	1
Ethylbenzene	ND		0.047	mg/Kg		09/24/24 15:19	09/27/24 08:10	1
Toluene	ND		0.047	mg/Kg		09/24/24 15:19	09/27/24 08:10	1
Xylenes, Total	ND		0.094	mg/Kg		09/24/24 15:19	09/27/24 08:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		48 - 145			09/24/24 15:19	09/27/24 08:10	1

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		09/25/24 08:28	09/26/24 00:02	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		09/25/24 08:28	09/26/24 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	121		62 - 134			09/25/24 08:28	09/26/24 00:02	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		09/25/24 16:13	09/26/24 11:22	20

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12803/1-A
Matrix: Solid
Analysis Batch: 13061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12803

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/23/24 16:02	09/25/24 14:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		35 - 166			09/23/24 16:02	09/25/24 14:31	1

Lab Sample ID: LCS 885-12803/2-A
Matrix: Solid
Analysis Batch: 13061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	22.7		mg/Kg		91	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	203		35 - 166				

Lab Sample ID: MB 885-12912/1-A
Matrix: Solid
Analysis Batch: 13090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12912

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		09/24/24 15:19	09/27/24 03:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			09/24/24 15:19	09/27/24 03:03	1

Lab Sample ID: LCS 885-12912/2-A
Matrix: Solid
Analysis Batch: 13090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	21.7		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	202		35 - 166				

Lab Sample ID: 885-12211-14 MS
Matrix: Solid
Analysis Batch: 13090

Client Sample ID: BH24-31 0'
Prep Type: Total/NA
Prep Batch: 12912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	ND		24.9	22.1		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	207		35 - 166						

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QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-12211-14 MSD

Matrix: Solid

Analysis Batch: 13090

Client Sample ID: BH24-31 0'

Prep Type: Total/NA

Prep Batch: 12912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.6	21.5		mg/Kg		87	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	207		35 - 166								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12803/1-A

Matrix: Solid

Analysis Batch: 13063

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12803

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		09/23/24 16:02	09/25/24 14:31	1
Ethylbenzene	ND		0.050	mg/Kg		09/23/24 16:02	09/25/24 14:31	1
Toluene	ND		0.050	mg/Kg		09/23/24 16:02	09/25/24 14:31	1
Xylenes, Total	ND		0.10	mg/Kg		09/23/24 16:02	09/25/24 14:31	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier						
	100		48 - 145			09/23/24 16:02	09/25/24 14:31	1

Lab Sample ID: LCS 885-12803/3-A

Matrix: Solid

Analysis Batch: 13063

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12803

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Benzene			1.00	1.04		mg/Kg		104		70 - 130	
Ethylbenzene			1.00	1.04		mg/Kg		104		70 - 130	
Toluene			1.00	1.03		mg/Kg		103		70 - 130	
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)		102	48 - 145								

Lab Sample ID: MB 885-12912/1-A

Matrix: Solid

Analysis Batch: 13091

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12912

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		09/24/24 15:19	09/27/24 03:03	1
Ethylbenzene	ND		0.050	mg/Kg		09/24/24 15:19	09/27/24 03:03	1
Toluene	ND		0.050	mg/Kg		09/24/24 15:19	09/27/24 03:03	1
Xylenes, Total	ND		0.10	mg/Kg		09/24/24 15:19	09/27/24 03:03	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier						
	97		48 - 145			09/24/24 15:19	09/27/24 03:03	1

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-12912/3-A

Matrix: Solid

Analysis Batch: 13091

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.08		mg/Kg		108	70 - 130
Ethylbenzene	1.00	1.07		mg/Kg		107	70 - 130
Toluene	1.00	1.06		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		48 - 145

Lab Sample ID: 885-12211-15 MS

Matrix: Solid

Analysis Batch: 13091

Client Sample ID: BH24-31 2'

Prep Type: Total/NA

Prep Batch: 12912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.964	0.972		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.964	0.988		mg/Kg		103	70 - 130
Toluene	ND		0.964	0.970		mg/Kg		101	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Lab Sample ID: 885-12211-15 MSD

Matrix: Solid

Analysis Batch: 13091

Client Sample ID: BH24-31 2'

Prep Type: Total/NA

Prep Batch: 12912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.963	1.00		mg/Kg		104	70 - 130	3	20
Ethylbenzene	ND		0.963	1.02		mg/Kg		106	70 - 130	3	20
Toluene	ND		0.963	1.00		mg/Kg		104	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 885-12211-10 MS

Matrix: Solid

Analysis Batch: 13161

Client Sample ID: BH24-30 3'

Prep Type: Total/NA

Prep Batch: 12847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		46.5	49.6		mg/Kg		107	44 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
Di-n-octyl phthalate (Surr)	115		62 - 134

Eurofins Albuquerque

QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 885-12211-10 MSD

Matrix: Solid

Analysis Batch: 13161

Client Sample ID: BH24-30 3'

Prep Type: Total/NA

Prep Batch: 12847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		48.9	49.4		mg/Kg		101	44 - 136	0	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	108		62 - 134								

Lab Sample ID: MB 885-12979/1-A

Matrix: Solid

Analysis Batch: 12993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12979

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/25/24 08:28	09/25/24 20:45	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/25/24 08:28	09/25/24 20:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Di-n-octyl phthalate (Surr)	95		62 - 134	09/25/24 08:28	09/25/24 20:45	1		

Lab Sample ID: LCS 885-12979/2-A

Matrix: Solid

Analysis Batch: 12993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12979

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	46.4		mg/Kg	-	93	60 - 135		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
Di-n-octyl phthalate (Surr)			101		62 - 134						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12959/1-A

Matrix: Solid

Analysis Batch: 13028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 12959

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/24/24 19:25	09/25/24 09:42	1

Lab Sample ID: LCS 885-12959/2-A

Matrix: Solid

Analysis Batch: 13028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 12959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	30.0	32.6		mg/Kg		109	90 - 110		

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QC Sample Results

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-13033/1-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13033

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		09/25/24 16:13	09/25/24 17:48	1

Lab Sample ID: LCS 885-13033/2-A

Matrix: Solid

Analysis Batch: 13000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	31.0		mg/Kg		103	90 - 110

Lab Sample ID: 885-12211-14 MS

Matrix: Solid

Analysis Batch: 13144

Client Sample ID: BH24-31 0'

Prep Type: Total/NA

Prep Batch: 13033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	66		30.1	91.4		mg/Kg		83	50 - 150

Lab Sample ID: 885-12211-14 MSD

Matrix: Solid

Analysis Batch: 13144

Client Sample ID: BH24-31 0'

Prep Type: Total/NA

Prep Batch: 13033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66		30.0	89.0		mg/Kg		75	50 - 150	3	20

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

GC VOA

Prep Batch: 12803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	5030C	
885-12211-2	BH24-03 6.5'	Total/NA	Solid	5030C	
885-12211-3	BH24-10 2'	Total/NA	Solid	5030C	
885-12211-4	BH24-16 2'	Total/NA	Solid	5030C	
885-12211-5	BH24-16 3'	Total/NA	Solid	5030C	
885-12211-6	BH24-18 2'	Total/NA	Solid	5030C	
885-12211-7	BH24-18 3'	Total/NA	Solid	5030C	
885-12211-8	BH24-30 0'	Total/NA	Solid	5030C	
885-12211-9	BH24-30 2'	Total/NA	Solid	5030C	
885-12211-10	BH24-30 3'	Total/NA	Solid	5030C	
885-12211-11	BH24-30 5'	Total/NA	Solid	5030C	
885-12211-12	BH24-06 2.5'	Total/NA	Solid	5030C	
885-12211-13	BH24-22 2'	Total/NA	Solid	5030C	
MB 885-12803/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12803/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12803/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 12912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-14	BH24-31 0'	Total/NA	Solid	5030C	
885-12211-15	BH24-31 2'	Total/NA	Solid	5030C	
885-12211-16	BH24-32 0'	Total/NA	Solid	5030C	
885-12211-17	BH24-32 2'	Total/NA	Solid	5030C	
885-12211-18	BH24-22 3'	Total/NA	Solid	5030C	
885-12211-19	BH24-02 3'	Total/NA	Solid	5030C	
885-12211-20	BH24-33 0'	Total/NA	Solid	5030C	
885-12211-21	BH24-33 2'	Total/NA	Solid	5030C	
MB 885-12912/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12912/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12912/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-12211-14 MS	BH24-31 0'	Total/NA	Solid	5030C	
885-12211-14 MSD	BH24-31 0'	Total/NA	Solid	5030C	
885-12211-15 MS	BH24-31 2'	Total/NA	Solid	5030C	
885-12211-15 MSD	BH24-31 2'	Total/NA	Solid	5030C	

Analysis Batch: 13061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	8015M/D	12803
885-12211-2	BH24-03 6.5'	Total/NA	Solid	8015M/D	12803
885-12211-3	BH24-10 2'	Total/NA	Solid	8015M/D	12803
885-12211-4	BH24-16 2'	Total/NA	Solid	8015M/D	12803
885-12211-5	BH24-16 3'	Total/NA	Solid	8015M/D	12803
885-12211-6	BH24-18 2'	Total/NA	Solid	8015M/D	12803
885-12211-7	BH24-18 3'	Total/NA	Solid	8015M/D	12803
885-12211-8	BH24-30 0'	Total/NA	Solid	8015M/D	12803
885-12211-9	BH24-30 2'	Total/NA	Solid	8015M/D	12803
885-12211-10	BH24-30 3'	Total/NA	Solid	8015M/D	12803
885-12211-11	BH24-30 5'	Total/NA	Solid	8015M/D	12803
885-12211-12	BH24-06 2.5'	Total/NA	Solid	8015M/D	12803
885-12211-13	BH24-22 2'	Total/NA	Solid	8015M/D	12803
MB 885-12803/1-A	Method Blank	Total/NA	Solid	8015M/D	12803

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

GC VOA (Continued)

Analysis Batch: 13061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-12803/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12803

Analysis Batch: 13063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	8021B	12803
885-12211-2	BH24-03 6.5'	Total/NA	Solid	8021B	12803
885-12211-3	BH24-10 2'	Total/NA	Solid	8021B	12803
885-12211-4	BH24-16 2'	Total/NA	Solid	8021B	12803
885-12211-5	BH24-16 3'	Total/NA	Solid	8021B	12803
885-12211-6	BH24-18 2'	Total/NA	Solid	8021B	12803
885-12211-7	BH24-18 3'	Total/NA	Solid	8021B	12803
885-12211-8	BH24-30 0'	Total/NA	Solid	8021B	12803
885-12211-9	BH24-30 2'	Total/NA	Solid	8021B	12803
885-12211-10	BH24-30 3'	Total/NA	Solid	8021B	12803
885-12211-11	BH24-30 5'	Total/NA	Solid	8021B	12803
885-12211-12	BH24-06 2.5'	Total/NA	Solid	8021B	12803
885-12211-13	BH24-22 2'	Total/NA	Solid	8021B	12803
MB 885-12803/1-A	Method Blank	Total/NA	Solid	8021B	12803
LCS 885-12803/3-A	Lab Control Sample	Total/NA	Solid	8021B	12803

Analysis Batch: 13090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-14	BH24-31 0'	Total/NA	Solid	8015M/D	12912
885-12211-15	BH24-31 2'	Total/NA	Solid	8015M/D	12912
885-12211-16	BH24-32 0'	Total/NA	Solid	8015M/D	12912
885-12211-17	BH24-32 2'	Total/NA	Solid	8015M/D	12912
885-12211-18	BH24-22 3'	Total/NA	Solid	8015M/D	12912
885-12211-19	BH24-02 3'	Total/NA	Solid	8015M/D	12912
885-12211-20	BH24-33 0'	Total/NA	Solid	8015M/D	12912
885-12211-21	BH24-33 2'	Total/NA	Solid	8015M/D	12912
MB 885-12912/1-A	Method Blank	Total/NA	Solid	8015M/D	12912
LCS 885-12912/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12912
885-12211-14 MS	BH24-31 0'	Total/NA	Solid	8015M/D	12912
885-12211-14 MSD	BH24-31 0'	Total/NA	Solid	8015M/D	12912

Analysis Batch: 13091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-14	BH24-31 0'	Total/NA	Solid	8021B	12912
885-12211-15	BH24-31 2'	Total/NA	Solid	8021B	12912
885-12211-16	BH24-32 0'	Total/NA	Solid	8021B	12912
885-12211-17	BH24-32 2'	Total/NA	Solid	8021B	12912
885-12211-18	BH24-22 3'	Total/NA	Solid	8021B	12912
885-12211-19	BH24-02 3'	Total/NA	Solid	8021B	12912
885-12211-20	BH24-33 0'	Total/NA	Solid	8021B	12912
885-12211-21	BH24-33 2'	Total/NA	Solid	8021B	12912
MB 885-12912/1-A	Method Blank	Total/NA	Solid	8021B	12912
LCS 885-12912/3-A	Lab Control Sample	Total/NA	Solid	8021B	12912
885-12211-15 MS	BH24-31 2'	Total/NA	Solid	8021B	12912
885-12211-15 MSD	BH24-31 2'	Total/NA	Solid	8021B	12912

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

GC Semi VOA

Prep Batch: 12847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	SHAKE	
885-12211-2	BH24-03 6.5'	Total/NA	Solid	SHAKE	
885-12211-3	BH24-10 2'	Total/NA	Solid	SHAKE	
885-12211-4	BH24-16 2'	Total/NA	Solid	SHAKE	
885-12211-5	BH24-16 3'	Total/NA	Solid	SHAKE	
885-12211-6	BH24-18 2'	Total/NA	Solid	SHAKE	
885-12211-7	BH24-18 3'	Total/NA	Solid	SHAKE	
885-12211-8	BH24-30 0'	Total/NA	Solid	SHAKE	
885-12211-9	BH24-30 2'	Total/NA	Solid	SHAKE	
885-12211-10	BH24-30 3'	Total/NA	Solid	SHAKE	
885-12211-10 MS	BH24-30 3'	Total/NA	Solid	SHAKE	
885-12211-10 MSD	BH24-30 3'	Total/NA	Solid	SHAKE	

Prep Batch: 12979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-11	BH24-30 5'	Total/NA	Solid	SHAKE	
885-12211-12	BH24-06 2.5'	Total/NA	Solid	SHAKE	
885-12211-13	BH24-22 2'	Total/NA	Solid	SHAKE	
885-12211-14	BH24-31 0'	Total/NA	Solid	SHAKE	
885-12211-15	BH24-31 2'	Total/NA	Solid	SHAKE	
885-12211-16	BH24-32 0'	Total/NA	Solid	SHAKE	
885-12211-17	BH24-32 2'	Total/NA	Solid	SHAKE	
885-12211-18	BH24-22 3'	Total/NA	Solid	SHAKE	
885-12211-19	BH24-02 3'	Total/NA	Solid	SHAKE	
885-12211-20	BH24-33 0'	Total/NA	Solid	SHAKE	
885-12211-21	BH24-33 2'	Total/NA	Solid	SHAKE	
MB 885-12979/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12979/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-11	BH24-30 5'	Total/NA	Solid	8015M/D	12979
885-12211-12	BH24-06 2.5'	Total/NA	Solid	8015M/D	12979
885-12211-13	BH24-22 2'	Total/NA	Solid	8015M/D	12979
885-12211-14	BH24-31 0'	Total/NA	Solid	8015M/D	12979
885-12211-15	BH24-31 2'	Total/NA	Solid	8015M/D	12979
885-12211-16	BH24-32 0'	Total/NA	Solid	8015M/D	12979
885-12211-17	BH24-32 2'	Total/NA	Solid	8015M/D	12979
885-12211-18	BH24-22 3'	Total/NA	Solid	8015M/D	12979
885-12211-19	BH24-02 3'	Total/NA	Solid	8015M/D	12979
885-12211-21	BH24-33 2'	Total/NA	Solid	8015M/D	12979
MB 885-12979/1-A	Method Blank	Total/NA	Solid	8015M/D	12979
LCS 885-12979/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12979

Analysis Batch: 13085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-2	BH24-03 6.5'	Total/NA	Solid	8015M/D	12847
885-12211-3	BH24-10 2'	Total/NA	Solid	8015M/D	12847
885-12211-4	BH24-16 2'	Total/NA	Solid	8015M/D	12847
885-12211-5	BH24-16 3'	Total/NA	Solid	8015M/D	12847
885-12211-6	BH24-18 2'	Total/NA	Solid	8015M/D	12847

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

GC Semi VOA (Continued)

Analysis Batch: 13085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-7	BH24-18 3'	Total/NA	Solid	8015M/D	12847

Analysis Batch: 13161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-8	BH24-30 0'	Total/NA	Solid	8015M/D	12847
885-12211-9	BH24-30 2'	Total/NA	Solid	8015M/D	12847
885-12211-10	BH24-30 3'	Total/NA	Solid	8015M/D	12847
885-12211-10 MS	BH24-30 3'	Total/NA	Solid	8015M/D	12847
885-12211-10 MSD	BH24-30 3'	Total/NA	Solid	8015M/D	12847

Analysis Batch: 13285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	8015M/D	12847

Analysis Batch: 13333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-20	BH24-33 0'	Total/NA	Solid	8015M/D	12979

HPLC/IC

Prep Batch: 12959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	300_Prep	
885-12211-2	BH24-03 6.5'	Total/NA	Solid	300_Prep	
885-12211-3	BH24-10 2'	Total/NA	Solid	300_Prep	
885-12211-4	BH24-16 2'	Total/NA	Solid	300_Prep	
885-12211-5	BH24-16 3'	Total/NA	Solid	300_Prep	
885-12211-6	BH24-18 2'	Total/NA	Solid	300_Prep	
885-12211-7	BH24-18 3'	Total/NA	Solid	300_Prep	
885-12211-8	BH24-30 0'	Total/NA	Solid	300_Prep	
885-12211-9	BH24-30 2'	Total/NA	Solid	300_Prep	
885-12211-10	BH24-30 3'	Total/NA	Solid	300_Prep	
885-12211-11	BH24-30 5'	Total/NA	Solid	300_Prep	
885-12211-12	BH24-06 2.5'	Total/NA	Solid	300_Prep	
885-12211-13	BH24-22 2'	Total/NA	Solid	300_Prep	
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 13000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-13033/1-A	Method Blank	Total/NA	Solid	300.0	13033
LCS 885-13033/2-A	Lab Control Sample	Total/NA	Solid	300.0	13033

Analysis Batch: 13028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-2	BH24-03 6.5'	Total/NA	Solid	300.0	12959
885-12211-3	BH24-10 2'	Total/NA	Solid	300.0	12959
885-12211-4	BH24-16 2'	Total/NA	Solid	300.0	12959
885-12211-5	BH24-16 3'	Total/NA	Solid	300.0	12959
885-12211-6	BH24-18 2'	Total/NA	Solid	300.0	12959
885-12211-7	BH24-18 3'	Total/NA	Solid	300.0	12959

Eurofins Albuquerque

QC Association Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

HPLC/IC (Continued)

Analysis Batch: 13028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-8	BH24-30 0'	Total/NA	Solid	300.0	12959
885-12211-11	BH24-30 5'	Total/NA	Solid	300.0	12959
885-12211-12	BH24-06 2.5'	Total/NA	Solid	300.0	12959
885-12211-13	BH24-22 2'	Total/NA	Solid	300.0	12959
MB 885-12959/1-A	Method Blank	Total/NA	Solid	300.0	12959
LCS 885-12959/2-A	Lab Control Sample	Total/NA	Solid	300.0	12959

Prep Batch: 13033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-14	BH24-31 0'	Total/NA	Solid	300_Prep	
885-12211-15	BH24-31 2'	Total/NA	Solid	300_Prep	
885-12211-16	BH24-32 0'	Total/NA	Solid	300_Prep	
885-12211-17	BH24-32 2'	Total/NA	Solid	300_Prep	
885-12211-18	BH24-22 3'	Total/NA	Solid	300_Prep	
885-12211-19	BH24-02 3'	Total/NA	Solid	300_Prep	
885-12211-20	BH24-33 0'	Total/NA	Solid	300_Prep	
885-12211-21	BH24-33 2'	Total/NA	Solid	300_Prep	
MB 885-13033/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-13033/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-12211-14 MS	BH24-31 0'	Total/NA	Solid	300_Prep	
885-12211-14 MSD	BH24-31 0'	Total/NA	Solid	300_Prep	

Analysis Batch: 13144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-12211-1	BH24-03 3'	Total/NA	Solid	300.0	12959
885-12211-9	BH24-30 2'	Total/NA	Solid	300.0	12959
885-12211-10	BH24-30 3'	Total/NA	Solid	300.0	12959
885-12211-14	BH24-31 0'	Total/NA	Solid	300.0	13033
885-12211-15	BH24-31 2'	Total/NA	Solid	300.0	13033
885-12211-16	BH24-32 0'	Total/NA	Solid	300.0	13033
885-12211-17	BH24-32 2'	Total/NA	Solid	300.0	13033
885-12211-18	BH24-22 3'	Total/NA	Solid	300.0	13033
885-12211-19	BH24-02 3'	Total/NA	Solid	300.0	13033
885-12211-20	BH24-33 0'	Total/NA	Solid	300.0	13033
885-12211-21	BH24-33 2'	Total/NA	Solid	300.0	13033
885-12211-14 MS	BH24-31 0'	Total/NA	Solid	300.0	13033
885-12211-14 MSD	BH24-31 0'	Total/NA	Solid	300.0	13033

Eurofins Albuquerque

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-03 3'**Lab Sample ID: 885-12211-1****Date Collected: 09/17/24 09:00****Matrix: Solid****Date Received: 09/20/24 07:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 19:13
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 19:13
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13285	JE	EET ALB	09/30/24 15:44
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		100	13144	EH	EET ALB	09/26/24 14:05

Client Sample ID: BH24-03 6.5'**Lab Sample ID: 885-12211-2****Date Collected: 09/17/24 10:00****Matrix: Solid****Date Received: 09/20/24 07:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 19:36
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 19:36
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 14:16
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 13:15

Client Sample ID: BH24-10 2'**Lab Sample ID: 885-12211-3****Date Collected: 09/17/24 10:30****Matrix: Solid****Date Received: 09/20/24 07:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 20:00
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 20:00
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 14:29
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 13:28

Client Sample ID: BH24-16 2'**Lab Sample ID: 885-12211-4****Date Collected: 09/17/24 11:00****Matrix: Solid****Date Received: 09/20/24 07:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 20:47

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-16 2'

Date Collected: 09/17/24 11:00

Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 20:47
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 14:41
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 13:40

Client Sample ID: BH24-16 3'

Date Collected: 09/17/24 11:30

Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 21:10
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 21:10
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 14:54
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 13:53

Client Sample ID: BH24-18 2'

Date Collected: 09/17/24 12:00

Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 21:34
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 21:34
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 15:06
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 14:06

Client Sample ID: BH24-18 3'

Date Collected: 09/17/24 12:30

Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 21:57
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 21:57

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-18 3'
Date Collected: 09/17/24 12:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13085	EM	EET ALB	09/26/24 15:19
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 14:19

Client Sample ID: BH24-30 0'
Date Collected: 09/17/24 13:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 22:21
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 22:21
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13161	EM	EET ALB	09/27/24 13:36
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 14:58

Client Sample ID: BH24-30 2'
Date Collected: 09/17/24 14:00
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 22:44
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 22:44
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13161	EM	EET ALB	09/27/24 13:46
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		50	13144	EH	EET ALB	09/26/24 14:17

Client Sample ID: BH24-30 3'
Date Collected: 09/17/24 14:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 23:08
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 23:08
Total/NA	Prep	SHAKE			12847	KR	EET ALB	09/24/24 09:27
Total/NA	Analysis	8015M/D		1	13161	EM	EET ALB	09/27/24 13:57

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-30 3'

Lab Sample ID: 885-12211-10

Date Collected: 09/17/24 14:30

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		100	13144	EH	EET ALB	09/26/24 14:30

Client Sample ID: BH24-30 5'

Lab Sample ID: 885-12211-11

Date Collected: 09/17/24 15:00

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 23:31
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 23:31
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:01
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 15:36

Client Sample ID: BH24-06 2.5'

Lab Sample ID: 885-12211-12

Date Collected: 09/18/24 09:00

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/25/24 23:55
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/25/24 23:55
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:12
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 15:49

Client Sample ID: BH24-22 2'

Lab Sample ID: 885-12211-13

Date Collected: 09/18/24 09:30

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8015M/D		1	13061	JP	EET ALB	09/26/24 00:19
Total/NA	Prep	5030C			12803	JP	EET ALB	09/23/24 16:02
Total/NA	Analysis	8021B		1	13063	JP	EET ALB	09/26/24 00:19
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:23
Total/NA	Prep	300_Prep			12959	JT	EET ALB	09/24/24 19:25
Total/NA	Analysis	300.0		20	13028	EH	EET ALB	09/25/24 16:02

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-31 0'
Date Collected: 09/18/24 10:00
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 03:27
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 03:27
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:34
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 09:26

Client Sample ID: BH24-31 2'
Date Collected: 09/18/24 10:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 04:38
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 04:38
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:45
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 10:05

Client Sample ID: BH24-32 0'
Date Collected: 09/18/24 11:00
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 05:48
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 05:48
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 22:56
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 10:17

Client Sample ID: BH24-32 2'
Date Collected: 09/18/24 11:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 06:11

Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-32 2'

Lab Sample ID: 885-12211-17

Date Collected: 09/18/24 11:30

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 06:11
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 23:07
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 10:30

Client Sample ID: BH24-22 3'

Lab Sample ID: 885-12211-18

Date Collected: 09/17/24 11:45

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 06:58
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 06:58
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 23:29
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 10:43

Client Sample ID: BH24-02 3'

Lab Sample ID: 885-12211-19

Date Collected: 09/18/24 12:00

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 07:22
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 07:22
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/25/24 23:40
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 10:56

Client Sample ID: BH24-33 0'

Lab Sample ID: 885-12211-20

Date Collected: 09/18/24 12:30

Matrix: Solid

Date Received: 09/20/24 07:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 07:46
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 07:46

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Lab Chronicle

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Client Sample ID: BH24-33 0'
Date Collected: 09/18/24 12:30
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	13333	KR	EET ALB	10/01/24 08:09
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 11:09

Client Sample ID: BH24-33 2'
Date Collected: 09/18/24 13:00
Date Received: 09/20/24 07:45

Lab Sample ID: 885-12211-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8015M/D		1	13090	JP	EET ALB	09/27/24 08:10
Total/NA	Prep	5030C			12912	JP	EET ALB	09/24/24 15:19
Total/NA	Analysis	8021B		1	13091	JP	EET ALB	09/27/24 08:10
Total/NA	Prep	SHAKE			12979	KR	EET ALB	09/25/24 08:28
Total/NA	Analysis	8015M/D		1	12993	EM	EET ALB	09/26/24 00:02
Total/NA	Prep	300_Prep			13033	EH	EET ALB	09/25/24 16:13
Total/NA	Analysis	300.0		20	13144	EH	EET ALB	09/26/24 11:22

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex
Project/Site: Hawk 35 Feb CTB

Job ID: 885-12211-1

Laboratory: Eurofins Albuquerque

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	NM100001	02-26-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Chain-of-Custody Record

Client: Vertex (bill to 2061)

Mailing Address: 3101 Boyd dr

Phone #: Cadillac, NM, 88226

email or Fax#: 575 725-5001

QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ AZ Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Hawk 35 Feb CFB

Project #:

24E-0931

Project Manager:

Chance DixonCdixon@vertexenv.com

Sampler:

On Ice: ☒ Yes ☐ No chucky# of Coolers: 1Cooler Temp (including CF): 4.0 - 0.1 = 4.5 (°C)

Date Time Matrix Sample Name

9/17/24 9:00 Soil BH24-03 3'

9/17/24 9:30 ' 6.5'

10:00 ' 2'

10:56 BH24-16 2'

11:00 BH24-16 2'

11:36 ' 3'

12:00 BH24-18 2'

12:30 ' 3'

13:00 ' A

13:30 BH24-30 0'

14:00 ' 2'

14:30 ' 3'

Date Time Relinquished by:

9/19 9:00 Labrina Taylor

Date Time Relinquished by:

9/19/24 19:00 Chance Dixon

Received by:

Chance Dixon

Received by:

Chance Dixon

Date Time

9/19/24 9:00

Date Time

9/20/24 7:45

Remarks:

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

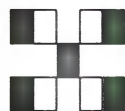
RCRA 8 Metals

Cd, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)


**HALL ENVIRONM
ANALYSIS LABO**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87107

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



885-1221 COC

Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-12211-1

Login Number: 12211

List Number: 1

Creator: McQuiston, Steven

List Source: Eurofins Albuquerque

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment 4

Closure Criteria Determination			
Site Name: Hawk 35 Fed CTB			
Spill Coordinates: 32.180128, -103.536706		Y: UTM northing	
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>75	feet
	Distance between release and nearest DTGW reference	626	feet
		0.12	miles
	Date of nearest DTGW reference measurement	January 20, 2013	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3,853	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	22,650	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	44,789	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	130,953	feet
	ii) Within 1000 feet of any fresh water well or spring	130,953	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1,412	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	124,775	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest unstable area	39,442	feet
10	Within a 100-year Floodplain	N/A	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	77,145	feet
11	Soil Type	Simona-Upton Association	
12	Ecological Classification	Simona	
13	Geology	Qeq	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

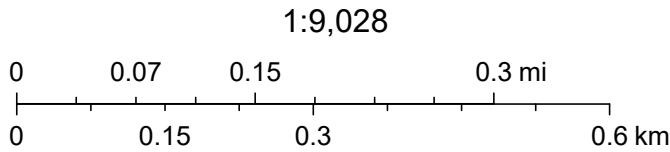
OSE POD Location Map



8/27/2024, 9:38:09 AM

GIS WATERS PODs

- Active
- OSE District Boundary
- NHD Flowlines
- Stream River



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



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) BH 24				OSE FILE NUMBER(S) C3603; 518404			
	WELL OWNER NAME(S) INTERCONTINENTAL POTASH CORP				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 600 W. BENDER BLVD.				CITY HOBBS		STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 10	SECONDS 44.8 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 103	32	17.8 W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE T24S; R 33E; SECTION 35								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1186		NAME OF LICENSED DRILLER RODNEY HAMMER			NAME OF WELL DRILLING COMPANY ENVIRO-DRILL, INC.		
	DRILLING STARTED 01-10-13		DRILLING ENDED 01-10-13		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 75'	
					DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input checked="" type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED)							STATIC WATER LEVEL IN COMPLETED WELL (FT)
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input checked="" type="radio"/> OTHER - SPECIFY: AUGER							
	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	75	8"	N/A	N/A	N/A	N/A	N/A
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						

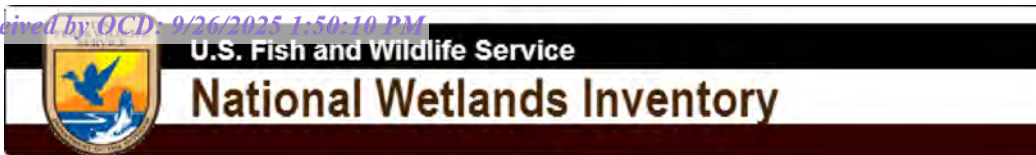
FOR OSE INTERNAL USE

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

FILE NUMBER C-3603	POD NUMBER 1	TRN NUMBER 518404
LOCATION T24S - R33E - Sec 35.223		PAGE 1 OF 2

STATE ENGINEER'S OFFICE
ROSWELL, N.M.
JAN 30 1911
JAN 30 1911

Released to Imaging: 10/2/2025 4:07:38 PM



02. Distance to Riverine



August 27, 2024

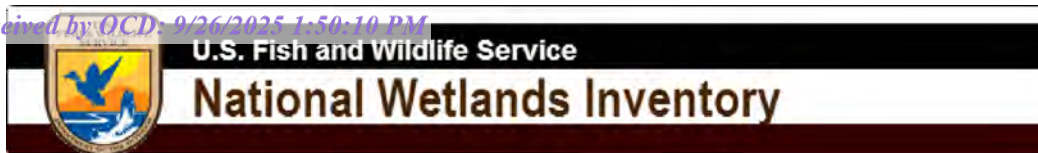
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

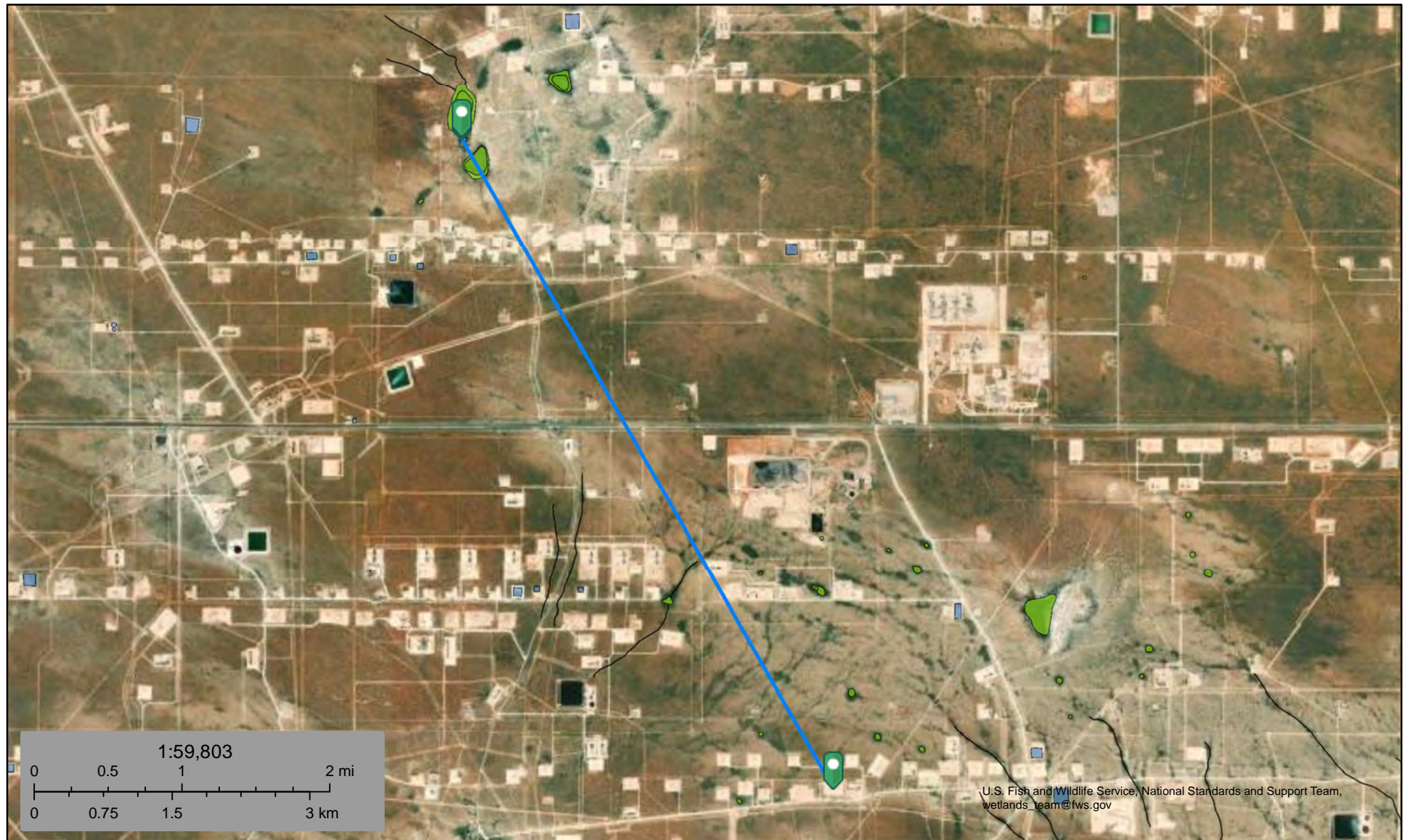
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



03. Lakebed



August 27, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

Hawk 35 Fed CTB Distance to Residence

Write a description for your map.

Greenclean

Legend

- 44,789
- Release

Residence

Hearns pit

32.180123, -103.536706

Google Earth

Released to Imaging: 10/2/2025 4:07:38 PM

Image © 2024 Airbus

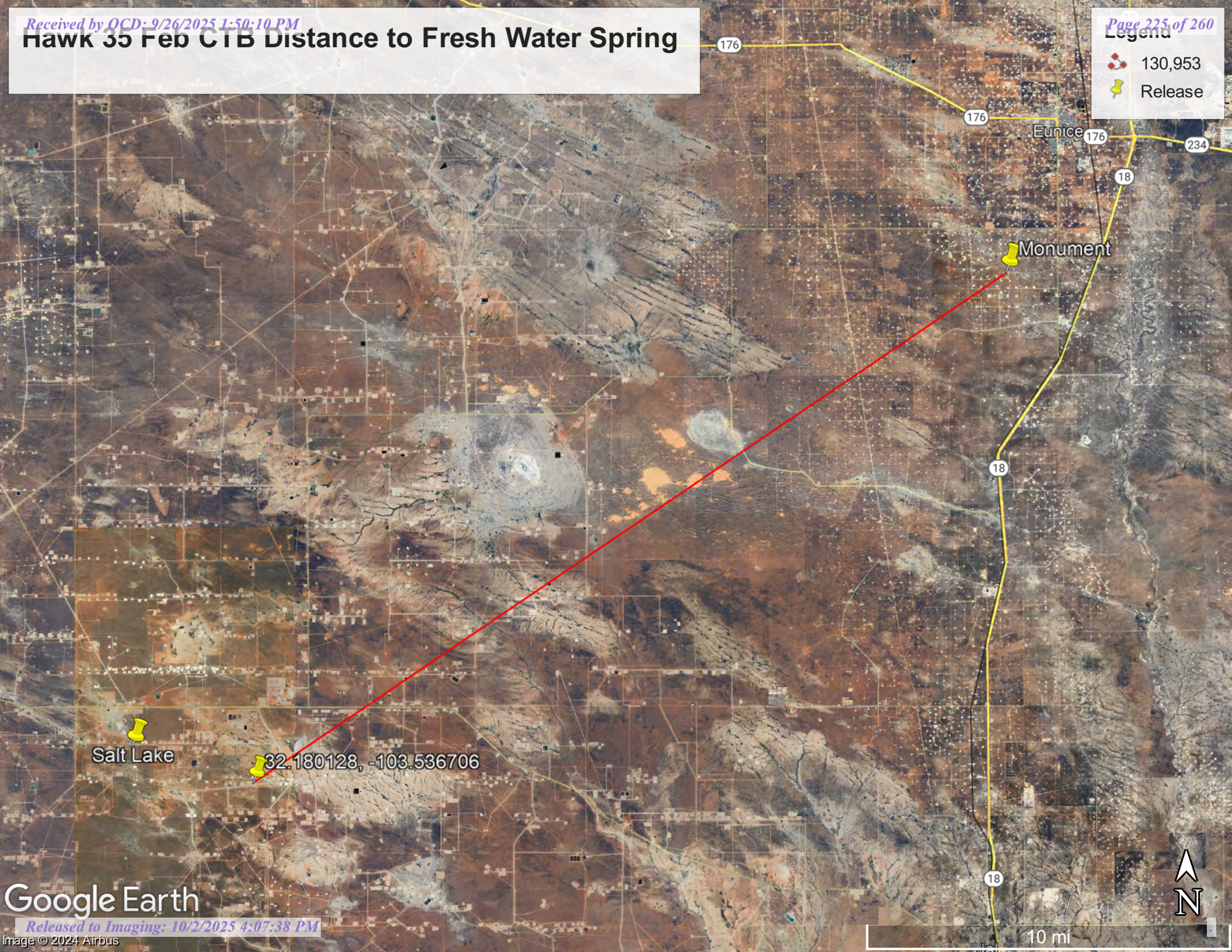
3 mi

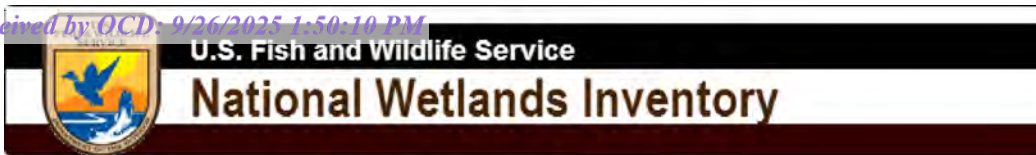


Hawk 35 Feb CTB Distance to Fresh Water Spring

Legend

- 130,953
- Release





07. Distance to wetland



August 27, 2024

Wetlands

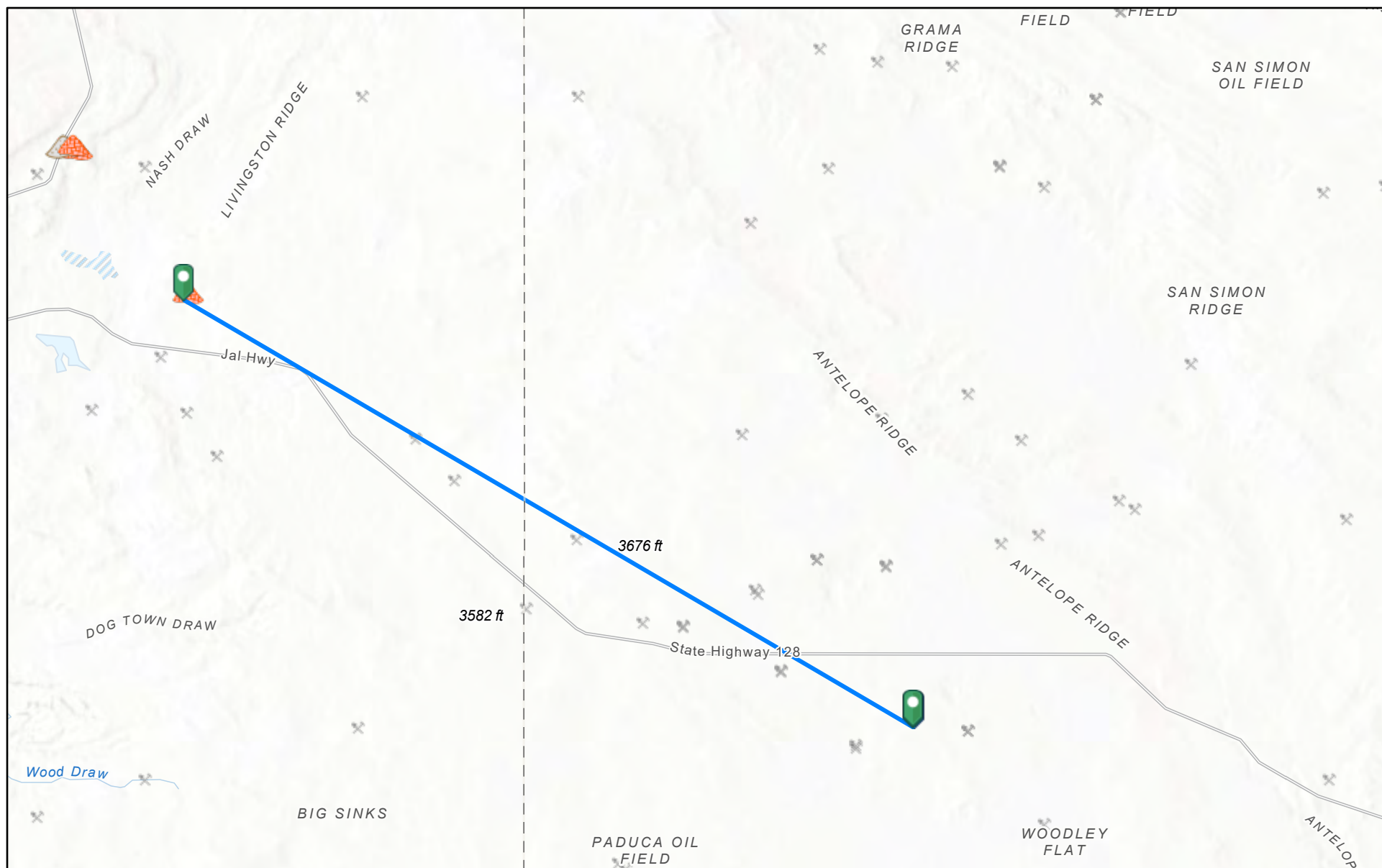
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

08. Hawk 35Feb CTB_Mine_3676



8/27/2024, 1:53:01 PM

Registered Mines

Aggregate, Stone etc.



Aggregate, Stone etc.



Aggregate, Stone etc.

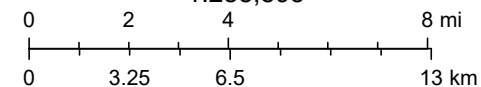


Potash



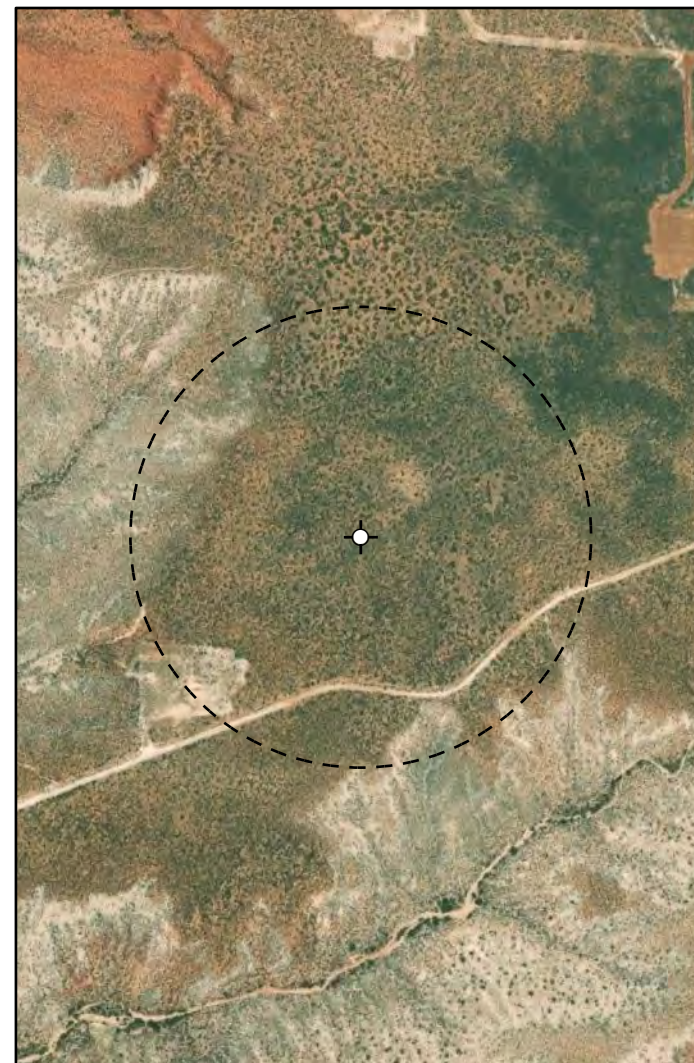
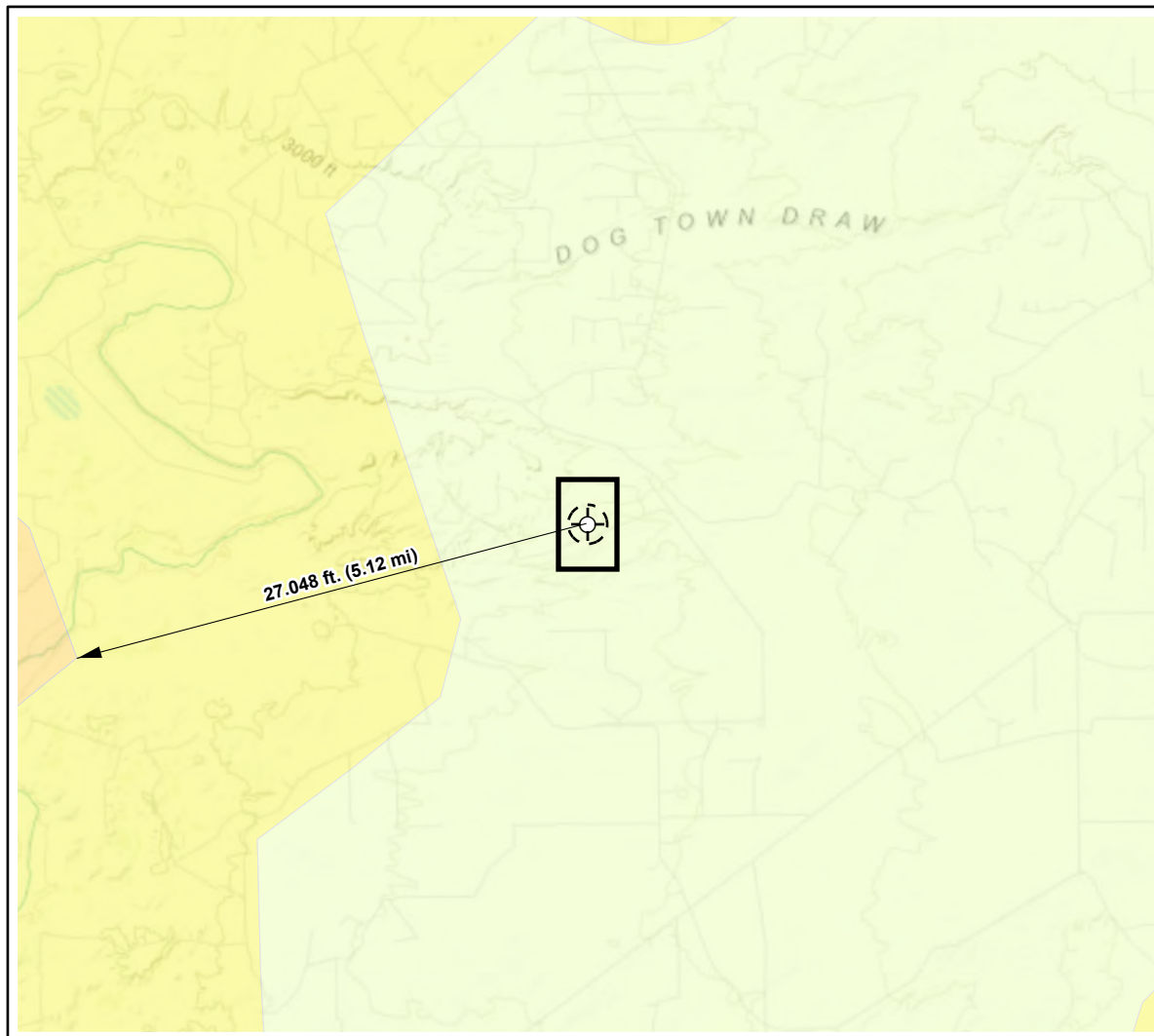
Salt

1:288,895

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

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)



Karst Potential

- Critical
- High
- Medium
- Low

- Site Buffer (1000 ft.)
- Site Location

Overview Map
0 0.5 1 2 mi

Detail Map
0 150 300 600 ft



Map Center:
Lat/Long
32.180128°,-103.923636°

NAD 1983 UTM Zone 13N
Date: Sep 08/24



**Karst Potential Map
Hawk 35 Fed CTB**

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.

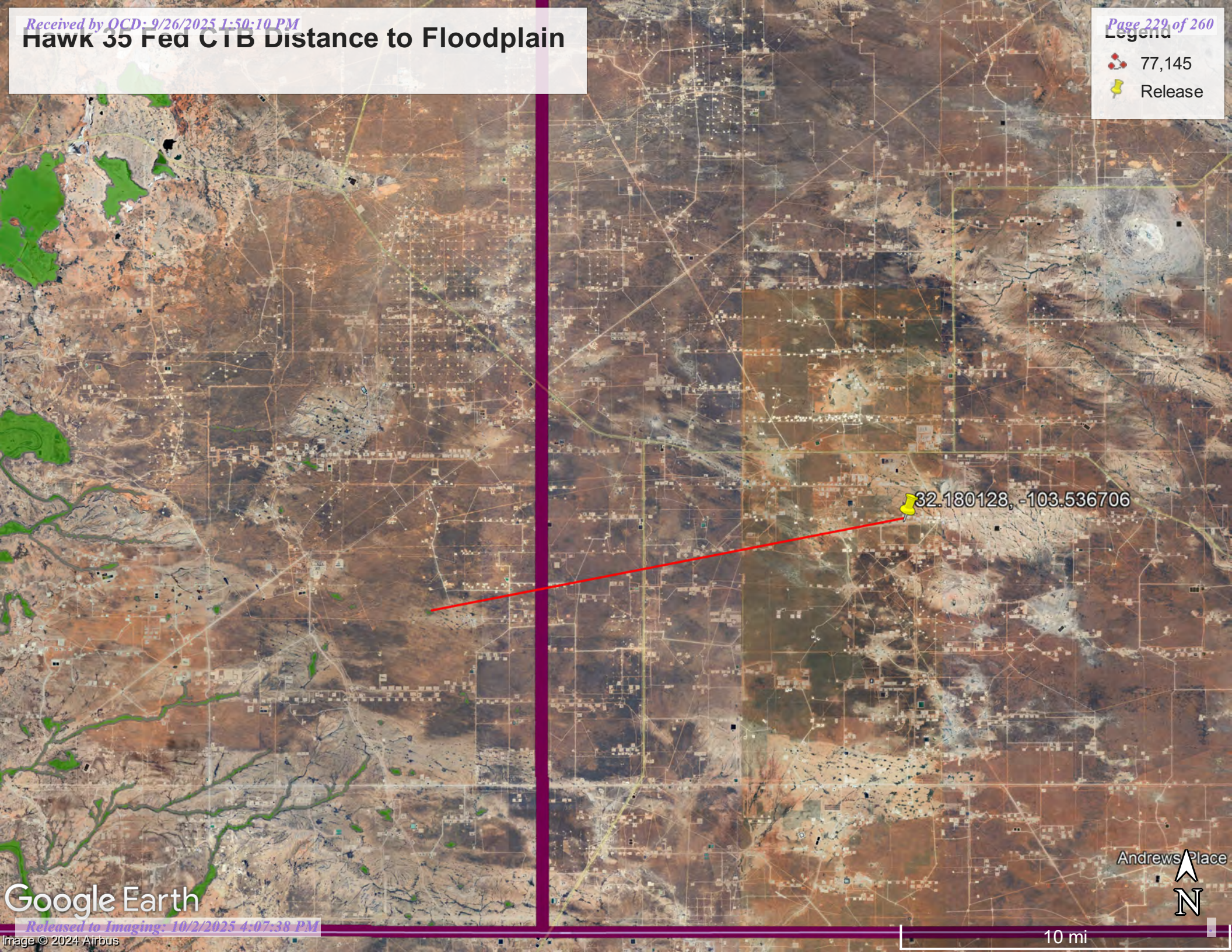
Note: Inset Map, Esri 2023; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

VERSATILITY. EXPERTISE.

Hawk 35 Fed CTB Distance to Floodplain

Legend

- 77,145
- Release



Google Earth

National Flood Hazard Layer FIRMette



103°32'31"W 32°11'4"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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/27/2024 at 4:11 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

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

Custom Soil Resource Report for **Lea County, New Mexico**



August 27, 2024

Preface

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

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

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

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

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

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

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Contents

Preface..... 2

How Soil Surveys Are Made.....5

Soil Map..... 8

 Soil Map (Hawk 35 Feb CTB_ Soil Map).....9

 Legend.....10

 Map Unit Legend (Hawk 35 Feb CTB_ Soil Map).....11

 Map Unit Descriptions (Hawk 35 Feb CTB_ Soil Map)..... 11

 Lea County, New Mexico..... 13

 BE—Berino-Cacique loamy fine sands association..... 13

 KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes..... 15

 SR—Simona-Upton association..... 16

Soil Information for All Uses..... 19

 Ecological Sites..... 19

 All Ecological Sites — 19

 Map—Dominant Ecological Site.....20

 Legend—Dominant Ecological Site.....21

 Table—Ecological Sites by Map Unit Component..... 22

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 (Hawk 35 Feb CTB_ Soil Map)



Custom Soil Resource Report


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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 (Hawk 35 Feb CTB_ Soil Map)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	1.6	4.1%
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	3.2	8.2%
SR	Simona-Upton association	34.2	87.8%
Totals for Area of Interest		38.9	100.0%

Map Unit Descriptions (Hawk 35 Feb CTB_ Soil Map)

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.

Custom Soil Resource Report

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

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

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

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

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

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

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

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

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

Custom Soil Resource Report

Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association**Map Unit Setting***National map unit symbol:* dmpd*Elevation:* 3,000 to 3,900 feet*Mean annual precipitation:* 10 to 13 inches*Mean annual air temperature:* 60 to 62 degrees F*Frost-free period:* 190 to 205 days*Farmland classification:* Not prime farmland**Map Unit Composition***Berino and similar soils:* 50 percent*Cacique and similar soils:* 40 percent*Minor components:* 10 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Berino****Setting***Landform:* Plains*Landform position (three-dimensional):* Rise*Down-slope shape:* Linear*Across-slope shape:* Linear*Parent material:* Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock**Typical profile***A - 0 to 6 inches:* loamy fine sand*Btk - 6 to 60 inches:* sandy clay loam**Properties and qualities***Slope:* 0 to 3 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*Calcium carbonate, maximum content:* 40 percent*Gypsum, maximum content:* 1 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 2.0*Available water supply, 0 to 60 inches:* Moderate (about 8.7 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7c*Hydrologic Soil Group:* B*Ecological site:* R070BD003NM - Loamy Sand*Hydric soil rating:* No

Custom Soil Resource Report

Description of Cacique**Setting**

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bt - 12 to 28 inches: sandy clay loam

Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 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: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Minor Components**Maljamar**

Percent of map unit: 6 percent

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

Palomas

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Custom Soil Resource Report

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes**Map Unit Setting**

National map unit symbol: 2tw43
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough, dry, and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough, Dry**Setting**

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Custom Soil Resource Report

Hydric soil rating: No

Minor Components**Eunice**

Percent of map unit: 10 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

SR—Simona-Upton association**Map Unit Setting**

National map unit symbol: dmr3

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 16 inches

Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 50 percent

Upton and similar soils: 35 percent

Minor components: 15 percent

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

Description of Simona**Setting**

Landform: Ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Convex

Custom Soil Resource Report

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly fine sandy loam

Bk - 8 to 16 inches: fine sandy loam

Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Description of Upton**Setting**

Landform: Ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly loam

Bkm - 8 to 18 inches: cemented material

BCK - 18 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Custom Soil Resource Report

Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 6 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Stegall

Percent of map unit: 5 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Slaughter

Percent of map unit: 4 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

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 —

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







Custom Soil Resource Report





MAP LEGEND**Area of Interest (AOI)**
 Area of Interest (AOI)
Background
 Aerial Photography
Soils**Soil Rating Polygons**


-  R070BD002NM
-  R070BD003NM
-  R077DY049TX
-  Not rated or not available




Soil Rating Lines

-  R070BD002NM
-  R070BD003NM
-  R077DY049TX
-  Not rated or not available

Soil Rating Points

-  R070BD002NM
-  R070BD003NM
-  R077DY049TX
-  Not rated or not available

Water Features
 Streams and Canals
Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

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: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

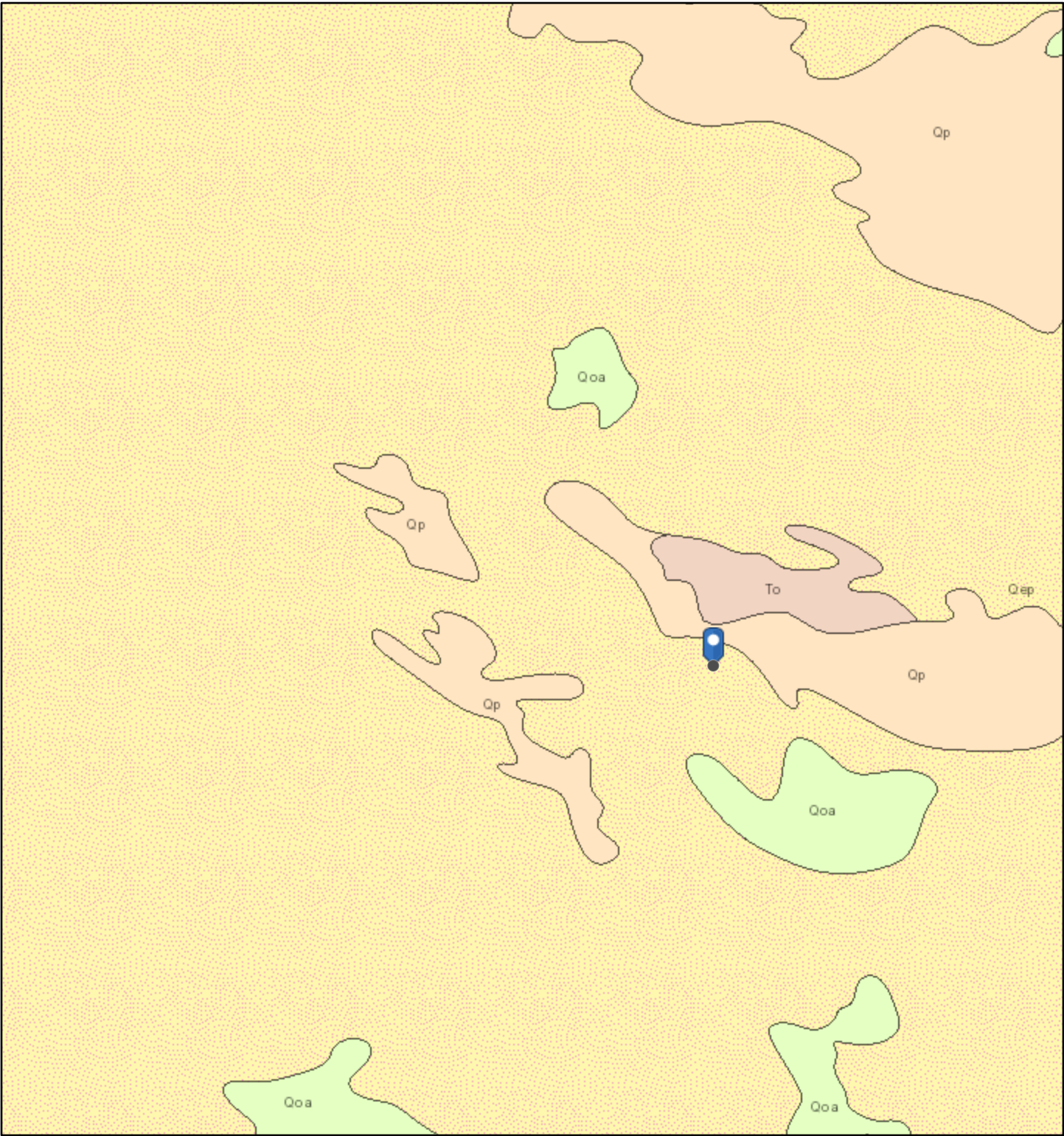
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Table—Ecological Sites by Map Unit Component

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
BE	Berino-Cacique loamy fine sands association	Berino (50%)	R070BD003NM — Loamy Sand	1.6	4.1%
		Cacique (40%)	R070BD004NM — Sandy		
		Maljamar (6%)	R077CY028TX — Limy Upland 16-21" PZ		
		Palomas (4%)	R070BD003NM — Loamy Sand		
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	Kimbrough, dry (80%)	R077DY049TX — Very Shallow 12-17" PZ	3.2	8.2%
		Eunice (10%)	R077DY049TX — Very Shallow 12-17" PZ		
		Spraberry (6%)	R077DY049TX — Very Shallow 12-17" PZ		
		Kenhill (4%)	R077DY038TX — Clay Loam 12-17" PZ		
SR	Simona-Upton association	Simona (50%)	R070BD002NM — Shallow Sandy	34.2	87.8%
		Upton (35%)	R070BC025NM — Shallow		
		Kimbrough (6%)	R077CY037TX — Very Shallow 16-21" PZ		
		Stegall (5%)	R077CY028TX — Limy Upland 16-21" PZ		
		Slaughter (4%)	R077CY028TX — Limy Upland 16-21" PZ		
Totals for Area of Interest				38.9	100.0%

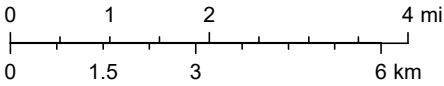
Hawk 35 Fed CTB Geology



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



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

ArcGIS Web AppBuilder

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General Information
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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

QUESTIONS

Action 509739

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2526948722
Incident Name	NAPP2526948722 HAWK 35 FEDERAL CTB @ A-35-24S-33E
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hawk 35 Federal CTB
Date Release Discovered	08/20/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
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	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 25 BBL Recovered: 20 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 509739

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 09/26/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 509739

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	8900
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	180
GRO+DRO (EPA SW-846 Method 8015M)	97
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/13/2025
On what date will (or did) the final sampling or liner inspection occur	11/12/2025
On what date will (or was) the remediation complete(d)	11/12/2025
What is the estimated surface area (in square feet) that will be reclaimed	13000
What is the estimated volume (in cubic yards) that will be reclaimed	800
What is the estimated surface area (in square feet) that will be remediated	13000
What is the estimated volume (in cubic yards) that will be remediated	800

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 509739

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 09/26/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 509739

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 509739

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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

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CONDITIONS

Action 509739

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 509739
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Site Characterization and Remediation Plan is approved with the following conditions: 1. All areas not reasonably needed for production, including those areas off pad and in pasture, must be restored fully through re-vegetation; those points include: BH24-37, BH24-07, BH24-36, BH24-38, BH-24-26. 2. The variance request to collect 5-point composite samples every 400 sq. ft., rather than every 200 sq. ft. is approved. 3. Collect grab samples in areas which have discoloration and staining as proposed. 4. Ensure confirmation samples are collected, both floor and sidewalls as needed, in areas where only field screening were taken: BH24-36, BH24-38, BH24-26 to confirm impact has been removed. 5. Complete vertical delineation as proposed for BH24-07 and BH24-37.	10/2/2025