



2904 W 2nd St.  
 Roswell, NM 88201  
 voice: 575.624.2420  
 fax: 575.624.2421  
 www.atkinseng.com

September 21, 2023

NMOCD District 2  
 1811 S. First St.,  
 Artesia, New Mexico 88210

SUBJECT: Remediation Closure Report for the MAL-Blackcat 8" Poly Line Release  
 (NAPP2315350925), Eddy County, New Mexico

Dear NMOCD District 2,

On behalf of Frontier Field Services, LLC, Atkins Engineering Associates INC. (AEA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to gas pipeline activities at the Mal – Blackcat 8" Poly Line. The site is in Unit D, Section 23, Township 17S, Range 28E, Eddy County, New Mexico, on Private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

Table 1: Release Information and Closure Criteria			
Name	Mal – Blackcat 8" Poly Line	Company	Frontier Field Services, LLC
API Number	N/A	Location	32.82442 -104.152701
Incident Number	NAPP2315350925		
Estimated Date of Release	5/29/23	Date Reported to NMOCD	6/2/23
Land Owner	Private	Reported To	NMOCD
Source of Release	2" poly vent blowout due to high pressure threshold		
Released Volume	11 BBLS 158.68 MCF	Released Material	Condensate Gas
Recovered Volume	0	Net Release	11 BBLS 158.68 Gas
NMOCD Closure Criteria	<50 feet to Groundwater		
AEA Response Dates	6/23,7/21/2023		

## **1.0 Background**

On May 29, 2023,, a release was discovered at the Mal-Blackcat 8" Poly Line pipeline due to a 2" poly vent blowout due to high pressure threshold. Initial response activities were conducted by the operator, and included source elimination by means of repair and immediate site stabilization and release recovery. Figures 1 and 2 illustrate the vicinity and site location, Figure 3 illustrates the release location. The C-141 forms are included in Appendix A.

## **2.0 Site Information and Closure Criteria**

The Mal-Blackcat 8" Poly Line is located approximately 15 miles East of Artesia, New Mexico on privately-owned land at an elevation of approximately 3657 feet above mean sea level (amsl).

Based upon the New Mexico Office of the State Engineers (NMOSE) online water well database, (Appendix B), depth to groundwater in the area is estimated to be 58 feet below grade surface (bgs). There are no known water sources within ½-mile of the location, according to the NMOSE database. ([https://gis.ose.state.nm.us/gisapps/ose\\_pod\\_locations/](https://gis.ose.state.nm.us/gisapps/ose_pod_locations/); accessed 4/10/2019). The nearest significant watercourse is unnamed water body, located approximately 2,224.6 feet northeast of the location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

## **3.0 Release Characterization and Remediation Activities**

On May 23, 2023, Frontier Field Services, LLC personnel arrived on site in response to the release associated with MAL – Blackcat 8" Poly Line. AEA performed site delineation activities on June 23, 2023 and July 21, 2023 by collecting soil samples around the release site and throughout the previously excavated area. Soil samples were field-screened for chloride using an electrical conductivity (EC) meter.

A total of 34 sample locations (B1-B11) were investigated using a hand-auger, to depths up to 5 feet bgs. A minimum of two samples were collected at each sampling location and field-screened using the method above. A total of 34 samples were collected for laboratory analysis for total chloride using EPA Method 300.0., EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D.

AEA returned to the site to oversee the excavation of contaminated soil near and on the pipeline. AEA guided the excavation activities by collecting soil samples for field screening. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria would be met. NMOCD was notified on August 18, 2023, that closure samples were expected to be collected in two (2) business days. A copy of this notification is included in Appendix E.

On August 22, 2023 AEA began conducting confirmation sampling of the walls and base of the excavation. The areas around sample locations CS1-CS4, SW1-SW6 were excavated to a depth of 3-4 feet bgs. The areas around sample locations C5-C7, SW7-SW10 were excavated to a depth of 1-4 feet bgs.

The area around the overspray sample locations C8-C52, were scraped to a depth of 3 inches bgs.

The confirmation samples were comprised of representative wall and base 5-point composite samples, each representing 200 ft<sup>2</sup> of exposed excavation of the base (CS1-CS52) and walls (SW1-SW24).

On August 29, 2023, Lab analysis showed that sample locations CS1, CS3, CS8-CS36, CS46, CS48, SW6, SW8-SW10, SW12-SW24 were still elevated in TPH and Chlorides.

On September 6, 2023, AEA returned to site to extend sample locations CS1, CS3, CS8-CS36, CS46, CS48, SW6, SW8-SW10, SW12-SW24. The areas around sample locations CS1, CS3, SW6 were extended to a depth of 3.5 - 4.5 feet bgs. The areas around sample locations SW8 – SW10 were extended laterally 1 foot out. The areas around sample locations CS8-CS36, CS46, CS48 were extended to a depth of 0.6 inches bgs. The area around sample locations SW12-SW24 were laterally extended 1 foot.

On September 13, 2023, lab analysis showed that sample locations CS28 – CS32 were still elevated in TPH.

On September 13, 2023, AEA returned to site to extend sample locations CS28-CS32. The areas around sample locations CS28-CS32 were extended to a depth of 1-foot bgs.

On September 15, 2023, AEA received lab confirmation that all samples were below NMOCD closure criteria.

All samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Cardinal Laboratories in Hobbs, New Mexico (Appendix D).

Figure 3 shows the extent of the excavation and sample locations. All laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

Approximately 290 cubic yards of contaminated soil was removed and hauled to a NMOCD approved facility (waste manifest available upon request). The contaminated soil was transported and disposed of at Jay Dan Land Farm, near Lovington, NM.

#### **4.0 Scope and Limitations**

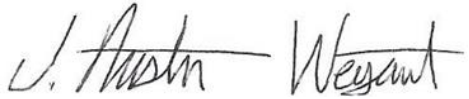
The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Austin Weyant at 575-626-3993

MAL-Blackcat 8" Poly Line Remediation Closure Report (nAPP2315350925)  
September 21, 2023

Page 4 of 4

Submitted by:  
Atkins Engineering Associates INC

A handwritten signature in black ink, appearing to read "Austin Weyant".

Austin Weyant  
Geoscientist

**ATTACHMENTS:**

**Figures:**

Figure 1: Hydrology Setbacks Map  
Figure 2: Karst and NMOSE PODs Map  
Figure 3: Site and Sample Location Map

**Tables:**

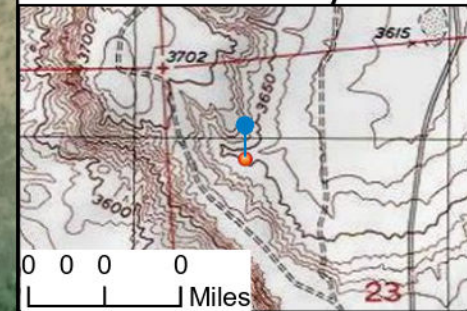
Table 2: NMOCD Closure Criteria Justification  
Table 3a: Summary of Initial Sample Results  
Table 3b: Summary of Closure Sample Results

**Appendices:**

Appendix A: Form C141  
Appendix B: NMOSE Wells Report  
Appendix C: Laboratory Analytical Reports  
Appendix D: Open Excavation Photo Log  
Appendix E: NMOCD Correspondence

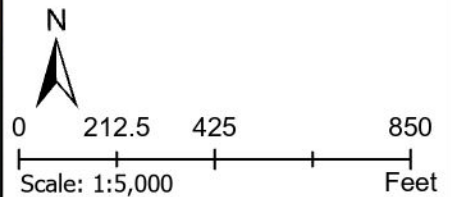
# FIGURES

**FIGURE 1-  
Hydrology Setbacks  
Blackcat 8" Poly Line**



## LEGEND

- Release Point
- Lakes\_Playas
- Springs\_Seeps
- Streams\_Canals
- Flowlines\_SENM
- FEMA\_Flood\_Zones\_2011
- OSE\_PODs
- ReleasePoint\_Buffer 500ft



NAPP2315350925

DRAWN LCM

DATE DRAWN: 9/21/2023 REVIEW JAW

**Atkins**  
ENGINEERING ASSOCIATES

FIGURE 2-  
Karst and NMOSE PODs  
Blackcat 8" Poly Line



## LEGEND

### BLM Karst Potential

High

Low

Medium

Release Point

OSE\_Points\_of\_Diversion

Excavation Area

Sample Location



0 25 50 100  
Scale: 1:640 Feet

NAPP2315350925

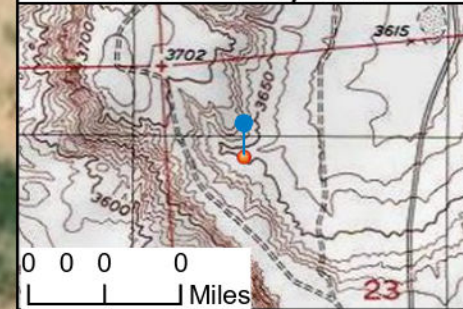
JOB No. blackcat\_env.23

DRAWN LCM

DATE DRAWN: 9/21/2023 REVIEW JAW

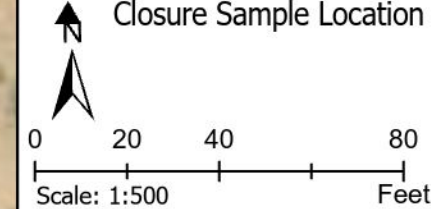
**Atkins**  
ENGINEERING ASSOCIATES

**FIGURE 3-  
Sample Map  
Blackcat 8" Poly Line**



## LEGEND

- Release Point
- ▲ OSE\_Points\_of\_Diversion
- Excavation Area
- Sample Location
- ▲ Closure Sample Location



NAPP2315350925

JOB No. blackcat\_env.23

DRAWN LCM

DATE DRAWN: 9/21/2023 REVIEW JAW

**Atkins**  
ENGINEERING ASSOCIATES

# TABLES

Table 2:  
NMOCD Closure Criteria

Frontier Field Services  
MAL-Blackcat 8" Poly Line

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	<50	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	>1/2 Mile	United States Geological Survey Topographical Map
Horizontal Distance to Nearest Significant Watercourse (ft)	>1000ft	United States Geological Survey Topographical Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS	X	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

SMA #

Table 3a:  
Summary of Initial Sample Results

Frontier Field Services  
MAL-Blackcat 8" Poly Line

Sample ID	Sample Date	Depth (feet bgs)	Proposed Action	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl- mg/Kg
NMED Closure Criteria				50	10				100	600
B1	6/23/2023	0.50	excavate	80.2	<0.05	560	16400	7210	24170	1250
		1.00		4.952	<0.0250	56.4	1890	752	2698.4	388
		2.00		1.3759	<0.0250	27.3	1240	504	1771.3	181
		3.00		-	-	<20	297	111	408	-
	7/21/2023	4	in-situ	-	-	<20	76.9	<50	76.9	-
		5		-	-	<20	<25	<50	<95	-
B2	6/23/2023	0.50	excavate	0.1697	<0.0250	<20	475	238	713	130
		1.00		<0.0250	<0.0250	<20	169	103	272	269
		2.00		<0.0250	<0.0250	<20	605	299	904	562
	7/21/2023	3.00	in-situ	-	-	<20	74.9	<50	74.9	-
B3	6/23/2023	0.50	excavate	0.3084	<0.0250	<20	921	560	1481	46
	7/16/2023	1.00		-	-	<20	69.6	50.7	120.3	-
	7/21/2023	1.5	in-situ	-	-	<20	37.4	<50	37.4	-
B4	6/23/2023	Surface	excavate	0.9889	<0.0250	<20	496	312	808	28.1
	7/16/2023	0.50		-	-	<20	165	137	302	-
	7/16/2023	1	in-situ	-	-	<20	48.7	<50	48.7	-
B5	6/23/2023	Surface	excavate	0.2518	<0.0250	<20	114	99.6	213.6	63.5
	7/16/2023	0.50	in-situ	-	-	<20	<25	<50	0	-
B6	6/23/2023	Surface	excavate	0.4572	<0.0250	<20	1050	698	1748	320
	7/16/2023	0.50		-	-	<20	118	108	226	-
	7/16/2023	1.00	in-situ	-	-	<20	<25	<50	<95	-
B7	6/23/2023	Surface	excavate	<0.0250	<0.0250	<20	330	266	596	447
	7/16/2023	1.00	in-situ	-	-	<20	54.3	<50	54.3	-
B8	6/23/2023	Surface	excavate	0.0328	<0.0250	<20	190	256	446	46.6
	7/16/2023	0.50		-	-	<20	121	134	255	-
	7/16/2023	1.00	in-situ	-	-	<20	<25	<50	<95	-
B9	6/23/2023	Surface	excavate	0.7556	<0.0250	<20	188	179	367	35.9
	7/16/2023	0.50	in-situ	-	-	<20	41.9	<50	41.9	-
B10	6/23/2023	0.50	excavate	<0.0250	<0.0250	<20	74.9	71.8	146.7	<20
		1.00	in-situ	<0.0250	<0.0250	<20	63.1	<20	63.1	<20
		2.00		<0.0250	<0.0250	<20	<50	<20	<80	<20
B11	6/23/2023	Surface	excavate	0.8479	<0.0250	<20	202	148	350	<20
	7/16/2023	0.50		-	-	<20	133	111	244	-
	7/16/2023	1.00	in-situ	-	-	<20	<25	<50	<95	-

"--" = Not Analyzed

AEA #

Table 3b:  
Summary of Confirmation Sample Results

Frontier Field Services  
MAL-Blackcat 8" Poly Line

Sample ID	Sample Date	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl-
		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
NMOCD Closure		50	10				100	600
CS1	8/22/2023	<0.300	<0.050	<10	122	24.9	146.9	176
	9/6/2023	-	-	<10	<10	<10	<30	-
CS2	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	64
CS3	8/22/2023	<0.300	<0.050	<10	569	138	707	496
	9/6/2023	-	-	<10	<10	<10	<30	-
CS4	8/22/2023	<0.300	<0.050	<10	39.2	12.9	52.1	80
CS5	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	16
CS6	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	16
CS7	8/22/2023	<0.300	<0.050	<10	13.4	<10	13.4	32
CS8	8/22/2023	<0.300	<0.050	<10	692	187	879	704
	9/6/2023	-	-	<10	<10	<10	<30	32
CS9	8/22/2023	<0.300	<0.050	<10	841	217	1058	640
	9/6/2023	-	-	<10	<10	<10	<30	32
CS10	8/22/2023	<0.300	<0.050	<10	757	196	953	640
	9/6/2023	-	-	<10	<10	<10	<30	16
CS11	8/22/2023	<0.300	<0.050	<10	806	222	1028	720
	9/6/2023	-	-	<10	<10	<10	<30	<16
CS12	8/22/2023	<0.300	<0.050	<10	688	180	868	672
	9/6/2023	-	-	<10	<10	<10	<30	<16
CS13	8/22/2023	<0.300	<0.050	<10	804	238	1042	640
	9/6/2023	-	-	<10	<10	<10	<30	16
CS14	8/22/2023	<0.300	<0.050	<10	832	249	1081	688
	9/6/2023	-	-	<10	<10	<10	<30	32
CS15	8/22/2023	<0.300	<0.050	<10	722	219	941	576
	9/6/2023	-	-	<10	<10	<10	<30	-
CS16	8/22/2023	<0.300	<0.050	<10	600	273	873	336
	9/6/2023	-	-	<10	<10	<10	<30	-
CS17	8/22/2023	<0.300	<0.050	<10	542	238	780	368
	9/6/2023	-	-	<10	<10	<10	<30	-
CS18	8/22/2023	<0.300	<0.050	<10	456	195	651	336
	9/6/2023	-	-	<10	<10	<10	<30	-
CS19	8/22/2023	<0.300	<0.050	<10	452	186	638	368
	9/6/2023	-	-	<10	<10	<10	<30	-
CS20	8/22/2023	<0.300	<0.050	<10	446	193	639	192
	9/6/2023	-	-	<10	<10	<10	<30	-

Table 3b:  
Summary of Confirmation Sample Results

Frontier Field Services  
MAL-Blackcat 8" Poly Line

CS21	8/22/2023	<0.300	<0.050	<10	370	173	543	176
	9/6/2023	-	-	<10	<10	<10	<30	-
CS22	8/22/2023	<0.300	<0.050	<10	500	219	719	192
	9/6/2023	-	-	<10	<10	<10	<30	-
CS23	8/22/2023	<0.300	<0.050	<10	579	241	820	224
	9/6/2023	-	-	<10	<10	<10	<30	-
CS24	8/22/2023	<0.300	<0.050	<10	709	334	1043	256
	9/6/2023	-	-	<10	<10	<10	<30	-
CS25	8/22/2023	<0.300	<0.050	<10	426	214	640	192
	9/6/2023	-	-	-	65.4	10.4	75.8	-
CS26	8/22/2023	<0.300	<0.050	<10	768	379	1147	160
	9/6/2023	-	-	<10	82.8	16.3	99.1	-
CS27	8/22/2023	<0.300	<0.050	<10	525	274	799	160
	9/6/2023	-	-	<10	76.8	16.6	93.4	-
CS28	8/22/2023	<0.300	<0.050	<10	419	216	635	208
	9/6/2023	-	-	<10	91.3	20	111.3	-
	9/13/2023	-	-	<10	<10	<10	<30	-
CS29	8/22/2023	<0.300	<0.050	<10	419	211	630	112
	9/6/2023	-	-	<10	105	23.1	128.1	-
	9/13/2023	-	-	<10	<10	<10	<30	-
CS30	8/22/2023	<0.300	<0.050	<10	334	177	511	96
	9/6/2023	-	-	<10	105	23.9	128.9	-
	9/13/2023	-	-	<10	<10	<10	<30	-
CS31	8/22/2023	<0.300	<0.050	<10	167	92.5	259.5	32
	9/6/2023	-	-	<10	98.3	23	121.3	-
	9/13/2023	-	-	<10	<10	<10	<30	-
CS32	8/22/2023	<0.300	<0.050	<10	176	88.7	264.7	48
	9/6/2023	-	-	<10	111	26.5	137.5	-
	9/13/2023	-	-	<10	<10	<10	<30	-
CS33	8/22/2023	<0.300	<0.050	<10	207	80.1	287.1	80
	9/6/2023	-	-	<10	<10	<10	<30	-
CS34	8/22/2023	<0.300	<0.050	<10	149	59.8	208.8	48
	9/6/2023	-	-	<10	<10	<10	<30	-
CS35	8/22/2023	<0.300	<0.050	<10	136	61.4	197.4	80
	9/6/2023	-	-	<10	<10	<10	<30	-
CS36	8/22/2023	<0.300	<0.050	<10	201	81.7	282.7	176
	9/6/2023	-	-	<10	<10	<10	<30	-
CS37	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	96
CS38	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	80
CS39	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	112
CS40	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	80

Table 3b:  
Summary of Confirmation Sample Results

Frontier Field Services  
MAL-Blackcat 8" Poly Line

CS41	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	128
CS42	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	144
CS43	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	112
CS44	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	96
CS45	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	160
CS46	8/22/2023	<0.300	<0.050	<10	473	132	605	592
	9/6/2023	-	-	<10	<10	<10	<30	-
CS47	8/22/2023	<0.300	<0.050	<10	469	147	616	736
	9/6/2023	-	-	<10	<10	<10	<30	16
CS48	8/22/2023	<0.300	<0.050	<10	373	128	501	736
	9/6/2023	-	-	<10	<10	<10	<30	16
CS49	8/22/2023	<0.300	<0.050	<10	27.5	28.1	55.6	144
CS50	8/22/2023	<0.300	<0.050	<10	27.2	31.1	58.3	160
CS51	8/22/2023	<0.300	<0.050	<10	31.3	15.9	47.2	128
CS52	8/22/2023	<0.300	<0.050	<10	62.6	26	88.6	128
SW1	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	96
SW2	8/22/2023	<0.300	<0.050	<10	22.1	<10	22.1	48
SW3	8/22/2023	<0.300	<0.050	<10	51.7	<10	51.7	96
SW4	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	80
SW5	8/22/2023	<0.300	<0.050	<10	<10	<10	<30	<16
SW6	8/22/2023	<0.300	<0.050	28.6	1860	387	2275.6	1440
	9/6/2023	-	-	<10	<10	<10	<30	32
SW7	8/22/2023	<0.300	<0.050	<10	13.8	<10	13.8	80
SW8	8/22/2023	3.84	<0.050	219	3100	612	3931	816
	9/6/2023	-	-	<10	<10	<10	<30	16
SW9	8/22/2023	<0.300	<0.050	<10	213	69.1	282.1	32
	9/6/2023	-	-	<10	<10	<10	<30	-

Table 3b:  
Summary of Confirmation Sample Results

Frontier Field Services  
MAL-Blackcat 8" Poly Line

SW10	8/22/2023	<0.300	<0.050	87.3	2490	523	3100.3	1260
	9/6/2023	-	-	<10	<10	<10	<30	16
SW11	8/22/2023	<0.300	<0.050	<10	33.3	16.4	49.7	160
SW12	8/22/2023	<0.300	<0.050	<10	80.4	34.7	115.1	224
	9/6/2023	-	-	<10	63.1	14.2	77.3	-
SW13	8/22/2023	<0.300	<0.050	<10	91.9	50.5	142.4	176
	9/6/2023	-	-	<10	32.1	<10	32.1	-
SW14	8/22/2023	<0.300	<0.050	<10	124.3	54.3	178.6	208
	9/6/2023	-	-	<10	<10	<10	<30	-
SW15	8/22/2023	<0.300	<0.050	<10	213	95.4	308.4	256
	9/6/2023	-	-	<10	<10	<10	<30	-
SW16	8/22/2023	<0.300	<0.050	<10	178	73.9	251.9	240
	9/6/2023	-	-	<10	<10	<10	<30	-
SW17	8/22/2023	<0.300	<0.050	<10	176	116	292	48
	9/6/2023	-	-	<10	<10	<10	<30	-
SW18	8/22/2023	<0.300	<0.050	<10	160	104	264	32
	9/6/2023	-	-	<10	<10	<10	<30	-
SW19	8/22/2023	<0.300	<0.050	<10	117	66.2	183.2	64
	9/6/2023	-	-	<10	<10	<10	<30	-
SW20	8/22/2023	<0.300	<0.050	<10	809	474	1283	32
	9/6/2023	-	-	<10	<10	<10	<30	-
SW21	8/22/2023	<0.300	<0.050	<10	86.2	40	126.2	48
	9/6/2023	-	-	<10	<10	<10	<30	-
SW22	8/22/2023	<0.300	<0.050	<10	91	47.2	138.2	48
	9/6/2023	-	-	<10	<10	<10	<30	-
SW23	8/22/2023	<0.300	<0.050	<10	94.9	42	136.9	48
	9/6/2023	-	-	<10	<10	<10	<30	-
SW24	8/22/2023	<0.300	<0.050	<10	94.8	64.4	159.2	32
	9/6/2023	-	-	<10	<10	<10	<30	-

# APPENDIX A FORMS C141

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	nAPP2315350925
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Frontier Field Services, LLC	OGRID	221115
Contact Name	Lupe Carrasco	Contact Telephone	575-725-0787
Contact email	gcarrasco@durangomidstream.com	Incident # (assigned by OCD)	
Contact mailing address	47 Conoco Rd. Maljamar, NM 88264		

### Location of Release Source

Latitude 32.82442 Longitude -104.152701  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MAL - Blackcat 8" Poly Line	Site Type	Pipeline
Date Release Discovered	5/29/23	API# (if applicable)	

Unit Letter	Section	Township	Range	County
D	23	17S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: COG Operating LLC)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 11	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 158.68	Volume Recovered (Mcf) 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release  
2" poly vent blowout due to high pressure threshold

Incident ID	nAPP2315350925
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?          
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?          	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lupe Carrasco</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u><i>Lupe Carrasco</i></u>	Date: <u>6/2/23</u>
email: <u>gcarrasco@durangomidstream.com</u>	Telephone: <u>575-725-0787</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	

Incident ID	nAPP2315350925
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

Incident ID	nAPP2315350925
District RP	
Facility ID	
Application ID	

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

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist  
Signature: *Lupe Carrasco* Date: 10/3/23  
email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

**OCD Only**

Received by: Shelly Wells Date: 10/3/2023

Incident ID	nAPP2315350925
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Lupe Carrasco Title: Sr. Environmental Specialist  
Signature: Lupe Carrasco Date: 10/3/23  
email: gcarrasco@durangomidstream.com Telephone: 575-725-0787

### OCD Only

Received by: Shelly Wells Date: 10/3/2023

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

Closure Approved by: Ashley Maxwell Date: 11/29/2023  
Printed Name: Ashley Maxwell Title: Environmental Specialist

Gas Release Volume Calculator		
Date:	5/29/2023	
Site or Line Name:	MAL-Blackcat 8" Poly Line	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	121.2	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	30.00	minutes
Actual Temperature:	89.3	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	
<b>Constants</b>		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - Actual Conditions	20.33	MACF
Volume of Gas - Standard Conditions	158.68	MSCF
<b>Notes</b>		
Entered by user		
Calculated Value		
Constant		

Note:



## Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	5/29/2023						
Site or Line Name:	MAL-Blackcat 8" Poly Line						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25				0	0.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravelly Sand	0.26	80	71.5	0.0415	237.38	11.00	Gravelly Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X	0	0	0	0	0.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

# APPENDIX B

## NMOSE WELLS REPORT



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 579308.75      Northing (Y): 3632140.29      Radius: 1200

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

9/19/23 11:21 PM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Average Depth to Water:	58 feet
Minimum Depth:	58 feet
Maximum Depth:	58 feet

**UTMNAD83 Radius Search (in meters):**

**Radius:** 2500

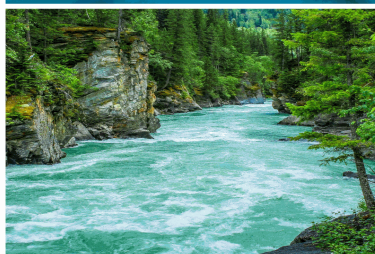
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

# APPENDIX C

## LABORATORY ANALYTICAL RESULTS

Report to:  
Austin Weyant



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat 8"

Work Order: E306199

Job Number: 20071-0001

Received: 6/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/30/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/30/23

Austin Weyant  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat 8"  
Workorder: E306199  
Date Received: 6/26/2023 7:00:00AM

Austin Weyant,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/26/2023 7:00:00AM, under the Project Name: Blackcat 8".

The analytical test results summarized in this report with the Project Name: Blackcat 8" apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
B1-0.5'	6
B1-1'	7
B1-2'	8
B2-0.5'	9
B2-1'	10
B2-2'	11
B3-0.5'	12
B4-Surface	13
B5-Surface	14
B6-Surface	15
B7-Surface	16
B8-Surface	17
B9-Surface	18
B10-0.5'	19
B10-1'	20
B10-2'	21
B11-Surface	22
QC Summary Data	23
QC - Volatile Organics by EPA 8021B	23
QC - Nonhalogenated Organics by EPA 8015D - GRO	24

## Table of Contents (continued)

QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	25
QC - Anions by EPA 300.0/9056A	26
Definitions and Notes	27
Chain of Custody etc.	28

## Sample Summary

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat 8" Project Number: 20071-0001 Project Manager: Austin Weyant	Reported: 06/30/23 11:31
--	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B1-0.5'	E306199-01A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B1-1'	E306199-02A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B1-2'	E306199-03A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B2-0.5'	E306199-04A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B2-1'	E306199-05A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B2-2'	E306199-06A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B3-0.5'	E306199-07A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B4-Surface	E306199-08A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B5-Surface	E306199-09A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B6-Surface	E306199-10A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B7-Surface	E306199-11A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B8-Surface	E306199-12A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B9-Surface	E306199-13A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B10-0.5'	E306199-14A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B10-1'	E306199-15A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B10-2'	E306199-16A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.
B11-Surface	E306199-17A	Soil	06/23/23	06/26/23	Glass Jar, 2 oz.



## Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat 8" Project Number: 20071-0001 Project Manager: Austin Weyant	<b>Reported:</b> 6/30/2023 11:31:51AM
--	---	--

B1-0.5'

E306199-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Benzene	ND	0.0500	2	06/26/23	06/27/23	
Ethylbenzene	22.8	0.0500	2	06/26/23	06/27/23	
Toluene	5.90	0.0500	2	06/26/23	06/27/23	
o-Xylene	16.3	0.0500	2	06/26/23	06/27/23	
p,m-Xylene	35.2	0.100	2	06/26/23	06/27/23	
Total Xylenes	51.5	0.0500	2	06/26/23	06/27/23	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Gasoline Range Organics (C6-C10)	560	40.0	2	06/26/23	06/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	122 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2326039	
Diesel Range Organics (C10-C28)	16400	2500	100	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	7210	5000	100	06/28/23	06/28/23	
Surrogate: n-Nonane	244 %	50-200		06/28/23	06/28/23	SS
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2326021	
Chloride	1250	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B1-1'

E306199-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/28/23	
Ethylbenzene	1.23	0.0250	1	06/26/23	06/28/23	
Toluene	0.192	0.0250	1	06/26/23	06/28/23	
o-Xylene	1.08	0.0250	1	06/26/23	06/28/23	
p,m-Xylene	2.46	0.0500	1	06/26/23	06/28/23	
Total Xylenes	3.53	0.0250	1	06/26/23	06/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	06/26/23	06/28/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	56.4	20.0	1	06/26/23	06/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/26/23	06/28/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	1890	125	5	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	752	250	5	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	388	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B1-2'

E306199-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	<b>0.294</b>	0.0250	1	06/26/23	06/27/23	
Toluene	<b>0.0419</b>	0.0250	1	06/26/23	06/27/23	
o-Xylene	<b>0.343</b>	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	<b>0.699</b>	0.0500	1	06/26/23	06/27/23	
Total Xylenes	<b>1.04</b>	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	<b>27.3</b>	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	<b>1240</b>	125	5	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	<b>504</b>	250	5	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	95.3 %	50-200		06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	<b>181</b>	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B2-0.5'

E306199-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	0.0637	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	0.0498	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	0.0558	0.0500	1	06/26/23	06/27/23	
Total Xylenes	0.106	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	475	25.0	1	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	238	50.0	1	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	90.1 %	50-200		06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	2770	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B2-1'

E306199-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	169	25.0	1	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	103	50.0	1	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	89.7 %	50-200		06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	269	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B2-2'

## E306199-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.2 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	605	25.0	1	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	299	50.0	1	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	92.3 %	50-200		06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	562	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B3-0.5'

E306199-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	0.0884	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	0.0667	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	0.153	0.0500	1	06/26/23	06/27/23	
Total Xylenes	0.220	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	921	25.0	1	06/28/23	06/28/23	
Oil Range Organics (C28-C36)	560	50.0	1	06/28/23	06/28/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		06/28/23	06/28/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	46.0	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B4-Surface

E306199-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	0.291	0.0250	1	06/26/23	06/27/23	
Toluene	0.0899	0.0250	1	06/26/23	06/27/23	
o-Xylene	0.189	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	0.419	0.0500	1	06/26/23	06/27/23	
Total Xylenes	0.608	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	496	25.0	1	06/28/23	06/30/23	
Oil Range Organics (C28-C36)	312	50.0	1	06/28/23	06/30/23	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		06/28/23	06/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	28.1	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B5-Surface

E306199-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	0.0799	0.0250	1	06/26/23	06/27/23	
Toluene	0.0429	0.0250	1	06/26/23	06/27/23	
o-Xylene	0.0369	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	0.0918	0.0500	1	06/26/23	06/27/23	
Total Xylenes	0.129	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.4 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2326039	
Diesel Range Organics (C10-C28)	114	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	99.6	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	88.8 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2326021	
Chloride	63.5	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B6-Surface

## E306199-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	<b>0.131</b>	0.0250	1	06/26/23	06/27/23	
Toluene	<b>0.0462</b>	0.0250	1	06/26/23	06/27/23	
o-Xylene	<b>0.0803</b>	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	<b>0.199</b>	0.0500	1	06/26/23	06/27/23	
Total Xylenes	<b>0.280</b>	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.8 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2326039	
Diesel Range Organics (C10-C28)	<b>1050</b>	50.0	2	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	<b>698</b>	100	2	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	98.3 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2326021	
Chloride	<b>320</b>	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B7-Surface

## E306199-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	330	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	266	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	447	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B8-Surface

## E306199-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	<b>0.0328</b>	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	<b>190</b>	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	<b>256</b>	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	<b>46.6</b>	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B9-Surface

## E306199-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	0.219	0.0250	1	06/26/23	06/27/23	
Toluene	0.0786	0.0250	1	06/26/23	06/27/23	
o-Xylene	0.133	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	0.325	0.0500	1	06/26/23	06/27/23	
Total Xylenes	0.458	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	188	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	179	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	35.9	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B10-0.5'

E306199-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	74.9	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	71.8	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	97.6 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	ND	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B10-1'

E306199-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.5 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	36.1	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	94.5 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	ND	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

B10-2'

E306199-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Benzene	ND	0.0250	1	06/26/23	06/27/23	
Ethylbenzene	ND	0.0250	1	06/26/23	06/27/23	
Toluene	ND	0.0250	1	06/26/23	06/27/23	
o-Xylene	ND	0.0250	1	06/26/23	06/27/23	
p,m-Xylene	ND	0.0500	1	06/26/23	06/27/23	
Total Xylenes	ND	0.0250	1	06/26/23	06/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.1 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2326001
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		06/26/23	06/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2326039
Diesel Range Organics (C10-C28)	ND	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>						
	90.2 %	50-200		06/28/23	06/29/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2326021
Chloride	ND	20.0	1	06/27/23	06/27/23	



## Sample Data

Atkins Engineering Associates Inc.  
2904 W. 2nd  
Roswell NM, 88201

Project Name: Blackcat 8"  
Project Number: 20071-0001  
Project Manager: Austin Weyant

**Reported:**  
6/30/2023 11:31:51AM

## B11-Surface

## E306199-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Benzene	ND	0.0250	1	06/26/23	06/28/23	
Ethylbenzene	<b>0.247</b>	0.0250	1	06/26/23	06/28/23	
Toluene	<b>0.0759</b>	0.0250	1	06/26/23	06/28/23	
o-Xylene	<b>0.153</b>	0.0250	1	06/26/23	06/28/23	
p,m-Xylene	<b>0.372</b>	0.0500	1	06/26/23	06/28/23	
Total Xylenes	<b>0.525</b>	0.0250	1	06/26/23	06/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>93.9 %</i>	<i>70-130</i>		<i>06/26/23</i>	<i>06/28/23</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2326001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/26/23	06/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>88.7 %</i>	<i>70-130</i>		<i>06/26/23</i>	<i>06/28/23</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2326039	
Diesel Range Organics (C10-C28)	<b>202</b>	25.0	1	06/28/23	06/29/23	
Oil Range Organics (C28-C36)	<b>148</b>	50.0	1	06/28/23	06/29/23	
<i>Surrogate: n-Nonane</i>	<i>91.8 %</i>	<i>50-200</i>		<i>06/28/23</i>	<i>06/29/23</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2326021	
Chloride	ND	20.0	1	06/27/23	06/27/23	



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat 8"	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	6/30/2023 11:31:51AM

## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2326001-BLK1)

Prepared: 06/26/23 Analyzed: 06/27/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.2	70-130			

## LCS (2326001-BS1)

Prepared: 06/26/23 Analyzed: 06/27/23

Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.08	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			

## Matrix Spike (2326001-MS1)

Source: E306199-07

Prepared: 06/26/23 Analyzed: 06/27/23

Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.96	0.0250	5.00	0.0884	97.4	61-133			
Toluene	4.99	0.0250	5.00	ND	99.9	61-130			
o-Xylene	4.95	0.0250	5.00	0.0667	97.6	63-131			
p,m-Xylene	10.1	0.0500	10.0	0.153	99.3	63-131			
Total Xylenes	15.0	0.0250	15.0	0.220	98.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			

## Matrix Spike Dup (2326001-MSD1)

Source: E306199-07

Prepared: 06/26/23 Analyzed: 06/27/23

Benzene	4.98	0.0250	5.00	ND	99.5	54-133	0.877	20	
Ethylbenzene	4.95	0.0250	5.00	0.0884	97.2	61-133	0.193	20	
Toluene	4.96	0.0250	5.00	ND	99.2	61-130	0.679	20	
o-Xylene	4.92	0.0250	5.00	0.0667	97.1	63-131	0.556	20	
p,m-Xylene	10.1	0.0500	10.0	0.153	99.0	63-131	0.298	20	
Total Xylenes	15.0	0.0250	15.0	0.220	98.4	63-131	0.383	20	
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			



QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat 8"	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	6/30/2023 11:31:51AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2326001-BLK1) Prepared: 06/26/23 Analyzed: 06/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS (2326001-BS2) Prepared: 06/26/23 Analyzed: 06/27/23

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.3	70-130			

Matrix Spike (2326001-MS2) Source: E306199-07 Prepared: 06/26/23 Analyzed: 06/27/23

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2326001-MSD2) Source: E306199-07 Prepared: 06/26/23 Analyzed: 06/27/23

Gasoline Range Organics (C6-C10)	53.4	20.0	50.0	ND	107	70-130	6.80	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat 8"	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	6/30/2023 11:31:51AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2326039-BLK1)

Prepared: 06/28/23 Analyzed: 06/28/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

## LCS (2326039-BS1)

Prepared: 06/28/23 Analyzed: 06/28/23

Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
Surrogate: n-Nonane	48.9		50.0		97.8	50-200			

## Matrix Spike (2326039-MS1)

Source: E306199-11

Prepared: 06/28/23 Analyzed: 06/28/23

Diesel Range Organics (C10-C28)	578	25.0	250	330	99.3	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

## Matrix Spike Dup (2326039-MSD1)

Source: E306199-11

Prepared: 06/28/23 Analyzed: 06/28/23

Diesel Range Organics (C10-C28)	647	25.0	250	330	127	38-132	11.3	20	
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			



QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat 8"	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Austin Weyant	6/30/2023 11:31:51AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2326021-BLK1)					Prepared: 06/27/23 Analyzed: 06/27/23				
Chloride	ND	20.0							
LCS (2326021-BS1)					Prepared: 06/27/23 Analyzed: 06/27/23				
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2326021-MS1)					Source: E306199-01		Prepared: 06/27/23 Analyzed: 06/27/23		
Chloride	1570	20.0	250	1250	126	80-120			M2
Matrix Spike Dup (2326021-MSD1)					Source: E306199-01		Prepared: 06/27/23 Analyzed: 06/27/23		
Chloride	1430	20.0	250	1250	70.6	80-120	9.33	20	M2

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat 8"	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Austin Weyant	06/30/23 11:31

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 2

Client: <u>Atkins Eng</u>					Bill To					Lab Use Only				TAT				EPA Program			
Project: <u>Blackcat 8<sup>th</sup></u>					Attention: <u>Atkins Eng</u>					Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>Austin Weyant</u>					Address:					<u>E306199</u>		<u>20071-0001</u>									
Address:					City, State, Zip					Analysis and Method											RCRA
City, State, Zip					Phone:					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						
Email:					Email:																
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																
	6-23-23	Soil	1	B1-0.5'	1	X	X	X					X								
				B1-1'	2																
				B1-2'	3																
				B2-0.5'	4																
				B2-1'	5																
				B2-2'	6																
				<del>B2</del> B3-0.5'	7																
				B4 - Surface	8																
				B5 - Surface	9																
				B6 - Surface	10																

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: \_\_\_\_\_

Relinquished by: (Signature) [Signature] Date 6-23-23 Time 1130

Received by: (Signature) [Signature] Date 6-23-23 Time 1130

Relinquished by: (Signature) [Signature] Date 6-23-23 Time 1645

Received by: (Signature) [Signature] Date 6-23-23 Time 1730

Relinquished by: (Signature) [Signature] Date 6-23-23 Time 2330

Received by: (Signature) [Signature] Date 6-23-23 Time 700

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA \_\_\_\_\_

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Project Information

## Chain of Custody

Page 2 of 2

Client: <u>Atkins Eng</u>				Bill To				Lab Use Only				TAT				EPA Program		
Project: <u>Blackcat 8"</u>				Attention: <u>Atkins</u>				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <u>Austin Weyant</u>				Address:				<u>E306199</u>		<u>20071-0001</u>								
Address:				City, State, Zip				Analysis and Method										RCRA
City, State, Zip				Phone:				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					
Phone:				Email:														
Email:																		
Report due by:																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
	6-23-23	Soil	1	B7 - Surface	11	X	X	X				X						
				B8 - Surface	12													
				B9 - Surface	13													
				B10 - Surface 0.5'	14													
				B10 - 1'	15													
				B10 - 2'	16													
				B11 - Surface	17													

## Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>[Signature]</u>	6-23-23	1130	<u>[Signature]</u>	6-23-23	1130	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	6-23-23	1645	<u>[Signature]</u>	6-23-23	1730	T1 T2 T3
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>[Signature]</u>	6-23-23	2330	<u>[Signature]</u>	6-26-23	700	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Envirotech Analytical Laboratory

Printed: 6/26/2023 2:57:52PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	06/26/23 07:00	Work Order ID:	E306199
Phone:	(575) 626-3993	Date Logged In:	06/26/23 08:15	Logged In By:	Alexa Michaels
Email:	austin@atkinseng.com	Due Date:	06/30/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled is missing on the COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

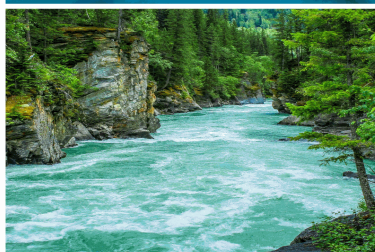
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Lynn Acosta



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat

Work Order: E307079

Job Number: 20071-0001

Received: 7/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/19/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/19/23

Lynn Acosta  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat  
Workorder: E307079  
Date Received: 7/18/2023 8:15:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/18/2023 8:15:00AM, under the Project Name: Blackcat.

The analytical test results summarized in this report with the Project Name: Blackcat apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
B4 - 0.5'	5
B5 - 0.5'	6
B6 - 0.5'	7
B7 - 0.5'	8
B8 - 0.5'	9
B9 - 0.5'	10
B11 - 0.5'	11
B3 - 1'	12
QC Summary Data	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
Definitions and Notes	15
Chain of Custody etc.	16

## Sample Summary

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 07/19/23 16:22
--	--	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B4 - 0.5'	E307079-01A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B5 - 0.5'	E307079-02A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B6 - 0.5'	E307079-03A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B7 - 0.5'	E307079-04A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B8 - 0.5'	E307079-05A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B9 - 0.5'	E307079-06A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B11 - 0.5'	E307079-07A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.
B3 - 1'	E307079-08A	Soil	07/16/23	07/18/23	Glass Jar, 2 oz.



## Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	<b>Reported:</b> 7/19/2023 4:22:01PM
--	--	---

**B4 - 0.5'**

**E307079-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.3 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	165	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	137	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	106 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B5 - 0.5'

E307079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.9 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	108 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B6 - 0.5'

E307079-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.2 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	118	25.0	1	07/18/23	07/19/23	
Oil Range Organics (C28-C36)	101	50.0	1	07/18/23	07/19/23	
Surrogate: n-Nonane	107 %	50-200		07/18/23	07/19/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B7 - 0.5'

E307079-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.5 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	54.3	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	110 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B8 - 0.5'

E307079-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.8 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	121	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	134	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	107 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B9 - 0.5'

E307079-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.4 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	41.9	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	102 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B11 - 0.5'

E307079-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.7 %	70-130		07/18/23	07/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	133	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	111	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	106 %	50-200		07/18/23	07/18/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/19/2023 4:22:01PM
--	--	----------------------------------

B3 - 1'

E307079-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2329015	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/18/23	07/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.4 %	70-130		07/18/23	07/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2329020	
Diesel Range Organics (C10-C28)	69.6	25.0	1	07/18/23	07/18/23	
Oil Range Organics (C28-C36)	50.7	50.0	1	07/18/23	07/18/23	
Surrogate: n-Nonane	108 %	50-200		07/18/23	07/18/23	



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/19/2023 4:22:01PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2329015-BLK1)

Prepared: 07/18/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.8	70-130			

## LCS (2329015-BS2)

Prepared: 07/18/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.8	70-130			

## Matrix Spike (2329015-MS2)

Source: E307077-02

Prepared: 07/18/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## Matrix Spike Dup (2329015-MSD2)

Source: E307077-02

Prepared: 07/18/23 Analyzed: 07/18/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.9	70-130	2.26	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.68		8.00		83.5	70-130			



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/19/2023 4:22:01PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2329020-BLK1)

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.9		50.0		112	50-200			

## LCS (2329020-BS1)

Prepared: 07/18/23 Analyzed: 07/18/23

Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

## Matrix Spike (2329020-MS1)

Source: E307079-03

Prepared: 07/18/23 Analyzed: 07/19/23

Diesel Range Organics (C10-C28)	335	25.0	250	118	86.8	38-132			
Surrogate: n-Nonane	47.5		50.0		94.9	50-200			

## Matrix Spike Dup (2329020-MSD1)

Source: E307079-03

Prepared: 07/18/23 Analyzed: 07/19/23

Diesel Range Organics (C10-C28)	408	25.0	250	118	116	38-132	19.7	20	
Surrogate: n-Nonane	53.8		50.0		108	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/19/23 16:22

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Envirotech Analytical Laboratory

Printed: 7/18/2023 10:18:21AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	07/18/23 08:15	Work Order ID:	E307079
Phone:	(575) 626-3993	Date Logged In:	07/18/23 08:31	Logged In By:	Caitlin Mars
Email:		Due Date:	07/20/23 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on COC per client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

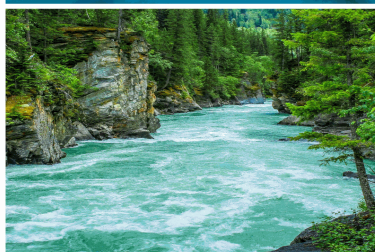
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Lynn Acosta



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat

Work Order: E307130

Job Number: 20071-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/26/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/26/23

Lynn Acosta  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat  
Workorder: E307130  
Date Received: 7/24/2023 5:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: Blackcat.

The analytical test results summarized in this report with the Project Name: Blackcat apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
B1-2.5'	5
B2-2.5'	6
QC Summary Data	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
Definitions and Notes	9
Chain of Custody etc.	10

Sample Summary

Atkins Engineering Associates Inc.	Project Name:	Blackcat	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/26/23 13:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B1-2.5'	E307130-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
B2-2.5'	E307130-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



## Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	<b>Reported:</b> 7/26/2023 1:57:33PM
--	--	---

### B1-2.5'

#### E307130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.7 %	70-130		07/24/23	07/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2330028	
Diesel Range Organics (C10-C28)	819	125	5	07/25/23	07/25/23	
Oil Range Organics (C28-C36)	317	250	5	07/25/23	07/25/23	
Surrogate: n-Nonane	98.6 %	50-200		07/25/23	07/25/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/26/2023 1:57:33PM
--	--	----------------------------------

B2-2.5'  
E307130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.1 %	70-130		07/24/23	07/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2330028	
Diesel Range Organics (C10-C28)	131	25.0	1	07/25/23	07/26/23	
Oil Range Organics (C28-C36)	68.6	50.0	1	07/25/23	07/26/23	
Surrogate: n-Nonane	90.0 %	50-200		07/25/23	07/26/23	

## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/26/2023 1:57:33PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## LCS (2330001-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

## Matrix Spike (2330001-MS2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

## Matrix Spike Dup (2330001-MSD2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/26/2023 1:57:33PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330028-BLK1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			

## LCS (2330028-BS1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

## Matrix Spike (2330028-MS1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

## Matrix Spike Dup (2330028-MSD1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.6	38-132	5.80	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/26/23 13:57

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

## Project Information

## Chain of Custody

[illegible]

## Envirotech Analytical Laboratory

Printed: 7/24/2023 9:10:31AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	07/24/23 05:30	Work Order ID:	E307130
Phone:	(575) 626-3993	Date Logged In:	07/24/23 06:36	Logged In By:	Alexa Michaels
Email:		Due Date:	07/26/23 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on the COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Lynn Acosta



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat

Work Order: E307129

Job Number: 20071-0001

Received: 7/24/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/26/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/26/23

Lynn Acosta  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat  
Workorder: E307129  
Date Received: 7/24/2023 5:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: Blackcat.

The analytical test results summarized in this report with the Project Name: Blackcat apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
B1-3'	5
B2-3'	6
QC Summary Data	7
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
Definitions and Notes	9
Chain of Custody etc.	10

Sample Summary

Atkins Engineering Associates Inc.	Project Name:	Blackcat	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/26/23 13:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B1-3'	E307129-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
B2-3'	E307129-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



## Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	<b>Reported:</b> 7/26/2023 1:56:00PM
--	--	---

**B1-3'**

**E307129-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2330001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.0 %	70-130		07/24/23	07/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2330028
Diesel Range Organics (C10-C28)	297	25.0	1	07/25/23	07/25/23	
Oil Range Organics (C28-C36)	111	50.0	1	07/25/23	07/25/23	
Surrogate: n-Nonane	90.4 %	50-200		07/25/23	07/25/23	



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/26/2023 1:56:00PM
--	--	----------------------------------

B2-3'

E307129-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.7 %	70-130		07/24/23	07/25/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2330028	
Diesel Range Organics (C10-C28)	74.9	25.0	1	07/25/23	07/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/25/23	
Surrogate: n-Nonane	98.5 %	50-200		07/25/23	07/25/23	



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/26/2023 1:56:00PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## LCS (2330001-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

## Matrix Spike (2330001-MS2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

## Matrix Spike Dup (2330001-MSD2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/26/2023 1:56:00PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330028-BLK1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	42.5		50.0		84.9	50-200			

## LCS (2330028-BS1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: <i>n</i> -Nonane	44.3		50.0		88.6	50-200			

## Matrix Spike (2330028-MS1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: <i>n</i> -Nonane	47.1		50.0		94.3	50-200			

## Matrix Spike Dup (2330028-MSD1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.6	38-132	5.80	20	
Surrogate: <i>n</i> -Nonane	51.0		50.0		102	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/26/23 13:56

- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: <u>Atkins</u>			Bill To			Lab Use Only				TAT			EPA Program				
Project: <u>Bluecat</u>			Attention: <u>Atkins</u>			Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>Lyn A. Acosta</u>			Address:			<u>E307129</u>		<u>20071-0001</u>				<u>X</u>					
Address:			City, State, Zip			Analysis and Method										RCRA	
City, State, Zip			Phone:													State	
Email:			Email:													NM	
Report due by:																Remarks	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						
	<u>7/21/23</u>	<u>Soil</u>	<u>1</u>	<u>B1-3'</u>	<u>1</u>	<u>X</u>	<u>X</u>										
	<u>1</u>	<u>1</u>	<u>1</u>	<u>B2-3'</u>	<u>2</u>	<u>X</u>	<u>1</u>										
Additional Instructions: <u>Prelims 3 results: Lyn@atkinseng.com</u>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Lyn A. Acosta</u>																	
Relinquished by: (Signature) <u>Lyn A. Acosta</u>		Date <u>7/21/23</u>	Time <u>1645</u>	Received by: (Signature) <u>Michelle Canale</u>		Date <u>7-21-23</u>	Time <u>1645</u>	Received on ice: <u>Y</u> N									
Relinquished by: (Signature) <u>Michelle Canale</u>		Date <u>7-22-23</u>	Time <u>1830</u>	Received by: (Signature) <u>Michelle Canale</u>		Date <u>7-24-23</u>	Time <u>5:30</u>	T1 _____ T2 _____ T3 _____									
Relinquished by: (Signature) _____		Date _____	Time _____	Received by: (Signature) _____		Date _____	Time _____	AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

## Envirotech Analytical Laboratory

Printed: 7/24/2023 9:07:03AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	07/24/23 05:30	Work Order ID:	E307129
Phone:	(575) 626-3993	Date Logged In:	07/24/23 06:34	Logged In By:	Alexa Michaels
Email:		Due Date:	07/26/23 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on the COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

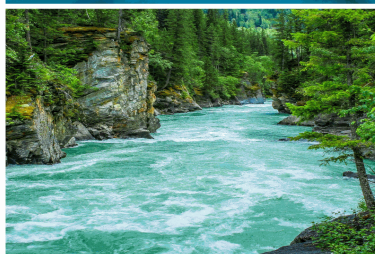
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Lynn Acosta



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat

Work Order: E307128

Job Number: 20071-0001

Received: 7/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/27/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/27/23

Lynn Acosta  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat  
Workorder: E307128  
Date Received: 7/24/2023 5:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: Blackcat.

The analytical test results summarized in this report with the Project Name: Blackcat apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
B1-4'	5
QC Summary Data	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	6
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	7
Definitions and Notes	8
Chain of Custody etc.	9

Sample Summary

Atkins Engineering Associates Inc.	Project Name:	Blackcat	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/27/23 13:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B1-4'	E307128-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
B2-4'	E307128-02A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.



Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	Reported: 7/27/2023 1:43:57PM
--	--	----------------------------------

B1-4'

E307128-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/25/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.4 %	70-130		07/24/23	07/25/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2330028	
Diesel Range Organics (C10-C28)	76.9	25.0	1	07/25/23	07/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/25/23	
Surrogate: n-Nonane	92.0 %	50-200		07/25/23	07/25/23	



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/27/2023 1:43:57PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## LCS (2330001-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

## Matrix Spike (2330001-MS2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

## Matrix Spike Dup (2330001-MSD2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/27/2023 1:43:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2330028-BLK1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			

LCS (2330028-BS1)					Prepared: 07/25/23 Analyzed: 07/25/23				
Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

Matrix Spike (2330028-MS1)					Source: E307092-06		Prepared: 07/25/23 Analyzed: 07/25/23		
Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

Matrix Spike Dup (2330028-MSD1)					Source: E307092-06		Prepared: 07/25/23 Analyzed: 07/25/23		
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.6	38-132	5.80	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/27/23 13:43

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Envirotech Analytical Laboratory

Printed: 7/24/2023 8:55:24AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	07/24/23 05:30	Work Order ID:	E307128
Phone:	(575) 626-3993	Date Logged In:	07/24/23 06:32	Logged In By:	Alexa Michaels
Email:		Due Date:	07/26/23 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Additional Instructions on COC : HOLD  
Time sampled not provided on the COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

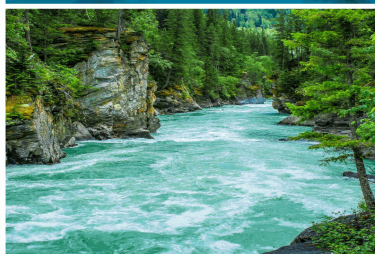
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Lynn Acosta



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Atkins Engineering Associates Inc.

Project Name: Blackcat

Work Order: E307127

Job Number: 20071-0001

Received: 7/24/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/27/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/27/23

Lynn Acosta  
2904 W. 2nd  
Roswell, NM 88201



Project Name: Blackcat  
Workorder: E307127  
Date Received: 7/24/2023 5:30:00AM

Lynn Acosta,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2023 5:30:00AM, under the Project Name: Blackcat.

The analytical test results summarized in this report with the Project Name: Blackcat apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
B1-5'	5
QC Summary Data	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	6
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	7
Definitions and Notes	8
Chain of Custody etc.	9

Sample Summary

Atkins Engineering Associates Inc.	Project Name:	Blackcat	Reported:
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/27/23 13:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B1-5'	E307127-01A	Soil	07/21/23	07/24/23	Glass Jar, 2 oz.
B2-5'	E307127-02A	Soil	07/24/23	07/24/23	Glass Jar, 2 oz.



## Sample Data

Atkins Engineering Associates Inc. 2904 W. 2nd Roswell NM, 88201	Project Name: Blackcat Project Number: 20071-0001 Project Manager: Lynn Acosta	<b>Reported:</b> 7/27/2023 1:41:09PM
--	--	---

### B1-5'

#### E307127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2330001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/23	07/24/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.9 %	70-130		07/24/23	07/24/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2330028	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/23	07/25/23	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/23	07/25/23	
Surrogate: n-Nonane	96.2 %	50-200		07/25/23	07/25/23	



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/27/2023 1:41:09PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330001-BLK1)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.66		8.00		83.2	70-130			

## LCS (2330001-BS2)

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.74		8.00		84.3	70-130			

## Matrix Spike (2330001-MS2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	39.2	20.0	50.0	ND	78.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130			

## Matrix Spike Dup (2330001-MSD2)

Source: E307117-01

Prepared: 07/24/23 Analyzed: 07/24/23

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	6.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.69		8.00		83.7	70-130			



## QC Summary Data

Atkins Engineering Associates Inc.	Project Name:	Blackcat	<b>Reported:</b>
2904 W. 2nd	Project Number:	20071-0001	
Roswell NM, 88201	Project Manager:	Lynn Acosta	7/27/2023 1:41:09PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2330028-BLK1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.5		50.0		84.9	50-200			

## LCS (2330028-BS1)

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.5	38-132			
Surrogate: n-Nonane	44.3		50.0		88.6	50-200			

## Matrix Spike (2330028-MS1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	256	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	47.1		50.0		94.3	50-200			

## Matrix Spike Dup (2330028-MSD1)

Source: E307092-06

Prepared: 07/25/23 Analyzed: 07/25/23

Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.6	38-132	5.80	20	
Surrogate: n-Nonane	51.0		50.0		102	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Atkins Engineering Associates Inc.	Project Name:	Blackcat	
2904 W. 2nd	Project Number:	20071-0001	Reported:
Roswell NM, 88201	Project Manager:	Lynn Acosta	07/27/23 13:41

- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



[illegible]

## Envirotech Analytical Laboratory

Printed: 7/24/2023 8:45:19AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Atkins Engineering Associates Inc.	Date Received:	07/24/23 05:30	Work Order ID:	E307127
Phone:	(575) 626-3993	Date Logged In:	07/24/23 06:29	Logged In By:	Alexa Michaels
Email:		Due Date:	07/26/23 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Additional Instructions on COC : HOLD  
Time sampled not provided on the COC

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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

---

August 29, 2023

AUSTIN WEYANT

ATKINS ENGINEERING

2904 W. 2ND STREET

ROSWELL, NM 88203

RE: BLACKCAT

Enclosed are the results of analyses for samples received by the laboratory on 08/23/23 13:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 1 (H234585-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	96.8	2.00	2.93	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	0.644	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	1.99	99.5	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.00	100	6.00	3.57	
Total BTEX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	122	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	24.9	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 2 (H234585-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	96.8	2.00	2.93	
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	0.644	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	1.99	99.5	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.00	100	6.00	3.57	
Total BTX	<0.300	0.300	08/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 56.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 3 (H234585-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	96.8	2.00	2.93		
Toluene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	0.644		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	1.99	99.5	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.00	100	6.00	3.57		
Total BTEx	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	569	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	138	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 4 (H234585-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.94	96.8	2.00	2.93	
Toluene*	<0.050	0.050	08/27/2023	ND	1.94	97.0	2.00	0.644	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	1.99	99.5	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.00	100	6.00	3.57	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	39.2	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	12.9	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 5 (H234585-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	1.94	96.8	2.00	2.93	
Toluene*	<0.050	0.050	08/27/2023	ND	1.94	97.0	2.00	0.644	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	1.99	99.5	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.00	100	6.00	3.57	
Total BTX	<0.300	0.300	08/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 6 (H234585-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 7 (H234585-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	13.4	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 8 (H234585-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/25/2023	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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	692	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	187	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 9 (H234585-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/25/2023	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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	841	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	217	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 10 (H234585-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/25/2023	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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	757	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	196	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 11 (H234585-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/25/2023	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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	806	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	222	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 12 (H234585-12)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	672	16.0	08/25/2023	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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	688	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	180	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 13 (H234585-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	804	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	238	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 14 (H234585-14)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	688	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	832	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	249	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 15 (H234585-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	722	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	219	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 16 (H234585-16)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	600	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	273	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 17 (H234585-17)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	542	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	238	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 18 (H234585-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	456	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	195	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 19 (H234585-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	452	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	186	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 20 (H234585-20)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/26/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	446	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	193	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 21 (H234585-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/27/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.23	104	6.00	0.0408	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	370	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	173	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 22 (H234585-22)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/27/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.23	104	6.00	0.0408	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 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	192	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	500	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	219	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 23 (H234585-23)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/27/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	579	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	241	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 24 (H234585-24)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/27/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.23	104	6.00	0.0408	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	709	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	334	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 25 (H234585-25)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.09	104	2.00	0.814	
Toluene*	<0.050	0.050	08/27/2023	ND	2.11	106	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.07	103	2.00	0.582	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.23	104	6.00	0.0408	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	426	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	214	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 26 (H234585-26)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	768	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	379	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 27 (H234585-27)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/25/2023	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	525	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	274	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 28 (H234585-28)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/25/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	419	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	216	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 29 (H234585-29)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/25/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	419	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	211	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 30 (H234585-30)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/25/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	334	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	177	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 31 (H234585-31)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	167	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	92.5	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 32 (H234585-32)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	181	90.7	200	1.04	
DRO >C10-C28*	176	10.0	08/25/2023	ND	173	86.5	200	7.90	
EXT DRO >C28-C36	88.7	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 33 (H234585-33)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	207	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	80.1	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 34 (H234585-34)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	149	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	59.8	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 35 (H234585-35)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	136	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	61.4	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 36 (H234585-36)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	201	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	81.7	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 66.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 37 (H234585-37)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 38 (H234585-38)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 39 (H234585-39)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 40 (H234585-40)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 41 (H234585-41)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 42 (H234585-42)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 43 (H234585-43)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 44 (H234585-44)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTEx	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 45 (H234585-45)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2023	ND	2.13	107	2.00	12.4	
Toluene*	<0.050	0.050	08/27/2023	ND	2.15	107	2.00	12.6	
Ethylbenzene*	<0.050	0.050	08/27/2023	ND	2.10	105	2.00	12.9	
Total Xylenes*	<0.150	0.150	08/27/2023	ND	6.32	105	6.00	12.3	
Total BTX	<0.300	0.300	08/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 46 (H234585-46)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	473	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	132	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 47 (H234585-47)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	469	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	147	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 63.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 48 (H234585-48)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	373	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	128	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 49 (H234585-49)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	27.5	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	28.1	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 60.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 50 (H234585-50)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	27.2	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	31.1	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 51 (H234585-51)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	31.3	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	15.9	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CS 52 (H234585-52)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	186	92.8	200	3.32	
DRO >C10-C28*	62.6	10.0	08/25/2023	ND	186	93.0	200	6.39	
EXT DRO >C28-C36	26.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 1 (H234585-53)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 2 (H234585-54)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	22.1	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 3 (H234585-55)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	51.7	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 4 (H234585-56)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 5 (H234585-57)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 6 (H234585-58)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	28.6	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	1860	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	387	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 7 (H234585-59)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	13.8	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 8 (H234585-60)**

BTEx 8021B			mg/kg					Analyzed By: MS		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8			
Toluene*	0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7			
Ethylbenzene*	0.681	0.050	08/28/2023	ND	2.14	107	2.00	16.3			
Total Xylenes*	3.11	0.150	08/28/2023	ND	6.42	107	6.00	16.1			
Total BTEX	3.84	0.300	08/28/2023	ND							

Surrogate: 4-Bromofluorobenzene (PID) 157 % 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	816	16.0	08/25/2023	ND	432	108	400	0.00			

TPH 8015M			mg/kg					Analyzed By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	219	10.0	08/25/2023	ND	179	89.3	200	5.92			
DRO >C10-C28*	3100	10.0	08/25/2023	ND	190	95.2	200	6.91			
EXT DRO >C28-C36	612	10.0	08/25/2023	ND							

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 9 (H234585-61)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2023	ND	2.03	101	2.00	15.8	
Toluene*	<0.050	0.050	08/28/2023	ND	2.05	103	2.00	15.7	
Ethylbenzene*	<0.050	0.050	08/28/2023	ND	2.14	107	2.00	16.3	
Total Xylenes*	<0.150	0.150	08/28/2023	ND	6.42	107	6.00	16.1	
Total BTEx	<0.300	0.300	08/28/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	213	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	69.1	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 10 (H234585-62)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	2.00	100	2.00	6.56	
Toluene*	<0.050	0.050	08/29/2023	ND	2.04	102	2.00	9.16	
Ethylbenzene*	0.156	0.050	08/29/2023	ND	2.10	105	2.00	7.57	
Total Xylenes*	1.07	0.150	08/29/2023	ND	6.32	105	6.00	6.38	
Total BTEx	1.22	0.300	08/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	08/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.3	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	2490	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	523	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 11 (H234585-63)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	2.00	100	2.00	6.56	
Toluene*	<0.050	0.050	08/29/2023	ND	2.04	102	2.00	9.16	
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	2.10	105	2.00	7.57	
Total Xylenes*	<0.150	0.150	08/29/2023	ND	6.32	105	6.00	6.38	
Total BTX	<0.300	0.300	08/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	33.3	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	16.4	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 12 (H234585-64)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	2.00	100	2.00	6.56	
Toluene*	<0.050	0.050	08/29/2023	ND	2.04	102	2.00	9.16	
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	2.10	105	2.00	7.57	
Total Xylenes*	<0.150	0.150	08/29/2023	ND	6.32	105	6.00	6.38	
Total BTX	<0.300	0.300	08/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	80.4	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	34.7	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 13 (H234585-65)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2023	ND	2.00	100	2.00	6.56	
Toluene*	<0.050	0.050	08/29/2023	ND	2.04	102	2.00	9.16	
Ethylbenzene*	<0.050	0.050	08/29/2023	ND	2.10	105	2.00	7.57	
Total Xylenes*	<0.150	0.150	08/29/2023	ND	6.32	105	6.00	6.38	
Total BTX	<0.300	0.300	08/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	91.9	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	50.5	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 14 (H234585-66)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	124	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	54.3	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 66.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 15 (H234585-67)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	213	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	95.4	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 66.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 16 (H234585-68)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	178	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	73.9	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 17 (H234585-69)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	176	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	116	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 18 (H234585-70)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTX	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	160	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	104	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 19 (H234585-71)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	117	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	66.2	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 20 (H234585-72)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	179	89.3	200	5.92	
DRO >C10-C28*	809	10.0	08/25/2023	ND	190	95.2	200	6.91	
EXT DRO >C28-C36	474	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 73.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 21 (H234585-73)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	86.2	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	40.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 22 (H234585-74)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03	
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69	
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85	
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39	
Total BTEx	<0.300	0.300	08/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	91.0	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	47.2	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 23 (H234585-75)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	94.9	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	42.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 08/23/2023  
Reported: 08/29/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 08/22/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CSW 24 (H234585-76)**

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	08/26/2023	ND	1.94	97.0	2.00	2.03		
Toluene*	<0.050	0.050	08/26/2023	ND	2.23	112	2.00	1.69		
Ethylbenzene*	<0.050	0.050	08/26/2023	ND	2.28	114	2.00	1.85		
Total Xylenes*	<0.150	0.150	08/26/2023	ND	6.77	113	6.00	2.39		
Total BTEx	<0.300	0.300	08/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	176	88.1	200	0.360	
DRO >C10-C28*	94.8	10.0	08/25/2023	ND	190	94.8	200	9.38	
EXT DRO >C28-C36	64.4	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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.

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

<b>Company Name:</b> Atkins Engineering <b>Project Manager:</b> Austin Wiegant <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> Baelcat <b>Project Location:</b> <b>Sampler Name:</b> Lynn Acosta		<b>P.O. #:</b> <b>Company:</b> Dorado Midstream <b>Attn:</b> Lupe Carrasco <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b>		<b>BILL TO</b>	
<b>Lab I.D.</b> H234588 <b>Sample I.D.</b>		<b>ANALYSIS REQUEST</b>	
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE TIME	
MATRIX PRESERV SAMPLING		BTX (8021) TPH (GRO/DRO/MRO) 80450 CI-	
CS1 CS2 CS3 CS4 CS5 CS6 CS7 CS8 CS9 CS10		X X X X X X X X X X	
Relinquished By: <i>[Signature]</i> Date: 10/3/23 Time: 1:34 Received By: <i>[Signature]</i> Date: 10/3/23 Time: 1:34		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Delivered By: (Circle One) UPS - Bus - Other:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
Observed Temp. °C: 28 Corrected Temp. °C:		CHECKED BY: (Initials) T-0	
REMARKS:		All Results are emailed. Please provide Email address:	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

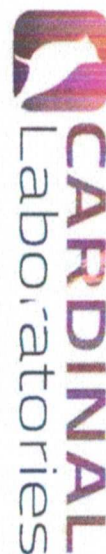
Company Name: <b>Atkins Engineering</b>		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: <b>Austin Liephant</b>		City:		State:		Zip:		Company: <b>Dorcas Midstream</b>									
Address:		City:		State:		Zip:		Attn: <b>Lupe Curasco</b>									
Phone #:		Fax #:		Project Owner:		City:		State:		Zip:							
Project Name: <b>Blockcat</b>		Project Location:		Fax #:		Phone #:											
Sample Name: <b>Lynn Arista</b>		FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE	
H334585		CS11		X		X		X		DATE		TIME		X		BTEX (8021)	
11		CS12		X		X		X		8/24/23				X		TPH (80150) (GRO/DRO/MRO)	
12		CS13		X		X		X						X		CI	
13		CS14		X		X		X									
14		CS15		X		X		X									
15		CS16		X		X		X									
16		CS17		X		X		X									
17		CS18		X		X		X									
18		CS19		X		X		X									
19		CS20		X		X		X									
20																	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.		Relinquished By: <b>Lupe Curasco</b>		Date: <b>8/24/23</b>		Received By: <b>Lupe Curasco</b>		Date: <b>8/24/23</b>		Time: <b>13:24</b>		Time: <b>13:24</b>		Time: <b>13:24</b>		Time: <b>13:24</b>	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition	
Sampler - UPS - Bus - Other:		-2.8				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		Observed Temp. °C	
FORM 000-03-0771123		† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com															



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Atticus Engineering</b>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <b>Arushin Ubayant</b>		City:		Company: <b>Durango Midstream</b>			
Address:		State:		Attn: <b>Lore Carrasco</b>			
City:		Zip:		Address:			
Phone #:		Fax #:		City:			
Project #:		Project Owner:		State:			
Project Name: <b>Blackcat</b>		City:		Zip:			
Project Location:		Phone #:					
Sampler Name: <b>Lynn Arceles</b>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D. <b>H234585</b>		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER	
Sample I.D.		WASTEWATER		SOIL		OIL	
21		X		SLUDGE		OTHER:	
22		X		ACID/BASE:		ICE / COOL	
23		X		OTHER:		DATE	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	
29		X		DATE		TIME	
30		X		DATE		TIME	
21		X		DATE		TIME	
22		X		DATE		TIME	
23		X		DATE		TIME	
24		X		DATE		TIME	
25		X		DATE		TIME	
26		X		DATE		TIME	
27		X		DATE		TIME	
28		X		DATE		TIME	



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Atkins Engineering</b>		P.O. #:		BILL TO								ANALYSIS REQUEST							
Project Manager: <b>Austin Wigan</b>		City:		State:		Zip:		Company: <b>Dorango Midstream</b>											
Address:		City:		State:		Zip:		Attn: <b>Lupe Carretero</b>											
Phone #:		City:		State:		Zip:		Address:											
Project #:		City:		State:		Zip:		Phone #:											
Project Name: <b>Blackcat</b>		City:		State:		Zip:		Fax #:											
Project Location:		City:		State:		Zip:		Phone #:											
Sampler Name: <b>Lynn Acosta</b>		City:		State:		Zip:		Fax #:											
FOR LAB USE ONLY		G/RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		MATRIX		PRESERV.		SAMPLING					
Lab I.D. <b>H2341585</b>		Sample I.D.		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:			
41		CS41		X		X		DATE		TIME		BTEx (8021)		X					
42		CS42		X		X		8/24/23				TPH 80150 (GRO/DRO/MRO)		X					
43		CS43		X		X						CI-		X					
44		CS44		X		X													
45		CS45		X		X													
46		CS46		X		X													
47		CS47		X		X													
48		CS48		X		X													
49		CS49		X		X													
50		CS50		X		X													
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies.</p>																			
Relinquished By: <b>[Signature]</b>		Date: <b>8/24/23</b>		Received By: <b>[Signature]</b>		Date: <b>8/24/23</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>			
Relinquished By: <b>[Signature]</b>		Date: <b>8/24/23</b>		Received By: <b>[Signature]</b>		Date: <b>8/24/23</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>		Time: <b>1:34</b>			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes No		Thermometer ID #140		Rush		Yes No		Corrected Temp. °C		Corrected Temp. °C			

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Atticus Engineering</u>		<b>P.O. #:</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> <u>Austin Weyant</u>		<b>Company:</b> <u>Orange Midstream</u>			
<b>Address:</b>		<b>Attn:</b> <u>Lupe Carrasco</u>			
<b>City:</b>	<b>State:</b>	<b>Zip:</b>	<b>Address:</b>		
<b>Phone #:</b>	<b>Fax #:</b>	<b>Project Owner:</b>	<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Project Name:</b> <u>Blackcat</u>			<b>Phone #:</b>		
<b>Project Location:</b>			<b>Fax #:</b>		
<b>Sampler Name:</b> <u>Lynn Acosta</u>					
<b>FOR LAB USE ONLY</b>					
<b>Lab I.D.</b>	<b>Sample I.D.</b>	<b>(G)RAB OR (C)OMP.</b>	<b># CONTAINERS</b>	<b>MATRIX</b>	<b>PRESERV.</b>
				<b>GROUNDWATER</b>	<b>SAMPLING</b>
				<b>WASTEWATER</b>	
				<b>SOIL</b>	
				<b>OIL</b>	
				<b>SLUDGE</b>	
				<b>OTHER:</b>	
				<b>ACID/BASE:</b>	
				<b>ICE / COOL</b>	
				<b>OTHER:</b>	
				<b>DATE</b>	<b>TIME</b>
<u>H2345-85</u>	<u>CS51</u>			<u>8/24/23</u>	
<u>51</u>	<u>CS52</u>				
<u>52</u>	<u>CSU1</u>				
<u>53</u>	<u>CSU2</u>				
<u>54</u>	<u>CSU3</u>				
<u>55</u>	<u>CSU4</u>				
<u>56</u>	<u>CSU5</u>				
<u>57</u>	<u>CSU6</u>				
<u>58</u>	<u>CSU7</u>				
<u>59</u>	<u>CSU8</u>				
<u>60</u>					
<b>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies.</b>					
<b>Relinquished By:</b> <u>[Signature]</u>		<b>Date:</b> <u>8/24/23</u>		<b>Received By:</b> <u>[Signature]</u>	
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>	
<b>Time:</b> <u>1334</u>		<b>Time:</b>		<b>Time:</b>	
<b>Observed Temp. °C</b> <u>-28</u>		<b>Sample Condition</b>		<b>CHECKED BY:</b> <u>[Signature]</u>	
<b>Corrected Temp. °C</b>		<b>Cool Intact</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>(Initials)</b>	
<b>Delivered By: (Circle One)</b>		<b>Turnaround Time:</b>		<b>Standard</b> <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/>	
<b>Sampler - UPS - Bus - Other:</b>		<b>Thermometer ID #140</b>		<b>Bacteria (only) Sample Condition</b>	
		<b>Correction Factor 0°C</b>		<b>Cool Intact</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	
				<b>Observed Temp. °C</b>	
				<b>Corrected Temp. °C</b>	

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Atkins Engineering <b>Project Manager:</b> Austin Weyant <b>Address:</b> <b>City:</b> State: Zip: <b>Phone #:</b> Fax #: <b>Project #:</b> Project Owner: <b>Project Name:</b> Blackcat <b>Project Location:</b> <b>Sampler Name:</b> Lynn Acosta <b>FOR LAB USE ONLY</b>		<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Durango Midstream <b>Attn:</b> Luge Carrasco <b>Address:</b> <b>City:</b> State: Zip: <b>Phone #:</b> Fax #: <b>Matrix:</b> MATRIX PRESERV. SAMPLING		<b>ANALYSIS REQUEST</b>	
<b>Lab I.D.</b> H234585 61 62 63 64 65 66 67 68 69 70	<b>Sample I.D.</b> CSW 9 CSW 10 CSW 11 CSW 12 CSW 13 CSW 14 CSW 15 CSW 16 CSW 17 CSW 18	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	BTEX (8021) TPH 8015D: (GRO/DRO/mro) CI	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated remedy.					
<b>Relinquished By:</b> [Signature] <b>Date:</b> 8/23/23 <b>Received By:</b> [Signature] <b>Date:</b> 8/23/23		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>Remarks:</b> All Results are emailed. Please provide Email address:			
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> -2.8 <b>Corrected Temp. °C</b>	<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Turnaround Time:</b> Thermometer ID #140 Correction Factor 0°C	<b>Standard</b> <input checked="" type="checkbox"/> <b>RUSH</b> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Atkins Engineering</b>		P.O. #:		BILL TO		ANALYSIS REQUEST		
Project Manager: <b>Austin Ueyant</b>		Company: <b>Orange Midstream</b>						
Address:		Attn: <b>Lupe Carrasco</b>						
City:		Address:						
Phone #:		City:						
Fax #:		State:						
Project #:		Zip:						
Project Name: <b>Blackcat</b>		Phone #:						
Project Location:		Fax #:						
Sampler Name: <b>Lynn Austin</b>								
FOR LAB USE ONLY								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	MATRIX	PRESERV	SAMPLING
<b>H234585</b>								
71	CSW 19							
22	CSW 20							
73	CSW 21							
74	CSW 22							
75	CSW 23							
76	CSW 24							
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96								
97								
98								
99								
100								
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedy. No other remedies.		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:				
Relinquished By: <b>[Signature]</b>		Date: <b>8/23/23</b>		Received By: <b>[Signature]</b>				
Time: <b>1:34</b>		Date: <b>8/23/23</b>		Received By: <b>[Signature]</b>				
Relinquished By:		Time:		REMARKS:				
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:		Corrected Temp. °C		<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <b>Standard</b>		
				<input type="checkbox"/> No <input type="checkbox"/> Yes		Bacteria (only) Sample Condition		
				<input type="checkbox"/> No <input type="checkbox"/> Yes		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
				<input type="checkbox"/> No <input type="checkbox"/> Yes		Observed Temp. °C		
				<input type="checkbox"/> No <input type="checkbox"/> Yes		Corrected Temp. °C		



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

---

September 13, 2023

AUSTIN WEYANT

ATKINS ENGINEERING

2904 W. 2ND STREET

ROSWELL, NM 88203

RE: BLACKCAT

Enclosed are the results of analyses for samples received by the laboratory on 09/07/23 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 1 (H234855-01)**

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	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	79.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane	91.0 %	49.1-148							

**Sample ID: CS 3 (H234855-02)**

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	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	76.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	85.0 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 8 (H234855-03)**

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	09/08/2023	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	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	80.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	89.6 %	49.1-148							

**Sample ID: CS 9 (H234855-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/13/2023	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	93.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	103 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 10 (H234855-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	90.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.7 %	49.1-148							

**Sample ID: CS 11 (H234855-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/13/2023	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	81.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	87.9 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 12 (H234855-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/13/2023	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	79.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	86.9 %	49.1-148							

**Sample ID: CS 13 (H234855-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/13/2023	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	81.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	92.2 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 14 (H234855-09)**

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	09/08/2023	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	09/08/2023	ND	207	104	200	3.57	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	206	103	200	0.00339	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	95.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	107 %	49.1-148							

**Sample ID: CS 15 (H234855-10)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	85.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	93.2 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 16 (H234855-11)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	95.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	106 %	49.1-148							

**Sample ID: CS 17 (H234855-12)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	92.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	104 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 18 (H234855-13)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	93.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	103 %	49.1-148							

**Sample ID: CS 19 (H234855-14)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	92.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	102 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 20 (H234855-15)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	88.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.2 %	49.1-148							

**Sample ID: CS 21 (H234855-16)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	90.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.3 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 22 (H234855-17)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	71.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	79.9 %	49.1-148							

**Sample ID: CS 23 (H234855-18)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	75.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	79.6 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 24 (H234855-19)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	94.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	104 %	49.1-148							

**Sample ID: CS 25 (H234855-20)**

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	09/08/2023	ND	217	108	200	4.05	
<b>DRO &gt;C10-C28*</b>	<b>65.4</b>	10.0	09/08/2023	ND	213	106	200	8.10	
<b>EXT DRO &gt;C28-C36</b>	<b>10.4</b>	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	89.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	93.9 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 26 (H234855-21)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	82.8	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	16.3	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	83.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	90.9 %	49.1-148							

**Sample ID: CS 27 (H234855-22)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	76.8	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	16.6	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	91.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.7 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 28 (H234855-23)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	91.3	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	20.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	91.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.6 %	49.1-148							

**Sample ID: CS 29 (H234855-24)**

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	09/08/2023	ND	217	108	200	4.05	
<b>DRO &gt;C10-C28*</b>	<b>105</b>	10.0	09/08/2023	ND	213	106	200	8.10	
<b>EXT DRO &gt;C28-C36</b>	<b>23.1</b>	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	89.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	97.9 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 30 (H234855-25)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	105	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	23.9	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	91.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.8 %	49.1-148							

**Sample ID: CS 31 (H234855-26)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	98.3	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	23.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	80.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	86.7 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/07/2023  
 Reported: 09/13/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 32 (H234855-27)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	111	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	26.5	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	78.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	83.9 %	49.1-148							

**Sample ID: CS 33 (H234855-28)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	90.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane	99.3 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 34 (H234855-29)**

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	09/08/2023	ND	217	108	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	213	106	200	8.10	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	93.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	102 %	49.1-148							

**Sample ID: CS 35 (H234855-30)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	62.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	61.3 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/07/2023  
 Reported: 09/13/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 36 (H234855-31)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	71.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	73.2 %	49.1-148							

**Sample ID: CS 46 (H234855-32)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	70.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	70.9 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS 47 (H234855-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2023	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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	63.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	62.8 %	49.1-148							

**Sample ID: CS 48 (H234855-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2023	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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	55.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	57.2 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 6 (H234855-35)**

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	09/08/2023	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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	58.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	59.2 %	49.1-148							

**Sample ID: SW 8 (H234855-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2023	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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	57.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	57.1 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 9 (H234855-37)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	67.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	67.5 %	49.1-148							

**Sample ID: SW 10 (H234855-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/08/2023	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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	54.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	53.7 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/07/2023  
 Reported: 09/13/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 12 (H234855-39)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	63.1	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	14.2	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	56.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	58.4 %	49.1-148							

**Sample ID: SW 13 (H234855-40)**

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	09/08/2023	ND	191	95.3	200	0.420	
<b>DRO &gt;C10-C28*</b>	<b>32.1</b>	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	61.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	61.2 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 14 (H234855-41)**

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	09/09/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					
Surrogate: 1-Chlorooctane	72.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	81.1 %	49.1-148							

**Sample ID: SW 15 (H234855-42)**

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	09/09/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					
Surrogate: 1-Chlorooctane	98.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	112 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 16 (H234855-43)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	62.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	64.2 %	49.1-148							

**Sample ID: SW 17 (H234855-44)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	64.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	65.6 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/07/2023  
 Reported: 09/13/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 18 (H234855-45)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	59.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	61.4 %	49.1-148							

**Sample ID: SW 19 (H234855-46)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	63.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	62.1 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 20 (H234855-47)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	63.2 %	48.2-134							
Surrogate: 1-Chlorooctadecane	63.0 %	49.1-148							

**Sample ID: SW 21 (H234855-48)**

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	09/08/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	57.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	57.7 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/07/2023  
Reported: 09/13/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW 22 (H234855-49)**

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	09/09/2023	ND	191	95.3	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/09/2023	ND	200	100	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	09/09/2023	ND					
Surrogate: 1-Chlorooctane	113 %	48.2-134							
Surrogate: 1-Chlorooctadecane	124 %	49.1-148							

**Sample ID: SW 23 (H234855-50)**

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	09/08/2023	ND	203	101	200	4.06	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	227	114	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	91.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	103 %	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.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/07/2023  
 Reported: 09/13/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/06/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 24 (H234855-51)**

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	09/08/2023	ND	221	110	200	5.06	
DRO >C10-C28*	<10.0	10.0	09/08/2023	ND	233	116	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	09/08/2023	ND					
Surrogate: 1-Chlorooctane	78.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	91.2 %	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.

Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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.

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Atkins Engineering</b>		P.O. #:		BILL TO													
Project Manager: <b>Askin Uygur</b>		Company: <b>Omni Systems</b>		ANALYSIS REQUEST													
Address:		Attn: <b>Lore Carrasco</b>															
City:	State:	Zip:	Address:														
Phone #:	Fax #:	City:		State:		Zip:											
Project #:		Project Owner:		City:		State:		Zip:									
Project Name: <b>Blackcat</b>		Project Location:		Phone #:		Fax #:											
Sampler Name: <b>Lynn Acosta</b>		FOR LAB USE ONLY		PRESERV.		SAMPLING											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		MATRIX		DATE		TIME	
H234855		CS 16		X		X		X		X		X		X		X	
12		CS 17		X		X		X		X		X		X		X	
13		CS 18		X		X		X		X		X		X		X	
14		CS 19		X		X		X		X		X		X		X	
15		CS 20		X		X		X		X		X		X		X	
16		CS 21		X		X		X		X		X		X		X	
17		CS 22		X		X		X		X		X		X		X	
18		CS 23		X		X		X		X		X		X		X	
19		CS 24		X		X		X		X		X		X		X	
20		CS 25		X		X		X		X		X		X		X	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
Relinquished By: <b>Lynn Acosta</b>		Date: <b>9/7/23</b>		Received By: <b>Shelley Keene</b>		Date: <b>9/7/23</b>		Time: <b>1430</b>		Time: <b>1430</b>		Time: <b>1430</b>		Time: <b>1430</b>		Time: <b>1430</b>	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		[Signature]		Thermometer ID <b>444</b>		Rush <input checked="" type="checkbox"/>		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C		Corrected Temp. °C	
REMARKS: <b>* Customer requested changes. 9/7/23</b>																	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:																	
All Results are emailed. Please provide Email address:																	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>ATkins Engineering</b>		P.O. #:		BILL TO		ANALYSIS REQUEST																							
Project Manager: <b>Ashin Ustun</b>		City: _____ State: _____ Zip: _____		Company: <b>Shuang Wubai</b>																									
Address: _____		Phone #: _____ Fax #: _____		Attn: <b>Lupe Carrasco</b>																									
Project #: _____		Project Owner: _____		City: _____ State: _____ Zip: _____																									
Project Location: _____		Phone #: _____		Fax #: _____																									
Sample Name: <b>Lyma Arake</b>		FOR LAB USE ONLY		Matrix		PRESERV.		SAMPLING																					
Lab I.D. <b>H234855</b>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
21		CS26										X										X							
22		CS27																											
23		CS28																											
24		CS29																											
25		CS30																											
26		CS31																											
27		CS32																											
28		CS33																											
29		CS34																											
30		CS35																											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: **g X X** Date: **9/7/23** Received By: **Sheddiequary**

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_

Delivered By: (Circle One) Observed Temp. °C **-0.8** Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: **SLC** (initials)

Sampler - UPS - Bus - Other: Corrected Temp. °C \_\_\_\_\_

Turnaround Time: ☒ Standard ☐ Rush ☐ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C \_\_\_\_\_

Thermometer ID **444 #140** Correction Factor **None** **9/12/23**

REMARKS: **\* Customer requested changes. 9/7/23**

Verbal Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_

All Results are emailed. Please provide Email address: \_\_\_\_\_

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Atkins Engineering</b>		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: <b>Arslan Uygur</b>		P.O. #:			
Address:		Company: <b>Duany Puckett</b>			
City:		Attn: <b>Lupe Curasco</b>			
State:		Address:			
Zip:		City:			
Phone #:		State:			
Fax #:		Zip:			
Project #:		Phone #:			
Project Name: <b>Blackcut</b>		Fax #:			
Project Location:					
Sample Name: <b>Lynn Asker</b>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
<b>H234855</b>		GROUNDWATER	WASTEWATER		
<b>31</b>	<b>CS 36</b>	SOIL	OIL		
<b>33</b>	<b>CS 46</b>	SLUDGE	OTHER :		
<b>33</b>	<b>CS 47</b>	ACID/BASE:	ICE / COOL		
<b>34</b>	<b>CS 48</b>	OTHER :			
<b>35</b>	<b>SW 6</b>	DATE	TIME		
<b>36</b>	<b>SW 8</b>	<b>9/6/23</b>			
<b>37</b>	<b>SW 9</b>				
<b>38</b>	<b>SW 10</b>				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		MATRIX		PRESERV.	
Relinquished By: <b>g A A</b>		DATE		TIME	
Date: <b>9/7/23</b>		Time: <b>1430</b>			
Relinquished By: <b>g A A</b>		Received By: <b>Shedrick</b>			
Date: <b>9/7/23</b>		Time: <b>1430</b>			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		<b>-0.8</b>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Corrected Temp. °C				CHECKED BY: <b>8/12</b>	
Turnaround Time: <b>Standard</b>		Bacteria (only)		Sample Condition	
Thermometer ID <b>444444</b>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
Correction Factor <b>None</b>		Corrected Temp. °C			
REMARKS: <b>* Customer requested change.</b>					
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
All Results are emailed. Please provide Email address:					

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Atkins Engineering</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Ashin Ugyut</b>		P.O. #:			
Address:		Company: <b>Drury Madison</b>			
City:		Attn: <b>Lupe Carasco</b>			
State:		Address:			
Zip:		City:			
Phone #:		State:			
Fax #:		Zip:			
Project #:		Phone #:			
Project Name: <b>Blackcat</b>		Fax #:			
Project Location:					
Sampler Name: <b>Lupin Ash</b>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
<b>HT34855</b>				<input checked="" type="checkbox"/> SOIL	<input type="checkbox"/> OIL
<b>39</b>	<b>SW 12</b>			<input type="checkbox"/> SLUDGE	<input type="checkbox"/> OTHER :
<b>40</b>	<b>SW 13</b>			ACID/BASE:	ICE / COOL
<b>41</b>	<b>SW 14</b>			<input checked="" type="checkbox"/>	OTHER :
<b>42</b>	<b>SW 15</b>				DATE
<b>43</b>	<b>SW 16</b>				TIME
<b>44</b>	<b>SW 17</b>				
<b>45</b>	<b>SW 18</b>				
<b>46</b>	<b>SW 19</b>				
<b>47</b>	<b>SW 20</b>				
<b>48</b>	<b>SW 21</b>				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.					
Relinquished By: <b>Lupin Ash</b>		Date: <b>9/7/23</b>		Received By: <b>Speck</b>	
Relinquished By:		Time: <b>1430</b>		Received By:	
Date:		Time:		REMARKS: <b>* Customer requested change.</b>	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
FORM-000 R-3.1 06/07/20		CHECKED BY: <b>SE</b>		Turnaround Time: <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/>	
		Thermometer ID # <b>440</b>		Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Correction Factor <b>None</b>		Sample Condition <b>9/7/23</b>	
				Observed Temp. °C	
				Corrected Temp. °C	

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 15, 2023

AUSTIN WEYANT

ATKINS ENGINEERING

2904 W. 2ND STREET

ROSWELL, NM 88203

RE: BLACKCAT

Enclosed are the results of analyses for samples received by the laboratory on 09/14/23 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ATKINS ENGINEERING  
AUSTIN WEYANT  
2904 W. 2ND STREET  
ROSWELL NM, 88203  
Fax To:

Received: 09/14/2023  
Reported: 09/15/2023  
Project Name: BLACKCAT  
Project Number: NONE GIVEN  
Project Location: NONE GIVEN

Sampling Date: 09/13/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 28 (H234964-01)**

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	09/14/2023	ND	201	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	214	107	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	112 %	48.2-134							
Surrogate: 1-Chlorooctadecane	120 %	49.1-148							

**Sample ID: CS - 29 (H234964-02)**

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	09/14/2023	ND	201	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	214	107	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	108 %	48.2-134							
Surrogate: 1-Chlorooctadecane	115 %	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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/14/2023  
 Reported: 09/15/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/13/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 30 (H234964-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	201	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	214	107	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	94.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.9 %	49.1-148							

**Sample ID: CS - 31 (H234964-04)**

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	09/14/2023	ND	201	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	214	107	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	104 %	48.2-134							
Surrogate: 1-Chlorooctadecane	109 %	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

**Analytical Results For:**

ATKINS ENGINEERING  
 AUSTIN WEYANT  
 2904 W. 2ND STREET  
 ROSWELL NM, 88203  
 Fax To:

Received: 09/14/2023  
 Reported: 09/15/2023  
 Project Name: BLACKCAT  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 09/13/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 32 (H234964-05)**

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	09/14/2023	ND	201	101	200	1.47	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	214	107	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					
Surrogate: 1-Chlorooctane	108 %	48.2-134							
Surrogate: 1-Chlorooctadecane	114 %	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

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.

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



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

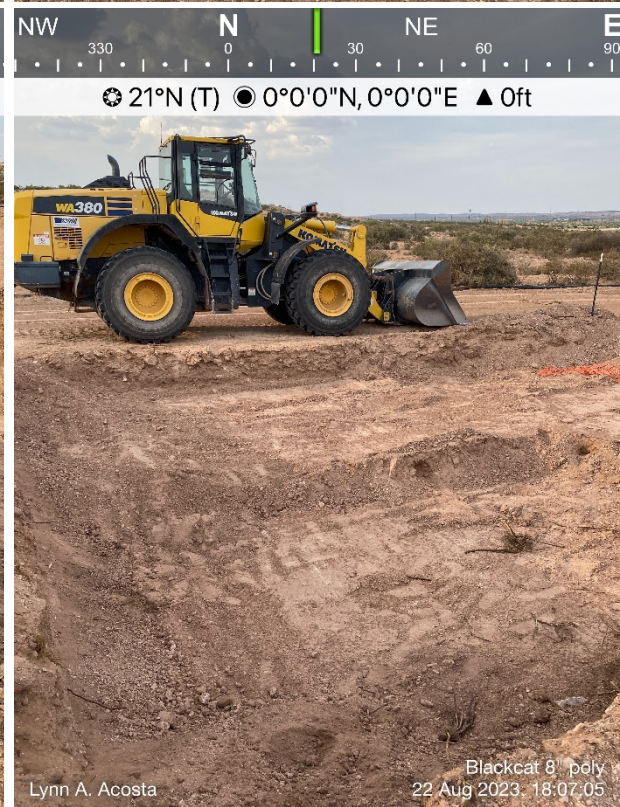
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

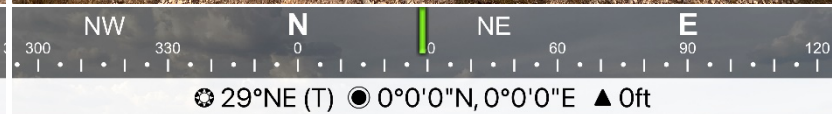
# APPENDIX D

## OPEN EXCAVATION LOG

## MAL - Blackcat 8" Poly Line Photo Log

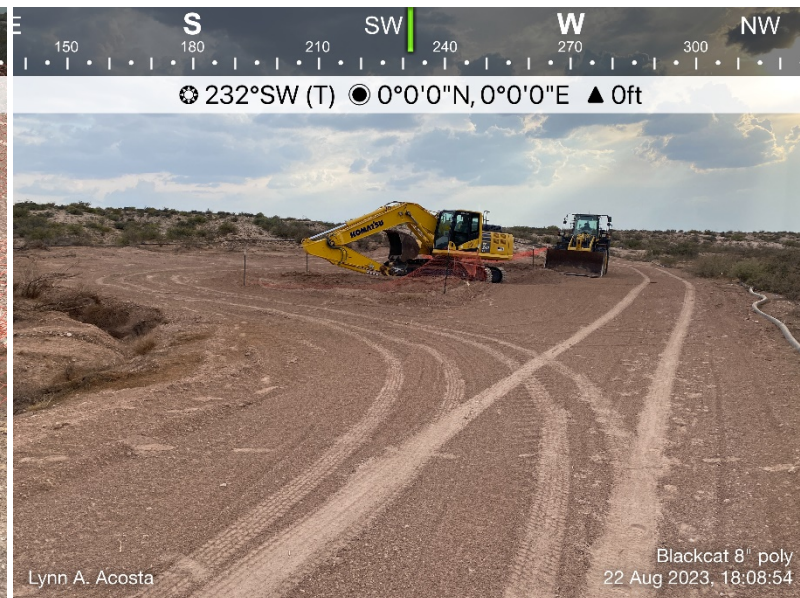
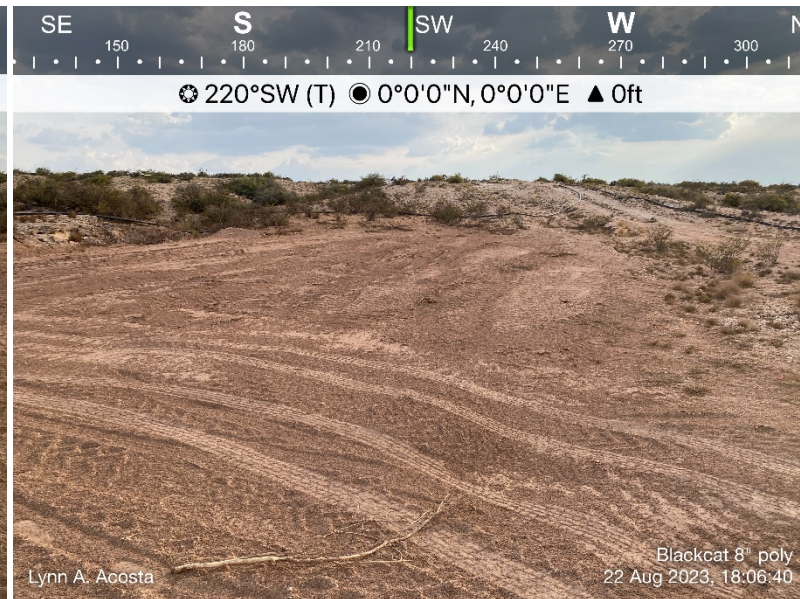












# APPENDIX E

## NMOCD CORRESPONDANCE

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Lynn Acosta](#)  
**Cc:** [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)  
**Subject:** RE: [EXTERNAL] 48-Hour Confirmation Sampling Notification - MAL - Blackcat 8" Poly Line (nAPP2315350925)  
**Date:** Friday, August 18, 2023 4:14:48 PM

---

Good afternoon Lynn,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

You have a good weekend too,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Lynn Acosta <[lynn@atkinseng.com](mailto:lynn@atkinseng.com)>  
**Sent:** Friday, August 18, 2023 3:42 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Austin Weyant <[austin@atkinseng.com](mailto:austin@atkinseng.com)>; Guadalupe Carrasco <[gcarrasco@durangomidstream.com](mailto:gcarrasco@durangomidstream.com)>  
**Subject:** [EXTERNAL] 48-Hour Confirmation Sampling Notification - MAL - Blackcat 8" Poly Line (nAPP2315350925)

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

Good Afternoon,

Atkins Engineering is notifying NMOCD that confirmation sampling will be conducted at the MAL - Blackcat 8" Poly Line (nAPP2315350925) on Tuesday August 22, 2023. Atkins Engineering personnel will be onsite approximately at 4:00 pm MST.

Please let me know if you have any questions/concerns.

Have a good weekend!

Lynn A. Acosta

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

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

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

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

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

CONDITIONS  
  
Action 271787

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 271787
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/29/2023