ENSOLUM

September 27, 2022

District 1
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Request
King Tut Federal Com 001H
Incident Numbers NAPP2127234076 and NAPP2216436957
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the King Tut Federal Com 001H. The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following two release events at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Numbers NAPP2127234076 and NAPP2216436957.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 30, Township 24 South, Range 32 East, in Lea County, New Mexico (32.194700° N, 103.718300°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

NAPP2127234076

On September 10, 2021, a low discharge pressure led to the discovery of a hole in the saltwater disposal (SWD) line. Approximately 14.5 barrels (bbls) of produced water were released into the adjacent pasture. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; however, there were no free-standing fluids to recover. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 24, 2021. The release was assigned Incident Number NAPP2127234076.

NAPP2216436957

On June 6, 2022, a transfer line ruptured causing a release of approximately 14.89 barrels (bbls) of produced water into the adjacent pasture. No released fluids were recovered. COG reported the release to the NMOCD on a Release Notification Form C-141 on June 13, 2022. The release was assigned Incident Number NAPP2216436957.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to determine application of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On September 15, 2022, borehole BH01 (New Mexico Office of the State Engineer (NMOSE) file number C-4665) was advanced to a depth of 120 feet bgs via air rotary drill rig. The borehole was located approximately 0.4 miles east of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period, groundwater was not observed and it was confirmed that groundwater beneath the Site is greater than 120 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 2.28 miles northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES

On October 4, 2021, site assessment activities were conducted to evaluate the September 10, 2021 release extent based on information provided on the Form C-141 and visual observations. Four preliminary assessment soil samples (SS01 through SS04) were collected within the release extent from a depth of 0.5 feet bgs. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The September 10, 2021 release extent and preliminary soil sample locations were mapped utilizing a handheld global positioning system (GPS) unit and are depicted on Figure 2.

On August 10, 2022, personnel visited the Site to evaluate the June 6, 2022 release extent. Five preliminary assessment soil samples (SS01 through SS05) were collected from a depth of 0.5 feet bgs.The preliminary samples were field screened as described above. The June 6, 2022 release extent and preliminary soil sample locations are depicted on Figure 2.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04, collected from release event NAPP2127234076, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standard. Laboratory analytical results for preliminary soil samples SS01 through SS05, collected from release event NAPP2216436957, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria.Results from soil samples SS04 and SS05 provided lateral delineation to the most stringent Table 1 Closure Criteria for the northern portion of release event NAPP2216436957. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix C. Based on visible staining in the release area, timing of the releases, and the unrecovered volume of produced water, additional delineation and excavation activities were warranted.

DELINEATION ACTIVITIES

On July 20, 2022, Ensolum personnel were at the Site to oversee more comprehensive delineation and excavation activities. Eight boreholes (BH01 and BH08) were advanced via hand-auger within and around the release extent for release event NAPP2127234076 and the southern extent of NAPP221643957, which overlapped. The boreholes were advanced to a depth of 4 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 1-foot to 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix A. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for delineation soil samples BH04/BH04A through BH08/BH08A indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement for samples collected in the top four feet of pasture areas. Because soil samples BH05/BH05A through BH08/BH08A were collected around the release extent, compliant results successfully defined the lateral extent. Laboratory analytical results for delineation soil samples BH01/BH01A through BH03/BH03A, advanced within the overlapping release footprint, indicated chloride concentrations exceeded the reclamation requirement. The sample collected at terminal depth (4 feet bgs) indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES

Impacted soil was excavated from the off-pad release area as indicated by visible staining and laboratory analytical results for the delineation soil samples BH01 through BH03. Excavation activities were performed to a depth of 4 feet bgs using track-mounted track hoe, hydrovac, and transport vehicle. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS13 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 2,626 square feet and a total of 400 cubic yards of impacted soil were removed. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

Laboratory analytical results for excavation soil samples FS01 through FS13, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation sidewall samples SW01 through SW06, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement.

CLOSURE REQUEST

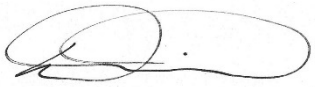
Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from two release events at the Site. Both releases were laterally delineated to the most stringent of Table 1 Closure Criteria. Soil was excavated to a depth of 4 feet bgs from an area off pad where the two releases overlapped. Laboratory analytical results for the excavation floor soil samples indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and excavation sidewall samples were compliant with the reclamation requirements. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved Bureau of Land Management (BLM) seed mixture.

Excavation of impacted soil supported efforts to remediate and reclaim this Site following the September 2021 and June 2022 release events. Depth to groundwater has been determined to be greater than 100 feet bgs and no sensitive receptors were identified near the release extents. COG believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Numbers NAPP2127234076 and NAPP2216436957. The Final C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist



Daniel, R. Moir, PG
Senior Managing Geologist

cc: Charles Beauvais, COG Operating, LCC
Bureau of Land Management

Attachments:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Lithologic/Soil Sampling Log
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports
Appendix D	NMOCD Notifications
Appendix E	Final C-141

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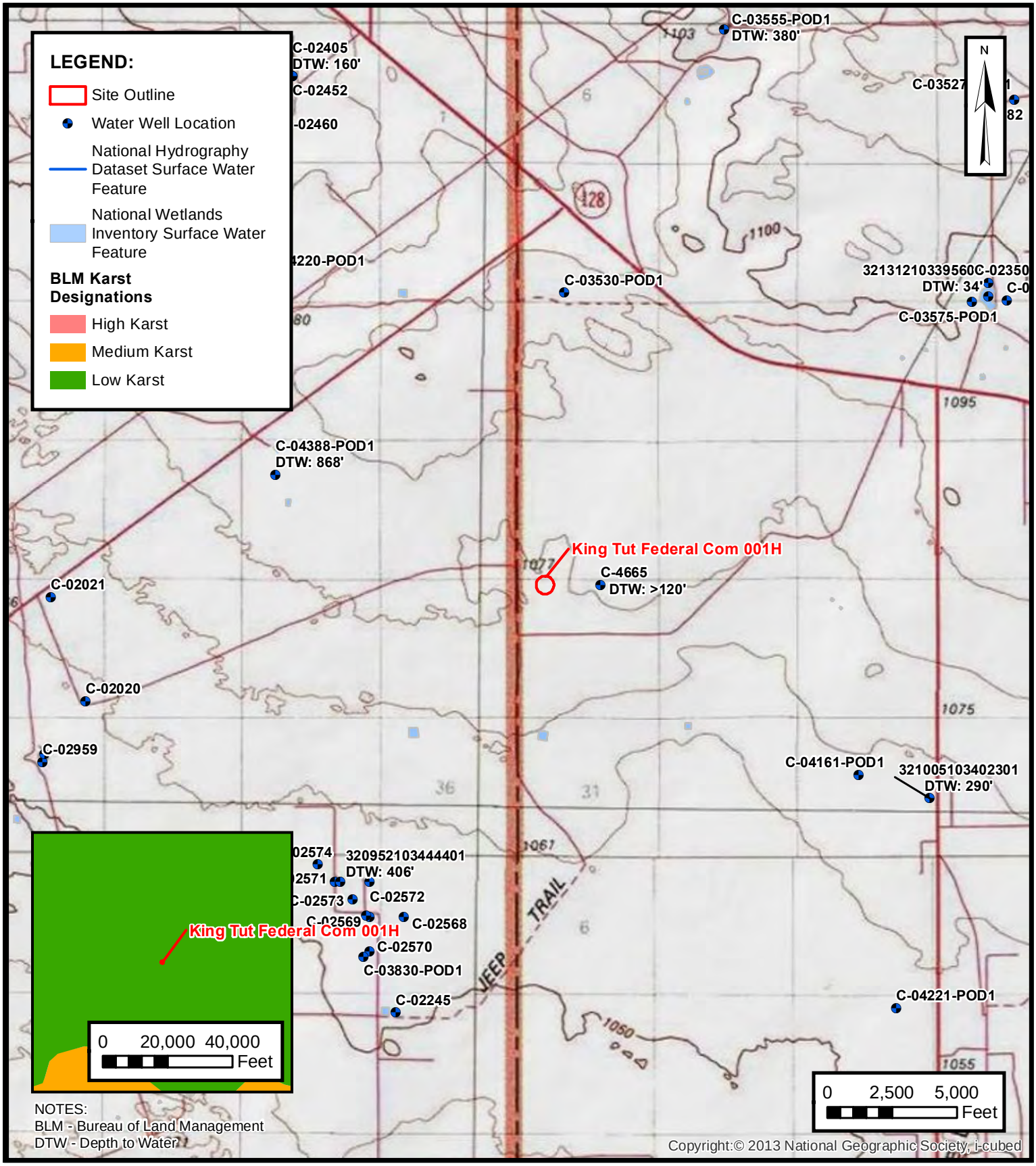
FIGURES



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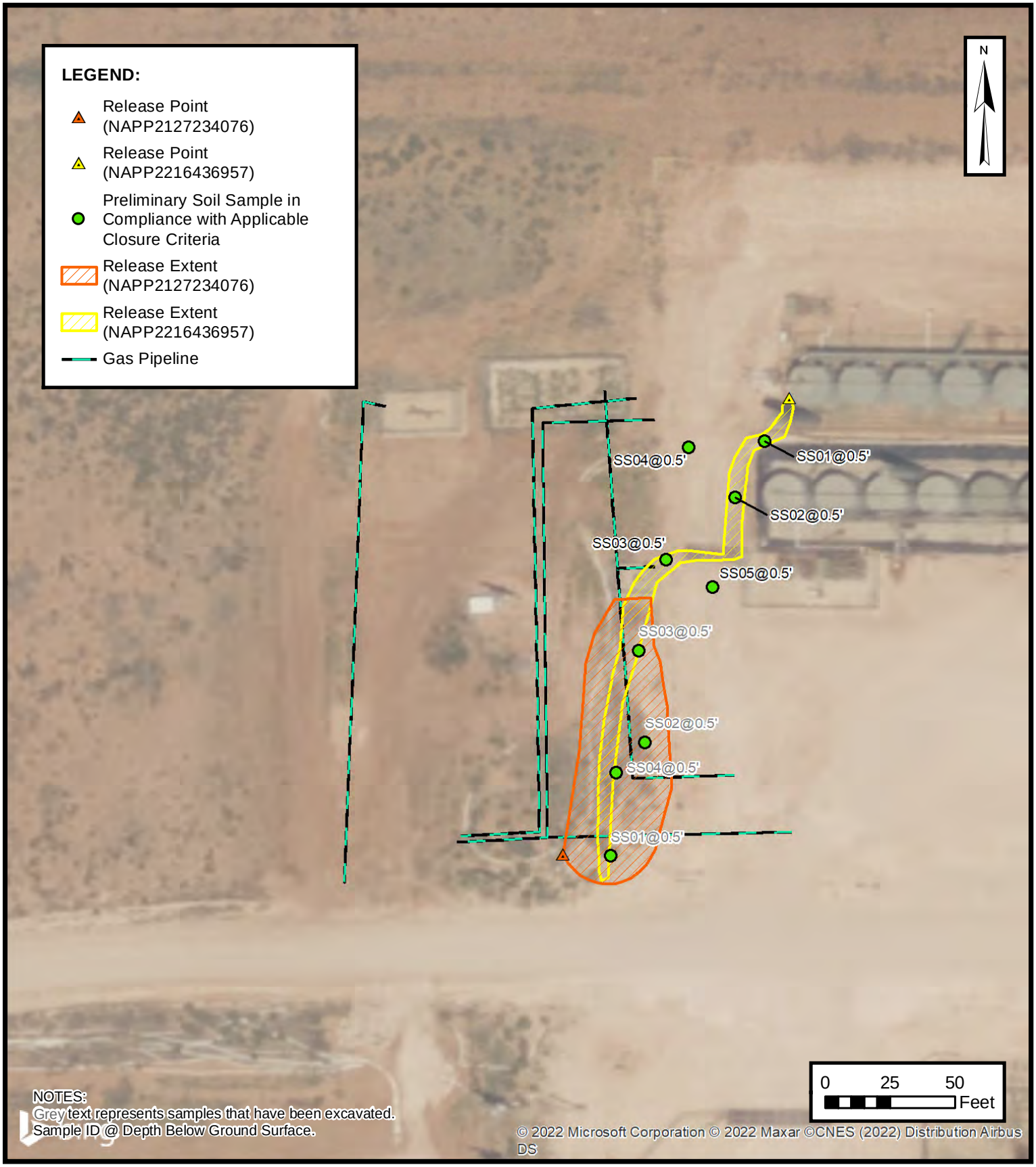
SITE LOCATION MAP

COG OPERATING, LLC
KING TUT FEDERAL COM 001H
NAPP2127234076 and NAPP2216436957
Unit D, Sec 30, T24S, R32E
Lea County, New Mexico

FIGURE
1



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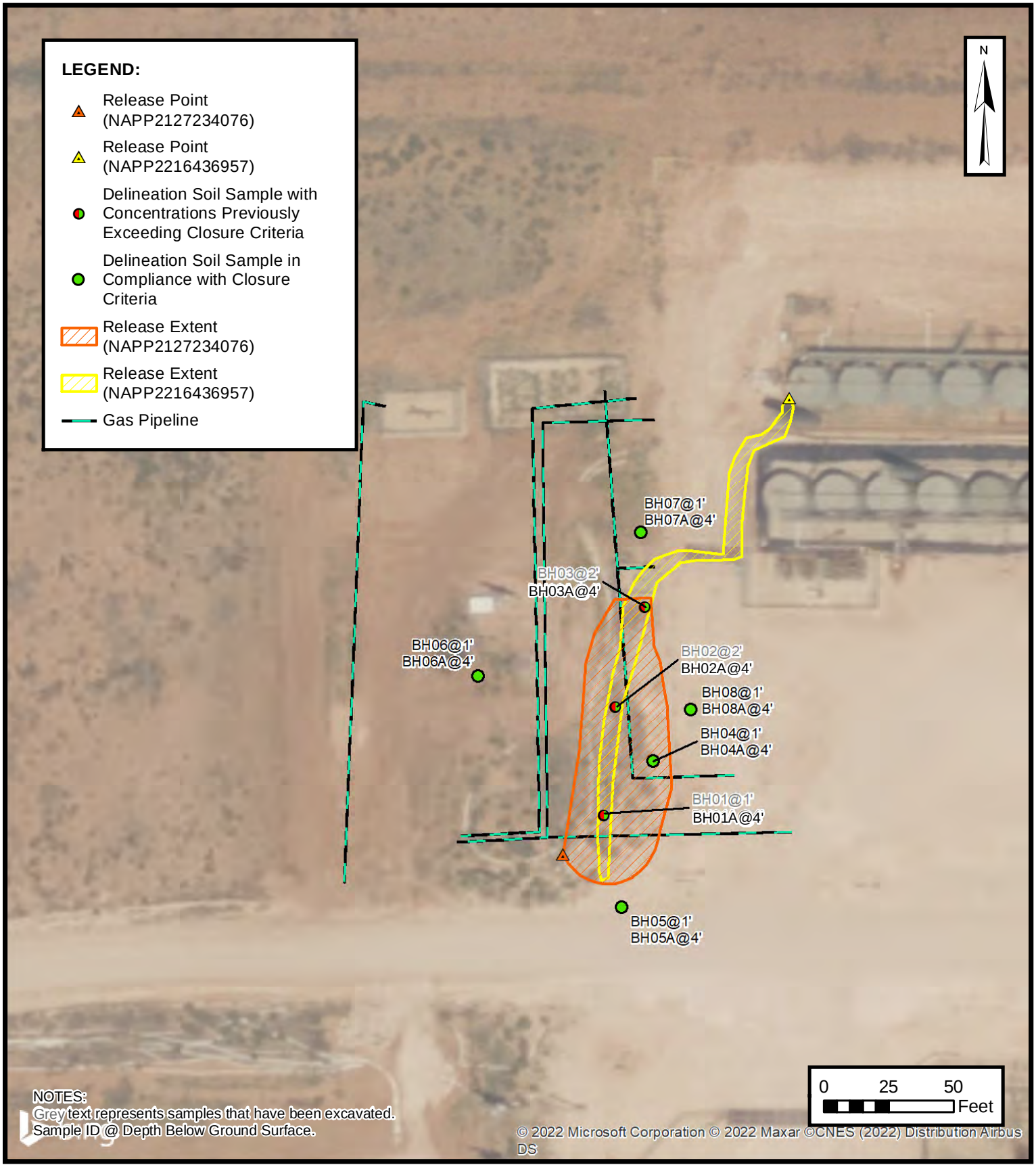
PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
KING TUT FEDERAL COM 001H
NAPP2127234076 and NAPP2216436957
Unit D Sec 30 T24S R32E
Lea County, New Mexico

FIGURE
2



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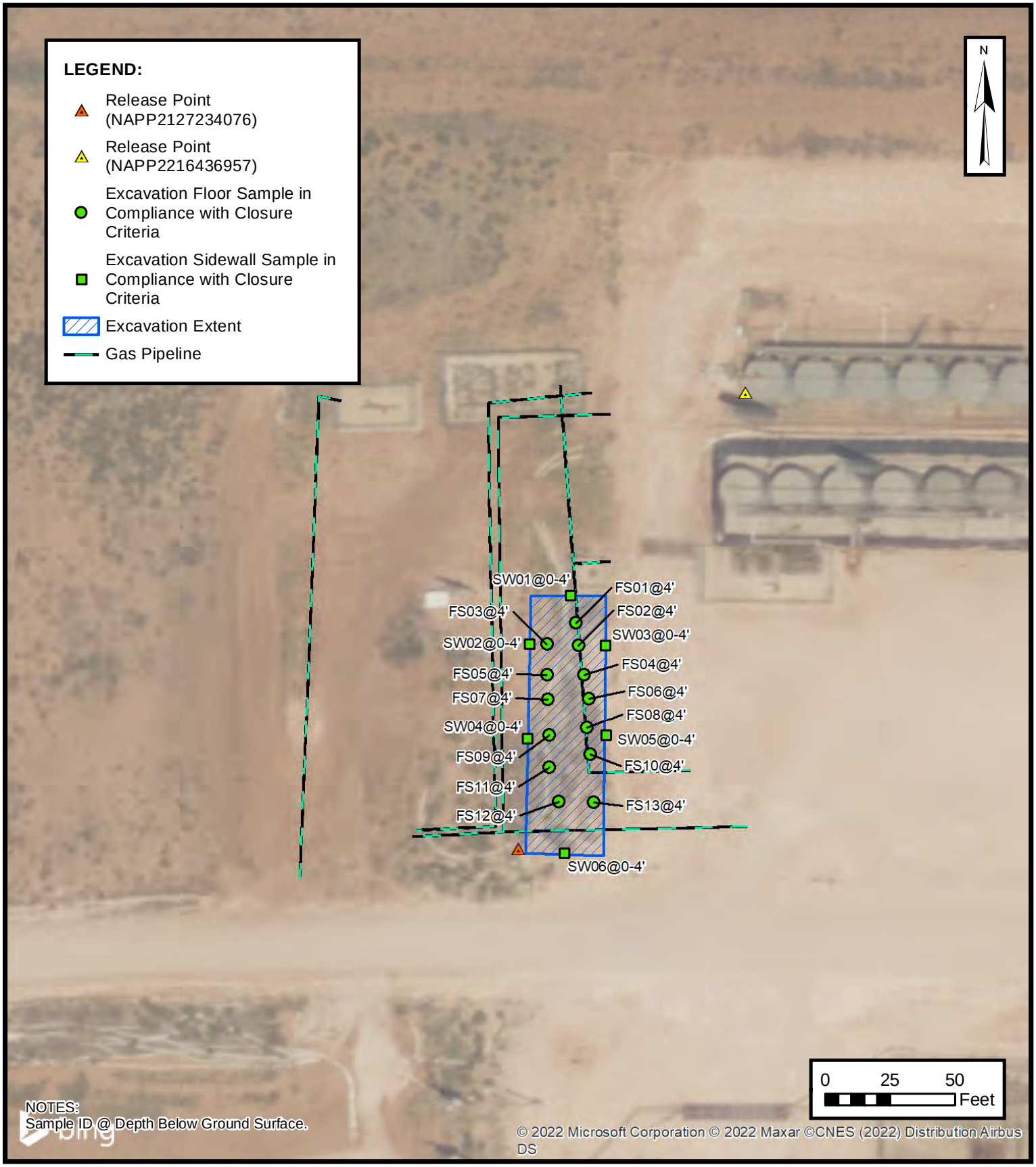
DELINEATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
KING TUT FEDERAL COM 001H
NAPP2127234076 and NAPP2216436957
Unit D Sec 30 T24S R32E
Lea County, New Mexico

FIGURE
3



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EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC
KING TUT FEDERAL COM 001H
NAPP2127234076 and NAPP2216436957
Unit D Sec 30 T24S R32E
Lea County, New Mexico

FIGURE
4

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
King Tut Federal Com 001H
COG Operating, LLC
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Assessment Soil Samples (NAPP2127234076)										
SS01	10/04/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	419*
SS02	10/04/2021	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	560*
SS03	10/04/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	533*
SS04	10/04/2021	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	600*
Preliminary Assessment Soil Samples (NAPP2216436957)										
SS01	08/10/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	6,050
SS02	08/10/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	53.9	<49.9	53.9	6,940
SS03	08/10/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	406
SS04	08/10/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	474
SS05	08/10/2022	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	335
Delineation Soil Samples										
BH01	07/20/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,150*
BH01A	07/20/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,530
BH02	07/20/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,720*
BH02A	07/20/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	44.3
BH03	07/20/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	4,510*
BH03A	07/20/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	589
BH04	07/20/2022	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	72.4*
BH04A	07/20/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	26.0
BH05	07/20/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	60.3*
BH05A	07/20/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	11.7
BH06	07/20/2022	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	7.98*
BH06A	07/20/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	5.22
BH07	07/20/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	13.2*
BH07A	07/20/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	17.1
BH08	07/20/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	24.5*
BH08A	07/20/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	10.2
Excavation Floor Samples										
FS01	07/26/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	620
FS02	07/28/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,510
FS03	07/28/2022	4	<0.00200	<0.00401	<50.0	61.1	<50.0	61.1	61.1	65.8
FS04	07/28/2022	4	<0.00202	<0.00403	<50.0	71.4	<50.0	71.4	71.4	1,470

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
King Tut Federal Com 001H
COG Operating, LLC
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS05	07/28/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,170
FS06	07/28/2022	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	373
FS07	07/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,180
FS08	07/28/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	73.1
FS09	07/28/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,610
FS10	07/28/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	35.2
FS11	07/29/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	586
FS12	07/29/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,210
FS13	07/29/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	357
Excavation Sidewall Samples										
SW01	07/28/2022	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	563*
SW02	07/28/2022	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	381*
SW03	07/29/2022	0 - 4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	165*
SW04	07/29/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.9*
SW05	07/29/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	100*
SW06	07/29/2022	0 - 4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	148*

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg
Grey text represents samples that have been excavated

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APPENDIX A

Lithologic Soil Sampling Logs

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Client: CONOCO PHILLIPS
Project Name: KING TUT FEDERAL 003H
Project Location: LEA COUNTY, NM
Project Manager: KALEI JENNINGS

BORING LOG NUMBER
BH01
Project No. 03D2024082

Date Sampled: 09/15/2022
Drilled by: WTWWS
Driller: RUSSELL SOUTHERLAND
Logged by: HADLIE GREEN
Sampler: HADLIE GREEN

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter: 6"
Casing Diameter: -
Well Materials: -
Surface Completion: -
Boring Method: AIR ROTARY

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
							pg. 1 of 2	
0						0' CCHE	CALICHE, light tan, fine to medium grain, up to 1" limestone clasts, slightly moist, no stain/odor.	
						10' SM	SILTY SAND, pinkish red, fine grain, 1-2 cm limestone clasts, well sorted, moderate grade, slightly consolidated, no stain/odor.	
20'								
40'						SM	SAA, reddish brown, trace limestone clasts (1-2 cm).	
60'						SM	SAA, abundant subrounded mud clasts up to 1".	
80'						SM	90': SAA, some green mud clasts (1-3 mm), slightly consolidated.	
100'								

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Client: CONOCO PHILLIPS
Project Name: KING TUT FEDERAL 003H
Project Location: LEA COUNTY, NM
Project Manager: KALEI JENNINGS

BORING LOG NUMBER
BH01
Project No. 03D2024082

Date Sampled: 09/15/2022
Drilled by: WTWWS
Driller: RUSSELL SOUTHERLAND
Logged by: HADLIE GREEN
Sampler: HADLIE GREEN

Ground Surface Elevation: —
Top of Casing Elevation: —
North Coordinate: —
West Coordinate: —
Bench Mark Elevation: —
At Completion
At Well Stabilization

Borehole Diameter: 6"
Casing Diameter: —
Well Materials: —
Surface Completion: —
Boring Method: AIR ROTARY

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
							pg. 2 of 2	
100'						SM	SILTY SAND, Reddish brown, fine grain, less mud clasts, No green mud clasts, well sorted, slightly consolidated, no stain / odor.	
120'							TD @ 120 feet bgs	

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	Sample Name: BH01	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	2,456	0.4	Y	BH01	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	2,368	0.4	Y	BH01A	2	2	CCHE	SAA
D	1,585	0.0	N	BH01B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH02	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	456	0.6	Y	BH02	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	868	0.4	Y	BH02A	2	2	CCHE	SAA
D	<168	0.0	N	BH02B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH03	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	1,568	0.6	Y	BH03	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	4,267	0.4	Y	BH03A	2	2	CCHE	SAA
D	596	0.0	N	BH03B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH04	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	345	0.6	Y	BH04	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	<168	0.4	Y	BH04A	2	2	CCHE	SAA
D	<168	0.0	N	BH04B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH05	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	<168	0.6	Y	BH05	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	<168	0.4	Y	BH05A	2	2	CCHE	SAA
D	<168	0.0	N	BH05B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH06	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	<168	0.6	Y	BH06	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	<168	0.4	Y	BH06A	2	2	CCHE	SAA
D	<168	0.0	N	BH06B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH07	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	168	0.6	Y	BH07	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	168	0.4	Y	BH07A	2	2	CCHE	SAA
D	<168	0.0	N	BH07B	4	4	CCHE	SAA
								TD @ 4 feet bgs

ENSOLUM

	Sample Name: BH08	Date: 07/20/2022
	Site Name: King Tut Federal 001H	
	Incident Number: NAPP2127234076 and NAPP2216436957	
	Job Number: 03D2024010 and 03D2024082	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand-auger
Coordinates:	Hole Diameter: 1'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
					0	0		
D	<168	0.6	Y	BH08	1	1	CCHE	Caliche-brown, well rounded, medium fine, grained sandstone
D	<168	0.4	Y	BH08A	2	2	CCHE	SAA
D	<168	0.0	N	BH08B	4	4	CCHE	SAA
								TD @ 4 feet bgs

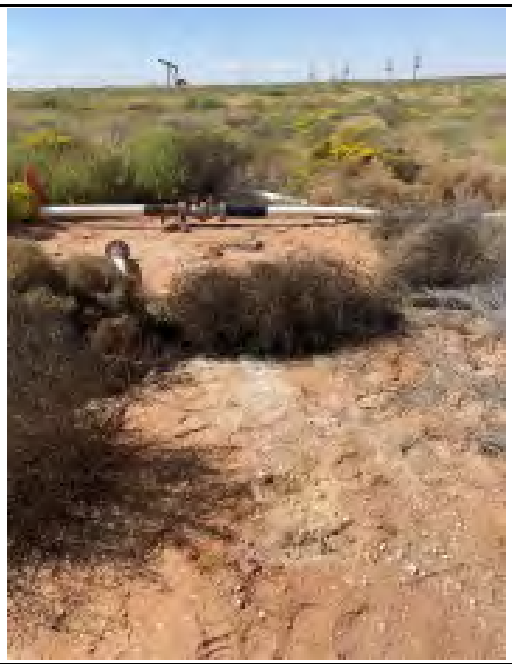
ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
COG Operating, LLC
King Kut Federal Com 001H
Incident Numbers NAPP2127234076 and NAPP2216436957



Photograph 1 Date: 10/04/2021
Description: View of release area during initial assessment activities.

Photograph 2 Date: 10/04/2021
Description: View of release area during initial assessment activities.

Photograph 3 Date: 10/04/2021
Description: View of release area during initial assessment activities.

Photograph 4 Date: 10/04/2021
Description: View of release area during initial assessment activities.

ENSOLUM

Photographic Log
COG Operating, LLC
King Kut Federal Com 001H
Incident Numbers NAPP2127234076 and NAPP2216436957

Photograph 1 Date: 07/26/2022
Description: View of excavation activities.

Photograph 2 Date: 07/26/2022
Description: View of excavation activities.

Photograph 3 Date: 07/28/2022
Description: View of excavation activities.

Photograph 4 Date: 07/28/2022
Description: View of excavation activities.

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1370-1
Laboratory Sample Delivery Group: 31402909.180
Client Project/Site: King Tut Federal Com 001H

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/15/2021 3:58:12 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Laboratory Job ID: 890-1370-1
SDG: 31402909.180

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Job ID: 890-1370-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1370-1

Receipt
The samples were received on 10/6/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9203 and analytical batch 880-9437 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9371 and analytical batch 880-9354 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Client Sample ID: SS01 Lab Sample ID: 890-1370-1

Date Collected: 10/04/21 14:58 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		10/11/21 11:51	10/15/21 06:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 06:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 06:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/21 11:51	10/15/21 06:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 06:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/21 11:51	10/15/21 06:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/11/21 11:51*	*10/15/21 06:38*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/11/21 11:51*	*10/15/21 06:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/11/21 13:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		10/13/21 11:33	10/13/21 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/21 11:33	10/13/21 21:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/21 11:33	10/13/21 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/13/21 11:33*	*10/13/21 21:54*	*1*
o-Terphenyl	*114*		*70 - 130*	*10/13/21 11:33*	*10/13/21 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		4.96		mg/Kg			10/15/21 11:45	1

Client Sample ID: SS02 Lab Sample ID: 890-1370-2

Date Collected: 10/04/21 15:02 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201		mg/Kg		10/11/21 11:51	10/15/21 06:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/21 11:51	10/15/21 06:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/21 11:51	10/15/21 06:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/21 11:51	10/15/21 06:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/21 11:51	10/15/21 06:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/21 11:51	10/15/21 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*10/11/21 11:51*	*10/15/21 06:58*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Client Sample ID: SS02 Lab Sample ID: 890-1370-2

Date Collected: 10/04/21 15:02 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*10/11/21 11:51*	*10/15/21 06:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/11/21 13:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 22:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 22:56	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/13/21 11:33	10/13/21 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*10/13/21 11:33*	*10/13/21 22:56*	*1*
o-Terphenyl	*123*		*70 - 130*	*10/13/21 11:33*	*10/13/21 22:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**560**		4.95	mg/Kg			10/15/21 11:51	1

Client Sample ID: SS03 Lab Sample ID: 890-1370-3

Date Collected: 10/04/21 15:17 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/11/21 11:51	10/15/21 07:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 07:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 07:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 07:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/11/21 11:51	10/15/21 07:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/11/21 11:51	10/15/21 07:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*10/11/21 11:51*	*10/15/21 07:18*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/11/21 11:51*	*10/15/21 07:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/11/21 13:34	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Client Sample ID: SS03 — Lab Sample ID: 890-1370-3

Date Collected: 10/04/21 15:17 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/13/21 11:33	10/13/21 23:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/13/21 11:33	10/13/21 23:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/13/21 11:33	10/13/21 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*10/13/21 11:33*	*10/13/21 23:16*	*1*
o-Terphenyl	*120*		*70 - 130*	*10/13/21 11:33*	*10/13/21 23:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**533**		5.04		mg/Kg			10/15/21 11:56	1

Client Sample ID: SS04 — Lab Sample ID: 890-1370-4

Date Collected: 10/04/21 15:24 **Matrix: Solid**
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		10/11/21 11:51	10/15/21 07:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 07:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 07:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 11:51	10/15/21 07:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 07:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 11:51	10/15/21 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/11/21 11:51*	*10/15/21 07:39*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*10/11/21 11:51*	*10/15/21 07:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/14/21 15:26	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/11/21 13:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/12/21 10:29	10/13/21 06:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/12/21 10:29	10/13/21 06:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/12/21 10:29	10/13/21 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/12/21 10:29*	*10/13/21 06:28*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/12/21 10:29*	*10/13/21 06:28*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Client Sample ID: SS04

Date Collected: 10/04/21 15:24
Date Received: 10/06/21 09:40
Sample Depth: 0 - 0.5

Lab Sample ID: 890-1370-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600		4.95		mg/Kg			10/15/21 12:02	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1368-A-1-H MSD	Matrix Spike Duplicate	124	10 S1-
890-1368-A-1-J MS	Matrix Spike	1186 S1+	49 S1-
890-1370-1	SS01	96	104
890-1370-2	SS02	110	127
890-1370-3	SS03	92	105
890-1370-4	SS04	100	103
LCS 880-9203/1-A	Lab Control Sample	87	80
LCSD 880-9203/2-A	Lab Control Sample Dup	85	100
MB 880-9203/5-A	Method Blank	101	104
MB 880-9306/5-A	Method Blank	100	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6818-A-1-I MS	Matrix Spike	101	94
880-6818-A-1-J MSD	Matrix Spike Duplicate	105	98
890-1370-1	SS01	102	114
890-1370-1 MS	SS01	115	115
890-1370-1 MSD	SS01	112	111
890-1370-2	SS02	110	123
890-1370-3	SS03	107	120
890-1370-4	SS04	92	92
LCS 880-9289/2-A	Lab Control Sample	90	85
LCS 880-9371/2-A	Lab Control Sample	81	82
LCSD 880-9289/3-A	Lab Control Sample Dup	87	81
LCSD 880-9371/3-A	Lab Control Sample Dup	86	86
MB 880-9289/1-A	Method Blank	102	106
MB 880-9371/1-A	Method Blank	107	123

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9203/5-A
Matrix: Solid
Analysis Batch: 9437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9203

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 00:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 11:51	10/15/21 00:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 11:51	10/15/21 00:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 11:51	10/15/21 00:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*10/11/21 11:51*	*10/15/21 00:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*10/11/21 11:51*	*10/15/21 00:15*	*1*

Lab Sample ID: LCS 880-9203/1-A
Matrix: Solid
Analysis Batch: 9437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9203

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07006		mg/Kg		70	70 - 130		
Toluene			0.100	0.07910		mg/Kg		79	70 - 130		
Ethylbenzene			0.100	0.08412		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1588		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.08688		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-9203/2-A
Matrix: Solid
Analysis Batch: 9437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9203

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1032	*1	mg/Kg		103	70 - 130	38	35
Toluene			0.100	0.1035		mg/Kg		103	70 - 130	27	35
Ethylbenzene			0.100	0.1105		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene			0.200	0.2112		mg/Kg		106	70 - 130	28	35
o-Xylene			0.100	0.1090		mg/Kg		109	70 - 130	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-1368-A-1-H MSD
Matrix: Solid
Analysis Batch: 9437

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 9203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U *1 F1 F2	0.0990	0.006864	F1 F2	mg/Kg		7	70 - 130	183	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

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

Lab Sample ID: 890-1368-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9437 — **Prep Batch: 9203**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	<0.00199	U F1 F2	0.0990	0.002203	F1 F2	mg/Kg		2	70 - 130	186	35
Ethylbenzene	<0.00199	U F1 F2	0.0990	0.01848	F1 F2	mg/Kg		19	70 - 130	71	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.05743	F1	mg/Kg		29	70 - 130	7	35
o-Xylene	<0.00199	U F1 F2	0.0990	0.03581	F1 F2	mg/Kg		36	70 - 130	63	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*10*	*S1-*	*70 - 130*

Lab Sample ID: 890-1368-A-1-J MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9437 — **Prep Batch: 9203**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U *1 F1 F2	0.100	0.1553	F1	mg/Kg		155	70 - 130
Toluene	<0.00199	U F1 F2	0.100	0.06144	F1	mg/Kg		61	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03870	F1	mg/Kg		39	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.05344	F1	mg/Kg		27	70 - 130
o-Xylene	<0.00199	U F1 F2	0.100	0.06883	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*1186*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*49*	*S1-*	*70 - 130*

Lab Sample ID: MB 880-9306/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 9437 — **Prep Batch: 9306**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/12/21 12:26	10/14/21 12:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/12/21 12:26	10/14/21 12:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/12/21 12:26	10/14/21 12:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/12/21 12:26	10/14/21 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/12/21 12:26*	*10/14/21 12:41*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*10/12/21 12:26*	*10/14/21 12:41*	*1*

QC Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-9289/1-A
Matrix: Solid
Analysis Batch: 9267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9289

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/12/21 10:29	10/12/21 21:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/12/21 10:29	10/12/21 21:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/12/21 10:29	10/12/21 21:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/12/21 10:29*	*10/12/21 21:31*	*1*
o-Terphenyl	*106*		*70 - 130*	*10/12/21 10:29*	*10/12/21 21:31*	*1*

Lab Sample ID: LCS 880-9289/2-A
Matrix: Solid
Analysis Batch: 9267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9289

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	936.6		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	928.8		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Lab Sample ID: LCSD 880-9289/3-A
Matrix: Solid
Analysis Batch: 9267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.5		mg/Kg		86	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	945.9		mg/Kg		95	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-6818-A-1-I MS
Matrix: Solid
Analysis Batch: 9267

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 9289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	876.6		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	938.7		mg/Kg		94	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-6818-A-1-I MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 9267 **Prep Batch: 9289**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-6818-A-1-J MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 9267 **Prep Batch: 9289**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	928.9		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	994.0		mg/Kg		99	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: MB 880-9371/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 9354 **Prep Batch: 9371**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/13/21 11:33	10/13/21 20:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/13/21 11:33	10/13/21 20:52	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/13/21 11:33	10/13/21 20:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/13/21 11:33	10/13/21 20:52	1
o-Terphenyl	123		70 - 130	10/13/21 11:33	10/13/21 20:52	1

Lab Sample ID: LCS 880-9371/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 9354 **Prep Batch: 9371**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1243		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	848.4		mg/Kg		85	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-9371/3-A
Matrix: Solid
Analysis Batch: 9354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9371

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1252		mg/Kg		125	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	831.2		mg/Kg		83	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 890-1370-1 MS
Matrix: Solid
Analysis Batch: 9354

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1402	F1	mg/Kg		141	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1076		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: 890-1370-1 MSD
Matrix: Solid
Analysis Batch: 9354

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 9371

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1334	F1	mg/Kg		133	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1043		mg/Kg		103	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9409/1-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/15/21 09:50	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-9409/2-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-9409/3-A
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	256.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-1368-A-1-K MS
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	173	F1	249	389.0	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-1368-A-1-K MSD
Matrix: Solid
Analysis Batch: 9528

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	173	F1	249	390.5	F1	mg/Kg		87	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

GC VOA

Prep Batch: 9203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	5035	
890-1370-2	SS02	Total/NA	Solid	5035	
890-1370-3	SS03	Total/NA	Solid	5035	
890-1370-4	SS04	Total/NA	Solid	5035	
MB 880-9203/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 9306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9306/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 9437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	8021B	9203
890-1370-2	SS02	Total/NA	Solid	8021B	9203
890-1370-3	SS03	Total/NA	Solid	8021B	9203
890-1370-4	SS04	Total/NA	Solid	8021B	9203
MB 880-9203/5-A	Method Blank	Total/NA	Solid	8021B	9203
MB 880-9306/5-A	Method Blank	Total/NA	Solid	8021B	9306
LCS 880-9203/1-A	Lab Control Sample	Total/NA	Solid	8021B	9203
LCSD 880-9203/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9203
890-1368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9203
890-1368-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	9203

Analysis Batch: 9497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	Total BTEX	
890-1370-2	SS02	Total/NA	Solid	Total BTEX	
890-1370-3	SS03	Total/NA	Solid	Total BTEX	
890-1370-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	8015 NM	
890-1370-2	SS02	Total/NA	Solid	8015 NM	
890-1370-3	SS03	Total/NA	Solid	8015 NM	
890-1370-4	SS04	Total/NA	Solid	8015 NM	

Analysis Batch: 9267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-4	SS04	Total/NA	Solid	8015B NM	9289
MB 880-9289/1-A	Method Blank	Total/NA	Solid	8015B NM	9289
LCS 880-9289/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9289
LCSD 880-9289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9289
880-6818-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	9289
880-6818-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9289

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

GC Semi VOA

Prep Batch: 9289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-9289/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9289/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9289/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6818-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6818-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	8015B NM	9371
890-1370-2	SS02	Total/NA	Solid	8015B NM	9371
890-1370-3	SS03	Total/NA	Solid	8015B NM	9371
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015B NM	9371
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9371
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9371
890-1370-1 MS	SS01	Total/NA	Solid	8015B NM	9371
890-1370-1 MSD	SS01	Total/NA	Solid	8015B NM	9371

Prep Batch: 9371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Total/NA	Solid	8015NM Prep	
890-1370-2	SS02	Total/NA	Solid	8015NM Prep	
890-1370-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-9371/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9371/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1370-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-1370-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 9409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Soluble	Solid	DI Leach	
890-1370-2	SS02	Soluble	Solid	DI Leach	
890-1370-3	SS03	Soluble	Solid	DI Leach	
890-1370-4	SS04	Soluble	Solid	DI Leach	
MB 880-9409/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9409/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9409/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1368-A-1-K MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1368-A-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 9528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1370-1	SS01	Soluble	Solid	300.0	9409
890-1370-2	SS02	Soluble	Solid	300.0	9409
890-1370-3	SS03	Soluble	Solid	300.0	9409
890-1370-4	SS04	Soluble	Solid	300.0	9409
MB 880-9409/1-A	Method Blank	Soluble	Solid	300.0	9409
LCS 880-9409/2-A	Lab Control Sample	Soluble	Solid	300.0	9409

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

HPLC/IC (Continued)

Analysis Batch: 9528 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9409/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9409
890-1368-A-1-K MS	Matrix Spike	Soluble	Solid	300.0	9409
890-1368-A-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9409

Lab Chronicle

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Client Sample ID: SS01

Lab Sample ID: 890-1370-1

Date Collected: 10/04/21 14:58
Matrix: Solid
Date Received: 10/06/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 06:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9189	10/11/21 13:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 21:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 11:45	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1370-2

Date Collected: 10/04/21 15:02
Matrix: Solid
Date Received: 10/06/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 06:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9189	10/11/21 13:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 22:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 11:51	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1370-3

Date Collected: 10/04/21 15:17
Matrix: Solid
Date Received: 10/06/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 07:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID
Total/NA	Analysis	8015 NM		1			9189	10/11/21 13:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9371	10/13/21 11:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9354	10/13/21 23:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 11:56	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1370-4

Date Collected: 10/04/21 15:24
Matrix: Solid
Date Received: 10/06/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	9203	10/11/21 11:51	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9437	10/15/21 07:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			9497	10/14/21 15:26	MR	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Client Sample ID: SS04 **Lab Sample ID: 890-1370-4**
Date Collected: 10/04/21 15:24 **Matrix: Solid**
Date Received: 10/06/21 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			9189	10/11/21 13:34	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9289	10/12/21 10:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			9267	10/13/21 06:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9409	10/13/21 18:21	CA	XEN MID
Soluble	Analysis	300.0		1			9528	10/15/21 12:02	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc. Job ID: 890-1370-1
Project/Site: King Tut Federal Com 001H SDG: 31402909.180

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: King Tut Federal Com 001H

Job ID: 890-1370-1
SDG: 31402909.180

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1370-1	SS01	Solid	10/04/21 14:58	10/06/21 09:40	0 - 0.5
890-1370-2	SS02	Solid	10/04/21 15:02	10/06/21 09:40	0 - 0.5
890-1370-3	SS03	Solid	10/04/21 15:17	10/06/21 09:40	0 - 0.5
890-1370-4	SS04	Solid	10/04/21 15:24	10/06/21 09:40	0 - 0.5

Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(817) 683-2503	Email:	kalei.jennings@wsp.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around	
Project Number:	31402909.180	Routine:	☑
Location:	Lea County	Rush:	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	2.6/2.4	Thermometer ID	TUM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
SS01	S	10/4/2021	1458	0 - 0.5'	1	X	X	X
SS02	S	10/4/2021	1502	0 - 0.5'	1	X	X	X
SS03	S	10/4/2021	1517	0 - 0.5'	1	X	X	X
SS04	S	10/4/2021	1524	0 - 0.5'	1	X	X	X

890-1370 Chain of Custody

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	10.6.21	10/6/21 @ 0950	2		
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-451 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1370-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 10/12/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: King Tut Federal Com 001H	Project #: 89000048			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B NaOH, C - Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W - pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SS01 (890-1370-1)	10/4/21	14 58 Mountain		Solid			X	X	X	X	X	1	
SS02 (890-1370-2)	10/4/21	15 02 Mountain		Solid			X	X	X	X	X	1	
SS03 (890-1370-3)	10/4/21	15 17 Mountain		Solid			X	X	X	X	X	1	
SS04 (890-1370-4)	10/4/21	15 24 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Cloe Cuff 10.6.21	Date/Time	Company	Received by:	Date/Time: 10-7-21 11:30am	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
Δ Yes Δ No		2-1 2.0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1370-1
SDG Number: 31402909.180

Login Number: 1370
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1370-1
SDG Number: 31402909.180

Login Number: 1370
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 10/07/21 11:15 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2606-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: King Tut Federal Com 001H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/1/2022 7:58:18 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Laboratory Job ID: 890-2606-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2606-1
Project/Site: King Tut Federal Com 001H SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Job ID: 890-2606-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2606-1

Receipt
The samples were received on 7/21/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.1°C

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: BH01 (890-2606-1), BH01 (890-2606-2), BH02 (890-2606-3), BH02 (890-2606-4), BH03 (890-2606-5), BH03 (890-2606-6), BH04 (890-2606-7), BH04 (890-2606-8), BH05 (890-2606-9), BH05 (890-2606-10), BH06 (890-2606-11), BH06 (890-2606-12), BH07 (890-2606-13), BH07 (890-2606-14), BH08 (890-2606-15) and BH08 (890-2606-16). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Samples were 18.3/18.1 c over the 0-6 c- client wants samples runned

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-30796 and analytical batch 880-30748 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30893 and analytical batch 880-31046 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30658 and analytical batch 880-30649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2618-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-30666 and analytical batch 880-30643 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH01

Lab Sample ID: 890-2606-1
Matrix: Solid
Date Collected: 07/20/22 09:05
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 14:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 14:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 14:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/26/22 10:29	07/27/22 14:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 14:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/26/22 10:29	07/27/22 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:16*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 11:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		07/26/22 08:35	07/26/22 11:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*07/26/22 08:35*	*07/26/22 11:53*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/26/22 08:35*	*07/26/22 11:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3150**		24.8		mg/Kg			07/27/22 01:35	5

Client Sample ID: BH01

Lab Sample ID: 890-2606-2
Matrix: Solid
Date Collected: 07/20/22 09:10
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/26/22 10:29	07/27/22 14:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/26/22 10:29	07/27/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:37*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH01

Lab Sample ID: 890-2606-2
Matrix: Solid
Date Collected: 07/20/22 09:10
Date Received: 07/21/22 09:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 12:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 12:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*80*		*70 - 130*	*07/26/22 08:35*	*07/26/22 12:58*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/26/22 08:35*	*07/26/22 12:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		24.8		mg/Kg			07/27/22 01:42	5

Client Sample ID: BH02

Lab Sample ID: 890-2606-3
Matrix: Solid
Date Collected: 07/20/22 09:15
Date Received: 07/21/22 09:40
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/26/22 10:29	07/27/22 14:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/26/22 10:29	07/27/22 14:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/26/22 10:29	07/27/22 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:57*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/26/22 10:29*	*07/27/22 14:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH02
Date Collected: 07/20/22 09:15
Date Received: 07/21/22 09:40
Sample Depth: 2

Lab Sample ID: 890-2606-3
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/26/22 08:35*	*07/26/22 13:19*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/26/22 08:35*	*07/26/22 13:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1720**		25.0		mg/Kg			07/27/22 01:50	5

Client Sample ID: BH02
Date Collected: 07/20/22 09:20
Date Received: 07/21/22 09:40
Sample Depth: 4

Lab Sample ID: 890-2606-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/26/22 10:29	07/27/22 17:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/26/22 10:29	07/27/22 17:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/26/22 10:29	07/27/22 17:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/26/22 10:29	07/27/22 17:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/26/22 10:29	07/27/22 17:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/26/22 10:29	07/27/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/26/22 10:29*	*07/27/22 17:37*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/26/22 10:29*	*07/27/22 17:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*07/26/22 08:35*	*07/26/22 13:41*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/26/22 08:35*	*07/26/22 13:41*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH02

Lab Sample ID: 890-2606-4
Matrix: Solid
Date Collected: 07/20/22 09:20
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.3		5.04		mg/Kg			07/27/22 02:14	1

Client Sample ID: BH03

Lab Sample ID: 890-2606-5
Matrix: Solid
Date Collected: 07/20/22 09:25
Date Received: 07/21/22 09:40
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/26/22 10:29	07/27/22 17:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/26/22 10:29	07/27/22 17:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/26/22 10:29	07/27/22 17:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/26/22 10:29	07/27/22 17:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/26/22 10:29	07/27/22 17:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/26/22 10:29	07/27/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/26/22 10:29*	*07/27/22 17:57*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*07/26/22 10:29*	*07/27/22 17:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:02*	*1*
o-Terphenyl	*89*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4510		25.3		mg/Kg			07/27/22 02:22	5

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH03

Lab Sample ID: 890-2606-6
Matrix: Solid
Date Collected: 07/20/22 09:30
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 18:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/26/22 10:29	07/27/22 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/26/22 10:29	07/27/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/26/22 10:29*	*07/27/22 18:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/26/22 10:29*	*07/27/22 18:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**589**		5.03		mg/Kg			07/27/22 02:29	1

Client Sample ID: BH04

Lab Sample ID: 890-2606-7
Matrix: Solid
Date Collected: 07/20/22 09:35
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 03:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/28/22 09:46	07/31/22 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 03:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/28/22 09:46	07/31/22 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*07/28/22 09:46*	*07/31/22 03:20*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH04

Lab Sample ID: 890-2606-7
Matrix: Solid
Date Collected: 07/20/22 09:35
Date Received: 07/21/22 09:40
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/28/22 09:46*	*07/31/22 03:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/26/22 08:35	07/26/22 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/26/22 08:35	07/26/22 14:45	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/26/22 08:35	07/26/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:45*	*1*
o-Terphenyl	*91*		*70 - 130*	*07/26/22 08:35*	*07/26/22 14:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.4**		5.03	mg/Kg			07/27/22 02:37	1

Client Sample ID: BH04

Lab Sample ID: 890-2606-8
Matrix: Solid
Date Collected: 07/20/22 09:40
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/28/22 09:46	07/31/22 03:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/28/22 09:46	07/31/22 03:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/28/22 09:46	07/31/22 03:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/28/22 09:46	07/31/22 03:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/28/22 09:46	07/31/22 03:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/28/22 09:46	07/31/22 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/28/22 09:46*	*07/31/22 03:41*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/28/22 09:46*	*07/31/22 03:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/27/22 09:04	1

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Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH04

Lab Sample ID: 890-2606-8
Matrix: Solid
Date Collected: 07/20/22 09:40
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 15:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:06*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:06*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.0**		5.00		mg/Kg			07/27/22 02:45	1

Client Sample ID: BH05

Lab Sample ID: 890-2606-9
Matrix: Solid
Date Collected: 07/20/22 09:45
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 04:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 04:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 04:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/28/22 09:46	07/31/22 04:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 04:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/28/22 09:46	07/31/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:01*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:27*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH05

Lab Sample ID: 890-2606-9
Matrix: Solid
Date Collected: 07/20/22 09:45
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		4.97		mg/Kg			07/27/22 02:53	1

Client Sample ID: BH05

Lab Sample ID: 890-2606-10
Matrix: Solid
Date Collected: 07/20/22 09:50
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 04:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 04:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 04:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/28/22 09:46	07/31/22 04:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 04:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/28/22 09:46	07/31/22 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:21*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:49*	*1*
o-Terphenyl	*90*		*70 - 130*	*07/26/22 08:35*	*07/26/22 15:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		5.02		mg/Kg			07/27/22 03:16	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH06

Lab Sample ID: 890-2606-11
Matrix: Solid
Date Collected: 07/20/22 10:00
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/28/22 09:46	07/31/22 04:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/28/22 09:46	07/31/22 04:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/28/22 09:46	07/31/22 04:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/28/22 09:46	07/31/22 04:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/28/22 09:46	07/31/22 04:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/28/22 09:46	07/31/22 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:42*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/28/22 09:46*	*07/31/22 04:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/26/22 08:35*	*07/26/22 16:33*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/26/22 08:35*	*07/26/22 16:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.98**		5.05		mg/Kg			07/27/22 03:24	1

Client Sample ID: BH06

Lab Sample ID: 890-2606-12
Matrix: Solid
Date Collected: 07/20/22 10:10
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 05:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 05:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 05:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/28/22 09:46	07/31/22 05:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 05:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/28/22 09:46	07/31/22 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH06

Lab Sample ID: 890-2606-12
Matrix: Solid
Date Collected: 07/20/22 10:10
Date Received: 07/21/22 09:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 16:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 16:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*79*		*70 - 130*	*07/26/22 08:35*	*07/26/22 16:54*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/26/22 08:35*	*07/26/22 16:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.22**		5.05		mg/Kg			07/27/22 03:48	1

Client Sample ID: BH07

Lab Sample ID: 890-2606-13
Matrix: Solid
Date Collected: 07/20/22 10:20
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 05:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 05:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 05:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/28/22 09:46	07/31/22 05:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/28/22 09:46	07/31/22 05:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/28/22 09:46	07/31/22 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:23*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH07
Date Collected: 07/20/22 10:20
Date Received: 07/21/22 09:40
Sample Depth: 1

Lab Sample ID: 890-2606-13
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 17:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 17:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:15*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		5.05		mg/Kg			07/27/22 03:56	1

Client Sample ID: BH07
Date Collected: 07/20/22 10:30
Date Received: 07/21/22 09:40
Sample Depth: 4

Lab Sample ID: 890-2606-14
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/28/22 09:46	07/31/22 05:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/28/22 09:46	07/31/22 05:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/28/22 09:46	07/31/22 05:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/28/22 09:46	07/31/22 05:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/28/22 09:46	07/31/22 05:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/28/22 09:46	07/31/22 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:43*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*07/28/22 09:46*	*07/31/22 05:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:36*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:36*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH07

Lab Sample ID: 890-2606-14
Matrix: Solid
Date Collected: 07/20/22 10:30
Date Received: 07/21/22 09:40
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		4.98		mg/Kg			07/27/22 04:04	1

Client Sample ID: BH08

Lab Sample ID: 890-2606-15
Matrix: Solid
Date Collected: 07/20/22 10:40
Date Received: 07/21/22 09:40
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/28/22 09:46	07/31/22 06:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/28/22 09:46	07/31/22 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/28/22 09:46*	*07/31/22 06:04*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/28/22 09:46*	*07/31/22 06:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/26/22 08:35	07/26/22 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:57*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/26/22 08:35*	*07/26/22 17:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5		5.04		mg/Kg			07/27/22 04:11	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH08

Date Collected: 07/20/22 10:50
Date Received: 07/21/22 09:40
Sample Depth: 4

Lab Sample ID: 890-2606-16

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/28/22 09:46	07/31/22 06:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/31/22 06:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/28/22 09:46	07/31/22 06:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/28/22 09:46*	*07/31/22 06:24*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/28/22 09:46*	*07/31/22 06:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/27/22 18:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/27/22 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 01:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 01:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/27/22 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/26/22 10:41*	*07/27/22 01:07*	*1*
o-Terphenyl	*87*		*70 - 130*	*07/26/22 10:41*	*07/27/22 01:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.2**		4.98		mg/Kg			07/27/22 04:19	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-17402-A-2-D MS	Matrix Spike	96	103
880-17402-A-2-E MSD	Matrix Spike Duplicate	93	99
880-17457-A-4-B MS	Matrix Spike	97	85
880-17457-A-4-C MSD	Matrix Spike Duplicate	90	83
890-2602-A-3-D MS	Matrix Spike	99	99
890-2602-A-3-E MSD	Matrix Spike Duplicate	104	98
890-2606-1	BH01	101	104
890-2606-2	BH01	104	106
890-2606-3	BH02	98	103
890-2606-4	BH02	105	104
890-2606-5	BH03	100	112
890-2606-6	BH03	99	106
890-2606-7	BH04	98	85
890-2606-8	BH04	112	89
890-2606-9	BH05	113	87
890-2606-10	BH05	101	78
890-2606-11	BH06	111	88
890-2606-12	BH06	114	88
890-2606-13	BH07	113	89
890-2606-14	BH07	108	84
890-2606-15	BH08	97	74
890-2606-16	BH08	117	91
LCS 880-30665/1-A	Lab Control Sample	99	97
LCS 880-30796/1-A	Lab Control Sample	96	104
LCS 880-30893/1-A	Lab Control Sample	102	97
LCSD 880-30665/2-A	Lab Control Sample Dup	98	102
LCSD 880-30796/2-A	Lab Control Sample Dup	103	105
LCSD 880-30893/2-A	Lab Control Sample Dup	102	99
MB 880-30595/5-A	Method Blank	107	89
MB 880-30665/5-A	Method Blank	95	100
MB 880-30796/5-A	Method Blank	95	101
MB 880-30893/5-A	Method Blank	98	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2606-1	BH01	91	104
890-2606-1 MS	BH01	70	70
890-2606-1 MSD	BH01	71	73
890-2606-2	BH01	80	94
890-2606-3	BH02	81	97
890-2606-4	BH02	84	99
890-2606-5	BH03	77	89

Surrogate Summary

Client: Ensolum Job ID: 890-2606-1
Project/Site: King Tut Federal Com 001H SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-2606-6	BH03	76	90								
890-2606-7	BH04	81	91								
890-2606-8	BH04	79	93								
890-2606-9	BH05	78	90								
890-2606-10	BH05	75	90								
890-2606-11	BH06	74	83								
890-2606-12	BH06	79	93								
890-2606-13	BH07	79	93								
890-2606-14	BH07	75	84								
890-2606-15	BH08	71	78								
890-2606-16	BH08	82	87								
890-2618-A-1-E MS	Matrix Spike	82	78								
890-2618-A-1-F MSD	Matrix Spike Duplicate	67 S1-	64 S1-								
LCS 880-30658/2-A	Lab Control Sample	106	111								
LCS 880-30666/2-A	Lab Control Sample	90	92								
LCSD 880-30658/3-A	Lab Control Sample Dup	94	101								
LCSD 880-30666/3-A	Lab Control Sample Dup	93	95								
MB 880-30658/1-A	Method Blank	74	83								
MB 880-30666/1-A	Method Blank	100	108								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-30595/5-A
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30595

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/25/22 14:01	07/30/22 11:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/25/22 14:01	07/30/22 11:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/25/22 14:01	07/30/22 11:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/25/22 14:01	07/30/22 11:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/25/22 14:01	07/30/22 11:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/25/22 14:01	07/30/22 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/25/22 14:01*	*07/30/22 11:57*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/25/22 14:01*	*07/30/22 11:57*	*1*

Lab Sample ID: MB 880-30665/5-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30665

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 11:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 11:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/26/22 10:29	07/27/22 11:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/26/22 10:29	07/27/22 11:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/26/22 10:29	07/27/22 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/26/22 10:29*	*07/27/22 11:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/26/22 10:29*	*07/27/22 11:24*	*1*

Lab Sample ID: LCS 880-30665/1-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30665

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08575		mg/Kg		86	70 - 130		
Toluene			0.100	0.09899		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.08864		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1803		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.1065		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-30665/2-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30665

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09395		mg/Kg		94	70 - 130	9	35

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-30665/2-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30665

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09339		mg/Kg		93	70 - 130	6	35
Ethylbenzene			0.100	0.08016		mg/Kg		80	70 - 130	10	35
m-Xylene & p-Xylene			0.200	0.1615		mg/Kg		81	70 - 130	11	35
o-Xylene			0.100	0.09544		mg/Kg		95	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2602-A-3-D MS
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.08512		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.101	0.09717		mg/Kg		97	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08485		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1725		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U	0.101	0.1032		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2602-A-3-E MSD
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09277		mg/Kg		94	70 - 130	9	35
Toluene	<0.00199	U	0.0990	0.1048		mg/Kg		106	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.0990	0.09261		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1883		mg/Kg		95	70 - 130	9	35
o-Xylene	<0.00199	U	0.0990	0.1121		mg/Kg		113	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-30796/5-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/27/22 10:51	07/27/22 23:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/27/22 10:51	07/27/22 23:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/27/22 10:51	07/27/22 23:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/27/22 10:51	07/27/22 23:50	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-30796/5-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30796

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/27/22 10:51	07/27/22 23:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/27/22 10:51	07/27/22 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/27/22 10:51*	*07/27/22 23:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/27/22 10:51*	*07/27/22 23:50*	*1*

Lab Sample ID: LCS 880-30796/1-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1007		mg/Kg		101	70 - 130		
Toluene			0.100	0.1029		mg/Kg		103	70 - 130		
Ethylbenzene			0.100	0.08841		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1796		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.1046		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-30796/2-A
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30796

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1010		mg/Kg		101	70 - 130	0	35
Toluene			0.100	0.1017		mg/Kg		102	70 - 130	1	35
Ethylbenzene			0.100	0.08578		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1737		mg/Kg		87	70 - 130	3	35
o-Xylene			0.100	0.1008		mg/Kg		101	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-17402-A-2-D MS
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.100	0.09432		mg/Kg		93	70 - 130		
Toluene	0.00229	F1	0.100	0.09433		mg/Kg		92	70 - 130		
Ethylbenzene	0.00281	F1	0.100	0.07991		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	0.00683	F1	0.201	0.1610		mg/Kg		77	70 - 130		
o-Xylene	0.00434	F1	0.100	0.09334		mg/Kg		89	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

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

Lab Sample ID: 880-17402-A-2-D MS
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30796

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-17402-A-2-E MSD
Matrix: Solid
Analysis Batch: 30748

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	0.00229	F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	0.00281	F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	0.00683	F1	0.198	<0.00396	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	0.00434	F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-30893/5-A
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30893

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/30/22 22:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/30/22 22:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/30/22 22:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/28/22 09:46	07/30/22 22:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/22 09:46	07/30/22 22:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/28/22 09:46	07/30/22 22:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/28/22 09:46	07/30/22 22:33	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/22 09:46	07/30/22 22:33	1

Lab Sample ID: LCS 880-30893/1-A
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30893

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07636		mg/Kg		76	70 - 130		
Toluene			0.100	0.07525		mg/Kg		75	70 - 130		
Ethylbenzene			0.100	0.07655		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene			0.200	0.1566		mg/Kg		78	70 - 130		
o-Xylene			0.100	0.08861		mg/Kg		89	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-30893/1-A
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30893

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-30893/2-A
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30893

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08496		mg/Kg		85	70 - 130	11	35
Toluene			0.100	0.08283		mg/Kg		83	70 - 130	10	35
Ethylbenzene			0.100	0.08403		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1660		mg/Kg		83	70 - 130	6	35
o-Xylene			0.100	0.09377		mg/Kg		94	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-17457-A-4-B MS
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.0998	0.008077	F1	mg/Kg		8	70 - 130		
Toluene	0.00237	F1	0.0998	0.01293	F1	mg/Kg		11	70 - 130		
Ethylbenzene	0.00203	F1	0.0998	0.01245	F1	mg/Kg		10	70 - 130		
m-Xylene & p-Xylene	0.00684	F1	0.200	0.02690	F1	mg/Kg		10	70 - 130		
o-Xylene	0.00277	F1	0.0998	0.01677	F1	mg/Kg		14	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-17457-A-4-C MSD
Matrix: Solid
Analysis Batch: 31046

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0994	0.01078	F1	mg/Kg		11	70 - 130	29	35
Toluene	0.00237	F1	0.0994	0.01290	F1	mg/Kg		11	70 - 130	0	35
Ethylbenzene	0.00203	F1	0.0994	0.01203	F1	mg/Kg		10	70 - 130	3	35
m-Xylene & p-Xylene	0.00684	F1	0.199	0.02672	F1	mg/Kg		10	70 - 130	1	35
o-Xylene	0.00277	F1	0.0994	0.01595	F1	mg/Kg		13	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-30658/1-A
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30658

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 10:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 10:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 08:35	07/26/22 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/26/22 08:35*	*07/26/22 10:49*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/26/22 08:35*	*07/26/22 10:49*	*1*

Lab Sample ID: LCS 880-30658/2-A
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1146		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: LCSD 880-30658/3-A
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1009		mg/Kg		101	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-2606-1 MS
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 30658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1102		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	660.1	F1	mg/Kg		66	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2606-1 MS
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 30658

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	70		70 - 130

Lab Sample ID: 890-2606-1 MSD
Matrix: Solid
Analysis Batch: 30649

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 30658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1138		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	702.8		mg/Kg		70	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	71		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: MB 880-30666/1-A
Matrix: Solid
Analysis Batch: 30643

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30666

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/22 10:41	07/26/22 20:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/26/22 10:41	07/26/22 20:25	1
o-Terphenyl	108		70 - 130	07/26/22 10:41	07/26/22 20:25	1

Lab Sample ID: LCS 880-30666/2-A
Matrix: Solid
Analysis Batch: 30643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30666

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1067		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	914.2		mg/Kg		91	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-30666/3-A
Matrix: Solid
Analysis Batch: 30643

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30666

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1056		mg/Kg		106	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	902.3		mg/Kg		90	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-2618-A-1-E MS
Matrix: Solid
Analysis Batch: 30643

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 30666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	1169		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	853.5		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*82*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: 890-2618-A-1-F MSD
Matrix: Solid
Analysis Batch: 30643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 30666

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	999	943.2	F2	mg/Kg		92	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	704.6	F1	mg/Kg		69	70 - 130	19	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*67*	*S1-*	*70 - 130*
o-Terphenyl	*64*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-30599/1-A
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/27/22 00:40	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-30599/2-A
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-30599/3-A
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-17267-A-1-B MS
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	16.4		249	288.5		mg/Kg		109	90 - 110		

Lab Sample ID: 880-17267-A-1-C MSD
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16.4		249	289.5		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 890-2606-9 MS
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: BH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	60.3		249	329.8		mg/Kg		108	90 - 110		

Lab Sample ID: 890-2606-9 MSD
Matrix: Solid
Analysis Batch: 30689

Client Sample ID: BH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	60.3		249	329.7		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

GC VOA

Prep Batch: 30595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30595/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 30665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	5035	
890-2606-2	BH01	Total/NA	Solid	5035	
890-2606-3	BH02	Total/NA	Solid	5035	
890-2606-4	BH02	Total/NA	Solid	5035	
890-2606-5	BH03	Total/NA	Solid	5035	
890-2606-6	BH03	Total/NA	Solid	5035	
MB 880-30665/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30665/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30665/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2602-A-3-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2602-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	8021B	30665
890-2606-2	BH01	Total/NA	Solid	8021B	30665
890-2606-3	BH02	Total/NA	Solid	8021B	30665
890-2606-4	BH02	Total/NA	Solid	8021B	30665
890-2606-5	BH03	Total/NA	Solid	8021B	30665
890-2606-6	BH03	Total/NA	Solid	8021B	30665
MB 880-30665/5-A	Method Blank	Total/NA	Solid	8021B	30665
MB 880-30796/5-A	Method Blank	Total/NA	Solid	8021B	30796
LCS 880-30665/1-A	Lab Control Sample	Total/NA	Solid	8021B	30665
LCS 880-30796/1-A	Lab Control Sample	Total/NA	Solid	8021B	30796
LCSD 880-30665/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30665
LCSD 880-30796/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30796
880-17402-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	30796
880-17402-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30796
890-2602-A-3-D MS	Matrix Spike	Total/NA	Solid	8021B	30665
890-2602-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30665

Prep Batch: 30796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-30796/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30796/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30796/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17402-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17402-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	Total BTEX	
890-2606-2	BH01	Total/NA	Solid	Total BTEX	
890-2606-3	BH02	Total/NA	Solid	Total BTEX	
890-2606-4	BH02	Total/NA	Solid	Total BTEX	
890-2606-5	BH03	Total/NA	Solid	Total BTEX	
890-2606-6	BH03	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 30854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-7	BH04	Total/NA	Solid	Total BTEX	
890-2606-8	BH04	Total/NA	Solid	Total BTEX	
890-2606-9	BH05	Total/NA	Solid	Total BTEX	
890-2606-10	BH05	Total/NA	Solid	Total BTEX	
890-2606-11	BH06	Total/NA	Solid	Total BTEX	
890-2606-12	BH06	Total/NA	Solid	Total BTEX	
890-2606-13	BH07	Total/NA	Solid	Total BTEX	
890-2606-14	BH07	Total/NA	Solid	Total BTEX	
890-2606-15	BH08	Total/NA	Solid	Total BTEX	
890-2606-16	BH08	Total/NA	Solid	Total BTEX	

Prep Batch: 30893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-7	BH04	Total/NA	Solid	5035	
890-2606-8	BH04	Total/NA	Solid	5035	
890-2606-9	BH05	Total/NA	Solid	5035	
890-2606-10	BH05	Total/NA	Solid	5035	
890-2606-11	BH06	Total/NA	Solid	5035	
890-2606-12	BH06	Total/NA	Solid	5035	
890-2606-13	BH07	Total/NA	Solid	5035	
890-2606-14	BH07	Total/NA	Solid	5035	
890-2606-15	BH08	Total/NA	Solid	5035	
890-2606-16	BH08	Total/NA	Solid	5035	
MB 880-30893/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30893/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30893/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17457-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-17457-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-7	BH04	Total/NA	Solid	8021B	30893
890-2606-8	BH04	Total/NA	Solid	8021B	30893
890-2606-9	BH05	Total/NA	Solid	8021B	30893
890-2606-10	BH05	Total/NA	Solid	8021B	30893
890-2606-11	BH06	Total/NA	Solid	8021B	30893
890-2606-12	BH06	Total/NA	Solid	8021B	30893
890-2606-13	BH07	Total/NA	Solid	8021B	30893
890-2606-14	BH07	Total/NA	Solid	8021B	30893
890-2606-15	BH08	Total/NA	Solid	8021B	30893
890-2606-16	BH08	Total/NA	Solid	8021B	30893
MB 880-30595/5-A	Method Blank	Total/NA	Solid	8021B	30595
MB 880-30893/5-A	Method Blank	Total/NA	Solid	8021B	30893
LCS 880-30893/1-A	Lab Control Sample	Total/NA	Solid	8021B	30893
LCSD 880-30893/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30893
880-17457-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	30893
880-17457-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	30893

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

GC Semi VOA

Analysis Batch: 30643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-16	BH08	Total/NA	Solid	8015B NM	30666
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015B NM	30666
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30666
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30666
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	30666
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	30666

Analysis Batch: 30649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	8015B NM	30658
890-2606-2	BH01	Total/NA	Solid	8015B NM	30658
890-2606-3	BH02	Total/NA	Solid	8015B NM	30658
890-2606-4	BH02	Total/NA	Solid	8015B NM	30658
890-2606-5	BH03	Total/NA	Solid	8015B NM	30658
890-2606-6	BH03	Total/NA	Solid	8015B NM	30658
890-2606-7	BH04	Total/NA	Solid	8015B NM	30658
890-2606-8	BH04	Total/NA	Solid	8015B NM	30658
890-2606-9	BH05	Total/NA	Solid	8015B NM	30658
890-2606-10	BH05	Total/NA	Solid	8015B NM	30658
890-2606-11	BH06	Total/NA	Solid	8015B NM	30658
890-2606-12	BH06	Total/NA	Solid	8015B NM	30658
890-2606-13	BH07	Total/NA	Solid	8015B NM	30658
890-2606-14	BH07	Total/NA	Solid	8015B NM	30658
890-2606-15	BH08	Total/NA	Solid	8015B NM	30658
MB 880-30658/1-A	Method Blank	Total/NA	Solid	8015B NM	30658
LCS 880-30658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	30658
LCSD 880-30658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	30658
890-2606-1 MS	BH01	Total/NA	Solid	8015B NM	30658
890-2606-1 MSD	BH01	Total/NA	Solid	8015B NM	30658

Prep Batch: 30658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	8015NM Prep	
890-2606-2	BH01	Total/NA	Solid	8015NM Prep	
890-2606-3	BH02	Total/NA	Solid	8015NM Prep	
890-2606-4	BH02	Total/NA	Solid	8015NM Prep	
890-2606-5	BH03	Total/NA	Solid	8015NM Prep	
890-2606-6	BH03	Total/NA	Solid	8015NM Prep	
890-2606-7	BH04	Total/NA	Solid	8015NM Prep	
890-2606-8	BH04	Total/NA	Solid	8015NM Prep	
890-2606-9	BH05	Total/NA	Solid	8015NM Prep	
890-2606-10	BH05	Total/NA	Solid	8015NM Prep	
890-2606-11	BH06	Total/NA	Solid	8015NM Prep	
890-2606-12	BH06	Total/NA	Solid	8015NM Prep	
890-2606-13	BH07	Total/NA	Solid	8015NM Prep	
890-2606-14	BH07	Total/NA	Solid	8015NM Prep	
890-2606-15	BH08	Total/NA	Solid	8015NM Prep	
MB 880-30658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2606-1 MS	BH01	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 30658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 30666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-16	BH08	Total/NA	Solid	8015NM Prep	
MB 880-30666/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-30666/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-30666/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2618-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2618-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 30768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Total/NA	Solid	8015 NM	
890-2606-2	BH01	Total/NA	Solid	8015 NM	
890-2606-3	BH02	Total/NA	Solid	8015 NM	
890-2606-4	BH02	Total/NA	Solid	8015 NM	
890-2606-5	BH03	Total/NA	Solid	8015 NM	
890-2606-6	BH03	Total/NA	Solid	8015 NM	
890-2606-7	BH04	Total/NA	Solid	8015 NM	
890-2606-8	BH04	Total/NA	Solid	8015 NM	
890-2606-9	BH05	Total/NA	Solid	8015 NM	
890-2606-10	BH05	Total/NA	Solid	8015 NM	
890-2606-11	BH06	Total/NA	Solid	8015 NM	
890-2606-12	BH06	Total/NA	Solid	8015 NM	
890-2606-13	BH07	Total/NA	Solid	8015 NM	
890-2606-14	BH07	Total/NA	Solid	8015 NM	
890-2606-15	BH08	Total/NA	Solid	8015 NM	
890-2606-16	BH08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 30599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Soluble	Solid	DI Leach	
890-2606-2	BH01	Soluble	Solid	DI Leach	
890-2606-3	BH02	Soluble	Solid	DI Leach	
890-2606-4	BH02	Soluble	Solid	DI Leach	
890-2606-5	BH03	Soluble	Solid	DI Leach	
890-2606-6	BH03	Soluble	Solid	DI Leach	
890-2606-7	BH04	Soluble	Solid	DI Leach	
890-2606-8	BH04	Soluble	Solid	DI Leach	
890-2606-9	BH05	Soluble	Solid	DI Leach	
890-2606-10	BH05	Soluble	Solid	DI Leach	
890-2606-11	BH06	Soluble	Solid	DI Leach	
890-2606-12	BH06	Soluble	Solid	DI Leach	
890-2606-13	BH07	Soluble	Solid	DI Leach	
890-2606-14	BH07	Soluble	Solid	DI Leach	
890-2606-15	BH08	Soluble	Solid	DI Leach	
890-2606-16	BH08	Soluble	Solid	DI Leach	
MB 880-30599/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 30599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-30599/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-30599/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17267-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17267-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2606-9 MS	BH05	Soluble	Solid	DI Leach	
890-2606-9 MSD	BH05	Soluble	Solid	DI Leach	

Analysis Batch: 30689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2606-1	BH01	Soluble	Solid	300.0	30599
890-2606-2	BH01	Soluble	Solid	300.0	30599
890-2606-3	BH02	Soluble	Solid	300.0	30599
890-2606-4	BH02	Soluble	Solid	300.0	30599
890-2606-5	BH03	Soluble	Solid	300.0	30599
890-2606-6	BH03	Soluble	Solid	300.0	30599
890-2606-7	BH04	Soluble	Solid	300.0	30599
890-2606-8	BH04	Soluble	Solid	300.0	30599
890-2606-9	BH05	Soluble	Solid	300.0	30599
890-2606-10	BH05	Soluble	Solid	300.0	30599
890-2606-11	BH06	Soluble	Solid	300.0	30599
890-2606-12	BH06	Soluble	Solid	300.0	30599
890-2606-13	BH07	Soluble	Solid	300.0	30599
890-2606-14	BH07	Soluble	Solid	300.0	30599
890-2606-15	BH08	Soluble	Solid	300.0	30599
890-2606-16	BH08	Soluble	Solid	300.0	30599
MB 880-30599/1-A	Method Blank	Soluble	Solid	300.0	30599
LCS 880-30599/2-A	Lab Control Sample	Soluble	Solid	300.0	30599
LCSD 880-30599/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	30599
880-17267-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	30599
880-17267-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	30599
890-2606-9 MS	BH05	Soluble	Solid	300.0	30599
890-2606-9 MSD	BH05	Soluble	Solid	300.0	30599

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH01
Date Collected: 07/20/22 09:05
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 14:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 11:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		5			30689	07/27/22 01:35	CH	XEN MID

Client Sample ID: BH01
Date Collected: 07/20/22 09:10
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 14:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		5			30689	07/27/22 01:42	CH	XEN MID

Client Sample ID: BH02
Date Collected: 07/20/22 09:15
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 14:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		5			30689	07/27/22 01:50	CH	XEN MID

Client Sample ID: BH02
Date Collected: 07/20/22 09:20
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 17:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH02
Date Collected: 07/20/22 09:20
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 02:14	CH	XEN MID

Client Sample ID: BH03
Date Collected: 07/20/22 09:25
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 17:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		5			30689	07/27/22 02:22	CH	XEN MID

Client Sample ID: BH03
Date Collected: 07/20/22 09:30
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30665	07/26/22 10:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30748	07/27/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 14:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 02:29	CH	XEN MID

Client Sample ID: BH04
Date Collected: 07/20/22 09:35
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 03:20	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 14:45	AJ	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH04
Date Collected: 07/20/22 09:35
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 02:37	CH	XEN MID

Client Sample ID: BH04
Date Collected: 07/20/22 09:40
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 03:41	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 15:06	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 02:45	CH	XEN MID

Client Sample ID: BH05
Date Collected: 07/20/22 09:45
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 04:01	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 15:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 02:53	CH	XEN MID

Client Sample ID: BH05
Date Collected: 07/20/22 09:50
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 04:21	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 15:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 03:16	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH06
Date Collected: 07/20/22 10:00
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 04:42	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 03:24	CH	XEN MID

Client Sample ID: BH06
Date Collected: 07/20/22 10:10
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 05:02	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 16:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 03:48	CH	XEN MID

Client Sample ID: BH07
Date Collected: 07/20/22 10:20
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 05:23	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 03:56	CH	XEN MID

Client Sample ID: BH07
Date Collected: 07/20/22 10:30
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 05:43	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Client Sample ID: BH07

Date Collected: 07/20/22 10:30
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 04:04	CH	XEN MID

Client Sample ID: BH08

Date Collected: 07/20/22 10:40
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 06:04	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	30658	07/26/22 08:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30649	07/26/22 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 04:11	CH	XEN MID

Client Sample ID: BH08

Date Collected: 07/20/22 10:50
Date Received: 07/21/22 09:40

Lab Sample ID: 890-2606-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	30893	07/28/22 09:46	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31046	07/31/22 06:24	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			30854	07/27/22 18:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			30768	07/27/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	30666	07/26/22 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			30643	07/27/22 01:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	30599	07/25/22 15:17	KS	XEN MID
Soluble	Analysis	300.0		1			30689	07/27/22 04:19	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2606-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2606-1	BH01	Solid	07/20/22 09:05	07/21/22 09:40	1
890-2606-2	BH01	Solid	07/20/22 09:10	07/21/22 09:40	4
890-2606-3	BH02	Solid	07/20/22 09:15	07/21/22 09:40	2
890-2606-4	BH02	Solid	07/20/22 09:20	07/21/22 09:40	4
890-2606-5	BH03	Solid	07/20/22 09:25	07/21/22 09:40	2
890-2606-6	BH03	Solid	07/20/22 09:30	07/21/22 09:40	4
890-2606-7	BH04	Solid	07/20/22 09:35	07/21/22 09:40	1
890-2606-8	BH04	Solid	07/20/22 09:40	07/21/22 09:40	4
890-2606-9	BH05	Solid	07/20/22 09:45	07/21/22 09:40	1
890-2606-10	BH05	Solid	07/20/22 09:50	07/21/22 09:40	4
890-2606-11	BH06	Solid	07/20/22 10:00	07/21/22 09:40	1
890-2606-12	BH06	Solid	07/20/22 10:10	07/21/22 09:40	4
890-2606-13	BH07	Solid	07/20/22 10:20	07/21/22 09:40	1
890-2606-14	BH07	Solid	07/20/22 10:30	07/21/22 09:40	4
890-2606-15	BH08	Solid	07/20/22 10:40	07/21/22 09:40	1
890-2606-16	BH08	Solid	07/20/22 10:50	07/21/22 09:40	4

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

CP. Cooling In Process

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Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around	
Project Number:	03D2024010	☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	5 Day TAT
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm	
CC #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	18.3	
Total Containers:		Corrected Temperature:	18.1	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-2606 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
BH01	S	7.20.22	9:05	1'	Grab/	1		X	X	X
BH01	S	7.20.22	9:10	4'	Grab/	1		X	X	X
BH02	S	7.20.22	9:15	2'	Grab/	1		X	X	X
BH02	S	7.20.22	9:20	4'	Grab/	1		X	X	X
BH03	S	7.20.22	9:25	2'	Grab/	1		X	X	X
BH03	S	7.20.22	9:30	4'	Grab/	1		X	X	X
BH04	S	7.20.22	9:35	1'	Grab/	1		X	X	X
BH04	S	7.20.22	9:40	4'	Grab/	1		X	X	X
BH05	S	7.20.22	9:45	1'	Grab/	1		X	X	X
BH05	S	7.20.22	9:50	4'	Grab/	1		X	X	X

Sample Comments

Incident Numbers

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.21.22 0940			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks HWY	Address:	3122 National Parks HWY
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	**Turn Around**	
Project Number:	03D2024010	☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	5 Day TAT
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm	
CC #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
BH06	S	7.20.22	10:00	1'	Grab/	1		X	X	X
BH06	S	7.20.22	10:10	4'	Grab/	1		X	X	X
BH07	S	7.20.22	10:20	1'	Grab/	1		X	X	X
BH07	S	7.20.22	10:30	4'	Grab/	1		X	X	X
BH08	S	7.20.22	10:40	1'	Grab/	1		X	X	X
BH08	S	7.20.22	10:50	4'	Grab/	1		X	X	X

Parameters

Sample Comments

Incident Numbers

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.21.22 0940	4		
3			6		
5					

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2606-1
SDG Number: Lea County NM

Login Number: 2606
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2606-1
SDG Number: Lea County NM

Login Number: 2606
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/22/22 10:18 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2690-1
Laboratory Sample Delivery Group: 03D2024010
Client Project/Site: King Tut Federal Com 001H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/12/2022 7:53:16 AM

Jessica Kramer, Project Manager
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Laboratory Job ID: 890-2690-1
SDG: 03D2024010

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Definitions/Glossary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
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Job ID: 890-2690-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2690-1

Receipt
The samples were received on 8/1/2022 8:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FS07 (890-2690-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31680 and analytical batch 880-31685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: o-Xylene biased high in LCS. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-31680/1-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31801 and analytical batch 880-31685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31417 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-2690-3) and FS04 (890-2690-4). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31444 and analytical batch 880-31665 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31429 and analytical batch 880-31662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS01

Lab Sample ID: 890-2690-1
Matrix: Solid
Date Collected: 07/26/22 14:05
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 15:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 15:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 15:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 08:17	08/08/22 15:09	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/08/22 08:17	08/08/22 15:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 08:17	08/08/22 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/08/22 08:17*	*08/08/22 15:09*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/08/22 08:17*	*08/08/22 15:09*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/03/22 13:28*	*08/04/22 14:46*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/03/22 13:28*	*08/04/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**620**	**F1**	4.98		mg/Kg			08/09/22 14:38	1

Client Sample ID: FS02

Lab Sample ID: 890-2690-2
Matrix: Solid
Date Collected: 07/28/22 13:00
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 21:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 21:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 21:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/05/22 21:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 21:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/05/22 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/05/22 11:28*	*08/05/22 21:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS02

Lab Sample ID: 890-2690-2
Matrix: Solid
Date Collected: 07/28/22 13:00
Date Received: 08/01/22 08:23
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/05/22 11:28*	*08/05/22 21:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 15:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*97*		*70 - 130*	*08/03/22 13:28*	*08/04/22 15:07*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/03/22 13:28*	*08/04/22 15:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		5.03		mg/Kg			08/09/22 15:02	1

Client Sample ID: FS03

Lab Sample ID: 890-2690-3
Matrix: Solid
Date Collected: 07/28/22 13:05
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 22:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 22:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 22:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/05/22 11:28	08/05/22 22:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 22:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/05/22 11:28	08/05/22 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/05/22 11:28*	*08/05/22 22:12*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/05/22 11:28*	*08/05/22 22:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.1**		50.0		mg/Kg			08/05/22 08:59	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS03

Lab Sample ID: 890-2690-3
Matrix: Solid
Date Collected: 07/28/22 13:05
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 15:55	1
Diesel Range Organics (Over C10-C28)	**61.1**		50.0		mg/Kg		08/03/22 13:28	08/04/22 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/03/22 13:28*	*08/04/22 15:55*	*1*
o-Terphenyl	*0.06*	*S1-*	*70 - 130*	*08/03/22 13:28*	*08/04/22 15:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.8**		5.05		mg/Kg			08/09/22 15:10	1

Client Sample ID: FS04

Lab Sample ID: 890-2690-4
Matrix: Solid
Date Collected: 07/28/22 13:10
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:28	08/05/22 23:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:28	08/05/22 23:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:28	08/05/22 23:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/05/22 11:28	08/05/22 23:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:28	08/05/22 23:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/05/22 11:28	08/05/22 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/05/22 11:28*	*08/05/22 23:37*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/05/22 11:28*	*08/05/22 23:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**71.4**		50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 16:16	1
Diesel Range Organics (Over C10-C28)	**71.4**		50.0		mg/Kg		08/03/22 13:28	08/04/22 16:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/03/22 13:28*	*08/04/22 16:16*	*1*
o-Terphenyl	*0.05*	*S1-*	*70 - 130*	*08/03/22 13:28*	*08/04/22 16:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS04

Lab Sample ID: 890-2690-4
Matrix: Solid
Date Collected: 07/28/22 13:10
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470	F1	24.9		mg/Kg			08/11/22 19:45	5

Client Sample ID: FS05

Lab Sample ID: 890-2690-5
Matrix: Solid
Date Collected: 07/28/22 13:15
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 23:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 23:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 23:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/05/22 23:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/05/22 23:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/05/22 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/05/22 11:28*	*08/05/22 23:57*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/05/22 11:28*	*08/05/22 23:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 16:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 16:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/03/22 13:28*	*08/04/22 16:38*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/03/22 13:28*	*08/04/22 16:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.98		mg/Kg			08/11/22 20:09	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS06

Lab Sample ID: 890-2690-6
Matrix: Solid
Date Collected: 07/28/22 13:20
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 00:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:28	08/06/22 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 00:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:28	08/06/22 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/05/22 11:28*	*08/06/22 00:18*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/05/22 11:28*	*08/06/22 00:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/03/22 13:28	08/04/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/22 13:28	08/04/22 16:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/22 13:28	08/04/22 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/03/22 13:28*	*08/04/22 16:59*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/03/22 13:28*	*08/04/22 16:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**373**		5.04		mg/Kg			08/11/22 20:17	1

Client Sample ID: FS07

Lab Sample ID: 890-2690-7
Matrix: Solid
Date Collected: 07/28/22 13:25
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 00:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 00:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 00:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 00:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 00:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*70 - 130*	*08/05/22 11:28*	*08/06/22 00:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS07

Lab Sample ID: 890-2690-7
Matrix: Solid
Date Collected: 07/28/22 13:25
Date Received: 08/01/22 08:23
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/05/22 11:28*	*08/06/22 00:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 17:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 17:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*100*		*70 - 130*	*08/03/22 13:28*	*08/04/22 17:21*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/03/22 13:28*	*08/04/22 17:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3180**		25.1		mg/Kg			08/11/22 20:25	5

Client Sample ID: FS08

Lab Sample ID: 890-2690-8
Matrix: Solid
Date Collected: 07/28/22 13:15
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/05/22 11:28	08/06/22 01:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/05/22 11:28	08/06/22 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/05/22 08:59	1

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Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS08

Lab Sample ID: 890-2690-8
Matrix: Solid
Date Collected: 07/28/22 13:15
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 17:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/03/22 13:28*	*08/04/22 17:43*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/03/22 13:28*	*08/04/22 17:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73.1**		5.02		mg/Kg			08/11/22 20:33	1

Client Sample ID: FS09

Lab Sample ID: 890-2690-9
Matrix: Solid
Date Collected: 07/28/22 13:30
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/06/22 01:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/06/22 01:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/06/22 01:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/06/22 01:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:28	08/06/22 01:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:28	08/06/22 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:21*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:05*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS09

Lab Sample ID: 890-2690-9
Matrix: Solid
Date Collected: 07/28/22 13:30
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1610		25.2		mg/Kg			08/11/22 21:20	5

Client Sample ID: FS10

Lab Sample ID: 890-2690-10
Matrix: Solid
Date Collected: 07/28/22 13:35
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:28	08/06/22 01:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/06/22 01:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:28	08/06/22 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/05/22 11:28*	*08/06/22 01:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:26*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.2		4.97		mg/Kg			08/11/22 22:12	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS11

Lab Sample ID: 890-2690-11
Matrix: Solid
Date Collected: 07/29/22 13:20
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 02:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:02*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 13:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 13:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/03/22 15:56*	*08/04/22 13:40*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/03/22 15:56*	*08/04/22 13:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**586**		4.99		mg/Kg			08/11/22 22:20	1

Client Sample ID: FS12

Lab Sample ID: 890-2690-12
Matrix: Solid
Date Collected: 07/29/22 13:25
Date Received: 08/01/22 08:23
Sample Depth: 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 02:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:28	08/06/22 02:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:28	08/06/22 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:23*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS12

Date Collected: 07/29/22 13:25
Date Received: 08/01/22 08:23
Sample Depth: 4'

Lab Sample ID: 890-2690-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:02*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2210**		25.0	mg/Kg			08/11/22 22:28	5

Client Sample ID: FS13

Date Collected: 07/29/22 13:30
Date Received: 08/01/22 08:23
Sample Depth: 4'

Lab Sample ID: 890-2690-13
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/06/22 02:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/06/22 02:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/06/22 02:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/05/22 11:28	08/06/22 02:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/05/22 11:28	08/06/22 02:44	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/05/22 11:28	08/06/22 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:44*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*08/05/22 11:28*	*08/06/22 02:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/08/22 15:42	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/05/22 08:59	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS13

Date Collected: 07/29/22 13:30
Date Received: 08/01/22 08:23
Sample Depth: 4'

Lab Sample ID: 890-2690-13

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 14:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:24*	*1*
o-Terphenyl	*98*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**357**		5.00		mg/Kg			08/11/22 22:36	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-17510-A-1-D MS	Matrix Spike	94	107
880-17510-A-1-E MSD	Matrix Spike Duplicate	99	99
880-17530-A-5-E MS	Matrix Spike	125	97
880-17530-A-5-F MSD	Matrix Spike Duplicate	128	103
880-17833-A-1-A MS	Matrix Spike	106	94
880-17833-A-1-B MSD	Matrix Spike Duplicate	112	92
890-2690-1	FS01	114	93
890-2690-2	FS02	114	98
890-2690-3	FS03	105	110
890-2690-4	FS04	103	98
890-2690-5	FS05	103	112
890-2690-6	FS06	105	100
890-2690-7	FS07	146 S1+	91
890-2690-8	FS08	104	94
890-2690-9	FS09	105	108
890-2690-10	FS10	106	107
890-2690-11	FS11	105	86
890-2690-12	FS12	107	109
890-2690-13	FS13	98	112
LCS 880-31574/1-A	Lab Control Sample	90	105
LCS 880-31680/1-A	Lab Control Sample	125	92
LCS 880-31801/1-A	Lab Control Sample	103	97
LCSD 880-31574/2-A	Lab Control Sample Dup	108	103
LCSD 880-31680/2-A	Lab Control Sample Dup	106	95
LCSD 880-31801/2-A	Lab Control Sample Dup	106	97
MB 880-31574/5-A	Method Blank	94	95
MB 880-31680/5-A	Method Blank	98	90
MB 880-31801/5-A	Method Blank	104	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-17530-A-1-E MS	Matrix Spike	79	79
880-17530-A-1-F MSD	Matrix Spike Duplicate	81	90
880-17544-A-1-D MS	Matrix Spike	69 S1-	73
880-17544-A-1-E MSD	Matrix Spike Duplicate	79	81
890-2690-1	FS01	101	111
890-2690-2	FS02	97	105
890-2690-3	FS03	84	0.06 S1-
890-2690-4	FS04	100	0.05 S1-
890-2690-5	FS05	103	112
890-2690-6	FS06	98	107
890-2690-7	FS07	100	108

Surrogate Summary

Client: Ensolum Job ID: 890-2690-1
Project/Site: King Tut Federal Com 001H SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-2690-8	FS08	103	113										
890-2690-9	FS09	97	107										
890-2690-10	FS10	101	108										
890-2690-11	FS11	81	99										
890-2690-12	FS12	83	101										
890-2690-13	FS13	83	98										
LCS 880-31417/2-A	Lab Control Sample	124	130										
LCS 880-31439/2-A	Lab Control Sample	86	97										
LCSD 880-31417/3-A	Lab Control Sample Dup	123	127										
LCSD 880-31439/3-A	Lab Control Sample Dup	88	101										
MB 880-31417/1-A	Method Blank	82	98										
MB 880-31439/1-A	Method Blank	96	118										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31574/5-A
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31574

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 18:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 11:28	08/05/22 18:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:28	08/05/22 18:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 11:28	08/05/22 18:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/05/22 11:28*	*08/05/22 18:43*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/05/22 11:28*	*08/05/22 18:43*	*1*

Lab Sample ID: LCS 880-31574/1-A
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31574

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1178		mg/Kg		118	70 - 130		
Toluene			0.100	0.1060		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.08769		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1821		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08916		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-31574/2-A
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31574

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08890		mg/Kg		89	70 - 130	28	35
Toluene			0.100	0.1103		mg/Kg		110	70 - 130	4	35
Ethylbenzene			0.100	0.1009		mg/Kg		101	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2213		mg/Kg		111	70 - 130	19	35
o-Xylene			0.100	0.1081		mg/Kg		108	70 - 130	19	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-17510-A-1-D MS
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1056		mg/Kg		105	70 - 130		
Toluene	<0.00200	U	0.100	0.09624		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

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

Lab Sample ID: 880-17510-A-1-D MS
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08030		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.00528		0.201	0.1651		mg/Kg		80	70 - 130
o-Xylene	0.00401		0.100	0.08112		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-17510-A-1-E MSD
Matrix: Solid
Analysis Batch: 31617

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.08498		mg/Kg		85	70 - 130	22	35
Toluene	<0.00200	U	0.0998	0.09819		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0998	0.08653		mg/Kg		85	70 - 130	7	35
m-Xylene & p-Xylene	0.00528		0.200	0.1858		mg/Kg		90	70 - 130	12	35
o-Xylene	0.00401		0.0998	0.09094		mg/Kg		87	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-31680/5-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31680

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 08:17	08/08/22 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 08:17	08/08/22 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 08:17	08/08/22 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/08/22 08:17*	*08/08/22 12:03*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/08/22 08:17*	*08/08/22 12:03*	*1*

Lab Sample ID: LCS 880-31680/1-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31680

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09608		mg/Kg		96	70 - 130
Toluene			0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene			0.100	0.1185		mg/Kg		118	70 - 130
m-Xylene & p-Xylene			0.200	0.2507		mg/Kg		125	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

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

Lab Sample ID: LCS 880-31680/1-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31680

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1380	*+	mg/Kg		138	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-31680/2-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31680

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1071		mg/Kg		107	70 - 130	11	35
Toluene			0.100	0.1066		mg/Kg		107	70 - 130	1	35
Ethylbenzene			0.100	0.1143		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2280		mg/Kg		114	70 - 130	10	35
o-Xylene			0.100	0.1244		mg/Kg		124	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-17530-A-5-E MS
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1066		mg/Kg		105	70 - 130		
Toluene	<0.00199	U	0.101	0.1147		mg/Kg		114	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.1313		mg/Kg		130	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.2708	F1	mg/Kg		134	70 - 130		
o-Xylene	<0.00199	U F1 *+	0.101	0.1474	F1	mg/Kg		146	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-17530-A-5-F MSD
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1056		mg/Kg		105	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.1115		mg/Kg		111	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.1213		mg/Kg		121	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.2484		mg/Kg		124	70 - 130	9	35
o-Xylene	<0.00199	U F1 *+	0.100	0.1355	F1	mg/Kg		135	70 - 130	8	35

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

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

Lab Sample ID: 880-17530-A-5-F MSD
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31680

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-31801/5-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31801

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 15:42	08/08/22 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 15:42	08/08/22 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 15:42	08/08/22 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 15:42	08/08/22 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 15:42	08/08/22 22:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/08/22 15:42	08/08/22 22:58	1

Lab Sample ID: LCS 880-31801/1-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1012		mg/Kg		101	70 - 130		
Toluene			0.100	0.09868		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2069		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1139		mg/Kg		114	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-31801/2-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09009		mg/Kg		90	70 - 130	12	35
Toluene			0.100	0.08972		mg/Kg		90	70 - 130	10	35
Ethylbenzene			0.100	0.09649		mg/Kg		96	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1946		mg/Kg		97	70 - 130	6	35
o-Xylene			0.100	0.1077		mg/Kg		108	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

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

Lab Sample ID: LCSD 880-31801/2-A
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31801

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-17833-A-1-A MS
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0998	0.05435	F1	mg/Kg		54	70 - 130
Toluene	<0.00201	U F1	0.0998	0.03513	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.02412	F1	mg/Kg		24	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.04804	F1	mg/Kg		24	70 - 130
o-Xylene	<0.00201	U F1 F2	0.0998	0.02474	F1	mg/Kg		25	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-17833-A-1-B MSD
Matrix: Solid
Analysis Batch: 31685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0996	0.04430	F1	mg/Kg		44	70 - 130	20	35
Toluene	<0.00201	U F1	0.0996	0.02686	F1	mg/Kg		27	70 - 130	27	35
Ethylbenzene	<0.00201	U F1	0.0996	0.01866	F1	mg/Kg		19	70 - 130	26	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.03797	F1	mg/Kg		19	70 - 130	23	35
o-Xylene	<0.00201	U F1 F2	0.0996	0.01578	F1 F2	mg/Kg		16	70 - 130	44	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31417/1-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31417

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 13:28	08/04/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 13:28	08/04/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 13:28	08/04/22 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/03/22 13:28	08/04/22 10:03	1
o-Terphenyl	98		70 - 130	08/03/22 13:28	08/04/22 10:03	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-31417/2-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1000		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*130*		*70 - 130*

Lab Sample ID: LCSD 880-31417/3-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.6		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	958.9		mg/Kg		96	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: 880-17530-A-1-E MS
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1036		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	624.2	F1	mg/Kg		62	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 880-17530-A-1-F MSD
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1002		mg/Kg		100	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	720.1		mg/Kg		72	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17530-A-1-F MSD
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31417

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	90		70 - 130

Lab Sample ID: MB 880-31439/1-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31439

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/03/22 15:56	08/04/22 10:03	1
o-Terphenyl	118		70 - 130	08/03/22 15:56	08/04/22 10:03	1

Lab Sample ID: LCS 880-31439/2-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31439

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	974.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	955.3		mg/Kg		96	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-31439/3-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	985.7		mg/Kg		99	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17544-A-1-D MS
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	936.9		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	766.8		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 880-17544-A-1-E MSD
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	908.2		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	866.8		mg/Kg		87	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31429/1-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 19:22	1

Lab Sample ID: LCS 880-31429/2-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	241.3		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-31429/3-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.5		mg/Kg		97	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2690-4 MS
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: FS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1470	F1	1250	3453	F1	mg/Kg		159	90 - 110

Lab Sample ID: 890-2690-4 MSD
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: FS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1470	F1	1250	3454	F1	mg/Kg		159	90 - 110	0	20

Lab Sample ID: 890-2691-A-1-E MS
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	663	F1	251	876.5	F1	mg/Kg		85	90 - 110

Lab Sample ID: 890-2691-A-1-F MSD
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	663	F1	251	884.5	F1	mg/Kg		89	90 - 110	1	20

Lab Sample ID: MB 880-31444/1-A
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/09/22 14:15	1

Lab Sample ID: LCS 880-31444/2-A
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	233.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-31444/3-A
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-2690-1 MS
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	620	F1	249	828.0	F1	mg/Kg		83	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2690-1 MSD
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	620	F1	249	833.1	F1	mg/Kg		85	90 - 110	1	20

Lab Sample ID: 890-2695-A-4-C MS
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	81.0		251	328.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-2695-A-4-D MSD
Matrix: Solid
Analysis Batch: 31665

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	81.0		251	327.2		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

GC VOA

Prep Batch: 31574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-2	FS02	Total/NA	Solid	5035	
890-2690-3	FS03	Total/NA	Solid	5035	
890-2690-4	FS04	Total/NA	Solid	5035	
890-2690-5	FS05	Total/NA	Solid	5035	
890-2690-6	FS06	Total/NA	Solid	5035	
890-2690-7	FS07	Total/NA	Solid	5035	
890-2690-8	FS08	Total/NA	Solid	5035	
890-2690-9	FS09	Total/NA	Solid	5035	
890-2690-10	FS10	Total/NA	Solid	5035	
890-2690-11	FS11	Total/NA	Solid	5035	
890-2690-12	FS12	Total/NA	Solid	5035	
890-2690-13	FS13	Total/NA	Solid	5035	
MB 880-31574/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31574/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31574/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17510-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17510-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-2	FS02	Total/NA	Solid	8021B	31574
890-2690-3	FS03	Total/NA	Solid	8021B	31574
890-2690-4	FS04	Total/NA	Solid	8021B	31574
890-2690-5	FS05	Total/NA	Solid	8021B	31574
890-2690-6	FS06	Total/NA	Solid	8021B	31574
890-2690-7	FS07	Total/NA	Solid	8021B	31574
890-2690-8	FS08	Total/NA	Solid	8021B	31574
890-2690-9	FS09	Total/NA	Solid	8021B	31574
890-2690-10	FS10	Total/NA	Solid	8021B	31574
890-2690-11	FS11	Total/NA	Solid	8021B	31574
890-2690-12	FS12	Total/NA	Solid	8021B	31574
890-2690-13	FS13	Total/NA	Solid	8021B	31574
MB 880-31574/5-A	Method Blank	Total/NA	Solid	8021B	31574
LCS 880-31574/1-A	Lab Control Sample	Total/NA	Solid	8021B	31574
LCSD 880-31574/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31574
880-17510-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	31574
880-17510-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31574

Prep Batch: 31680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	5035	
MB 880-31680/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	8021B	31680
MB 880-31680/5-A	Method Blank	Total/NA	Solid	8021B	31680

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

GC VOA (Continued)

Analysis Batch: 31685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31801/5-A	Method Blank	Total/NA	Solid	8021B	31801
LCS 880-31680/1-A	Lab Control Sample	Total/NA	Solid	8021B	31680
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	8021B	31801
LCSD 880-31680/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31680
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31801
880-17530-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	31680
880-17530-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31680
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	31801
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31801

Analysis Batch: 31800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	Total BTEX	
890-2690-2	FS02	Total/NA	Solid	Total BTEX	
890-2690-3	FS03	Total/NA	Solid	Total BTEX	
890-2690-4	FS04	Total/NA	Solid	Total BTEX	
890-2690-5	FS05	Total/NA	Solid	Total BTEX	
890-2690-6	FS06	Total/NA	Solid	Total BTEX	
890-2690-7	FS07	Total/NA	Solid	Total BTEX	
890-2690-8	FS08	Total/NA	Solid	Total BTEX	
890-2690-9	FS09	Total/NA	Solid	Total BTEX	
890-2690-10	FS10	Total/NA	Solid	Total BTEX	
890-2690-11	FS11	Total/NA	Solid	Total BTEX	
890-2690-12	FS12	Total/NA	Solid	Total BTEX	
890-2690-13	FS13	Total/NA	Solid	Total BTEX	

Prep Batch: 31801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17833-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-17833-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 31417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	8015NM Prep	
890-2690-2	FS02	Total/NA	Solid	8015NM Prep	
890-2690-3	FS03	Total/NA	Solid	8015NM Prep	
890-2690-4	FS04	Total/NA	Solid	8015NM Prep	
890-2690-5	FS05	Total/NA	Solid	8015NM Prep	
890-2690-6	FS06	Total/NA	Solid	8015NM Prep	
890-2690-7	FS07	Total/NA	Solid	8015NM Prep	
890-2690-8	FS08	Total/NA	Solid	8015NM Prep	
890-2690-9	FS09	Total/NA	Solid	8015NM Prep	
890-2690-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

GC Semi VOA (Continued)

Prep Batch: 31417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 31439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-11	FS11	Total/NA	Solid	8015NM Prep	
890-2690-12	FS12	Total/NA	Solid	8015NM Prep	
890-2690-13	FS13	Total/NA	Solid	8015NM Prep	
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	8015B NM	31417
890-2690-2	FS02	Total/NA	Solid	8015B NM	31417
890-2690-3	FS03	Total/NA	Solid	8015B NM	31417
890-2690-4	FS04	Total/NA	Solid	8015B NM	31417
890-2690-5	FS05	Total/NA	Solid	8015B NM	31417
890-2690-6	FS06	Total/NA	Solid	8015B NM	31417
890-2690-7	FS07	Total/NA	Solid	8015B NM	31417
890-2690-8	FS08	Total/NA	Solid	8015B NM	31417
890-2690-9	FS09	Total/NA	Solid	8015B NM	31417
890-2690-10	FS10	Total/NA	Solid	8015B NM	31417
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015B NM	31417
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31417
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31417
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	31417
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31417

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-11	FS11	Total/NA	Solid	8015B NM	31439
890-2690-12	FS12	Total/NA	Solid	8015B NM	31439
890-2690-13	FS13	Total/NA	Solid	8015B NM	31439
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015B NM	31439
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31439
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31439
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	31439
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31439

Analysis Batch: 31548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Total/NA	Solid	8015 NM	
890-2690-2	FS02	Total/NA	Solid	8015 NM	
890-2690-3	FS03	Total/NA	Solid	8015 NM	
890-2690-4	FS04	Total/NA	Solid	8015 NM	
890-2690-5	FS05	Total/NA	Solid	8015 NM	
890-2690-6	FS06	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

GC Semi VOA (Continued)

Analysis Batch: 31548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-7	FS07	Total/NA	Solid	8015 NM	
890-2690-8	FS08	Total/NA	Solid	8015 NM	
890-2690-9	FS09	Total/NA	Solid	8015 NM	
890-2690-10	FS10	Total/NA	Solid	8015 NM	
890-2690-11	FS11	Total/NA	Solid	8015 NM	
890-2690-12	FS12	Total/NA	Solid	8015 NM	
890-2690-13	FS13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-4	FS04	Soluble	Solid	DI Leach	
890-2690-5	FS05	Soluble	Solid	DI Leach	
890-2690-6	FS06	Soluble	Solid	DI Leach	
890-2690-7	FS07	Soluble	Solid	DI Leach	
890-2690-8	FS08	Soluble	Solid	DI Leach	
890-2690-9	FS09	Soluble	Solid	DI Leach	
890-2690-10	FS10	Soluble	Solid	DI Leach	
890-2690-11	FS11	Soluble	Solid	DI Leach	
890-2690-12	FS12	Soluble	Solid	DI Leach	
890-2690-13	FS13	Soluble	Solid	DI Leach	
MB 880-31429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2690-4 MS	FS04	Soluble	Solid	DI Leach	
890-2690-4 MSD	FS04	Soluble	Solid	DI Leach	
890-2691-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2691-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 31444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Soluble	Solid	DI Leach	
890-2690-2	FS02	Soluble	Solid	DI Leach	
890-2690-3	FS03	Soluble	Solid	DI Leach	
MB 880-31444/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2690-1 MS	FS01	Soluble	Solid	DI Leach	
890-2690-1 MSD	FS01	Soluble	Solid	DI Leach	
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-4	FS04	Soluble	Solid	300.0	31429
890-2690-5	FS05	Soluble	Solid	300.0	31429
890-2690-6	FS06	Soluble	Solid	300.0	31429
890-2690-7	FS07	Soluble	Solid	300.0	31429
890-2690-8	FS08	Soluble	Solid	300.0	31429
890-2690-9	FS09	Soluble	Solid	300.0	31429

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

HPLC/IC (Continued)

Analysis Batch: 31662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-10	FS10	Soluble	Solid	300.0	31429
890-2690-11	FS11	Soluble	Solid	300.0	31429
890-2690-12	FS12	Soluble	Solid	300.0	31429
890-2690-13	FS13	Soluble	Solid	300.0	31429
MB 880-31429/1-A	Method Blank	Soluble	Solid	300.0	31429
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	300.0	31429
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31429
890-2690-4 MS	FS04	Soluble	Solid	300.0	31429
890-2690-4 MSD	FS04	Soluble	Solid	300.0	31429
890-2691-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	31429
890-2691-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31429

Analysis Batch: 31665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2690-1	FS01	Soluble	Solid	300.0	31444
890-2690-2	FS02	Soluble	Solid	300.0	31444
890-2690-3	FS03	Soluble	Solid	300.0	31444
MB 880-31444/1-A	Method Blank	Soluble	Solid	300.0	31444
LCS 880-31444/2-A	Lab Control Sample	Soluble	Solid	300.0	31444
LCSD 880-31444/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31444
890-2690-1 MS	FS01	Soluble	Solid	300.0	31444
890-2690-1 MSD	FS01	Soluble	Solid	300.0	31444
890-2695-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	31444
890-2695-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31444

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS01

Date Collected: 07/26/22 14:05
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31680	08/08/22 08:17	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31685	08/08/22 15:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 14:46	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31444	08/03/22 17:00	SMC	EET MID
Soluble	Analysis	300.0		1			31665	08/09/22 14:38	CH	EET MID

Client Sample ID: FS02

Date Collected: 07/28/22 13:00
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 21:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 15:07	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31444	08/03/22 17:00	SMC	EET MID
Soluble	Analysis	300.0		1			31665	08/09/22 15:02	CH	EET MID

Client Sample ID: FS03

Date Collected: 07/28/22 13:05
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 22:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 15:55	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31444	08/03/22 17:00	SMC	EET MID
Soluble	Analysis	300.0		1			31665	08/09/22 15:10	CH	EET MID

Client Sample ID: FS04

Date Collected: 07/28/22 13:10
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 23:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS04
Date Collected: 07/28/22 13:10
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 16:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		5			31662	08/11/22 19:45	CH	EET MID

Client Sample ID: FS05
Date Collected: 07/28/22 13:15
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/05/22 23:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 16:38	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 20:09	CH	EET MID

Client Sample ID: FS06
Date Collected: 07/28/22 13:20
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 00:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 16:59	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 20:17	CH	EET MID

Client Sample ID: FS07
Date Collected: 07/28/22 13:25
Date Received: 08/01/22 08:23

Lab Sample ID: 890-2690-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 00:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 17:21	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS07

Lab Sample ID: 890-2690-7
Matrix: Solid
Date Collected: 07/28/22 13:25
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		5			31662	08/11/22 20:25	CH	EET MID

Client Sample ID: FS08

Lab Sample ID: 890-2690-8
Matrix: Solid
Date Collected: 07/28/22 13:15
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 01:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 17:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 20:33	CH	EET MID

Client Sample ID: FS09

Lab Sample ID: 890-2690-9
Matrix: Solid
Date Collected: 07/28/22 13:30
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 01:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 18:05	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		5			31662	08/11/22 21:20	CH	EET MID

Client Sample ID: FS10

Lab Sample ID: 890-2690-10
Matrix: Solid
Date Collected: 07/28/22 13:35
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 01:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 18:26	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 22:12	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Client Sample ID: FS11

Lab Sample ID: 890-2690-11

Date Collected: 07/29/22 13:20
Matrix: Solid
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 02:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 13:40	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 22:20	CH	EET MID

Client Sample ID: FS12

Lab Sample ID: 890-2690-12

Date Collected: 07/29/22 13:25
Matrix: Solid
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 02:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 14:02	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		5			31662	08/11/22 22:28	CH	EET MID

Client Sample ID: FS13

Lab Sample ID: 890-2690-13

Date Collected: 07/29/22 13:30
Matrix: Solid
Date Received: 08/01/22 08:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31574	08/05/22 11:28	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31617	08/06/22 02:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31800	08/08/22 15:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			31548	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 14:24	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 22:36	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2690-1
SDG: 03D2024010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2690-1	FS01	Solid	07/26/22 14:05	08/01/22 08:23	4'
890-2690-2	FS02	Solid	07/28/22 13:00	08/01/22 08:23	4'
890-2690-3	FS03	Solid	07/28/22 13:05	08/01/22 08:23	4'
890-2690-4	FS04	Solid	07/28/22 13:10	08/01/22 08:23	4'
890-2690-5	FS05	Solid	07/28/22 13:15	08/01/22 08:23	4'
890-2690-6	FS06	Solid	07/28/22 13:20	08/01/22 08:23	4'
890-2690-7	FS07	Solid	07/28/22 13:25	08/01/22 08:23	4'
890-2690-8	FS08	Solid	07/28/22 13:15	08/01/22 08:23	4'
890-2690-9	FS09	Solid	07/28/22 13:30	08/01/22 08:23	4'
890-2690-10	FS10	Solid	07/28/22 13:35	08/01/22 08:23	4'
890-2690-11	FS11	Solid	07/29/22 13:20	08/01/22 08:23	4'
890-2690-12	FS12	Solid	07/29/22 13:25	08/01/22 08:23	4'
890-2690-13	FS13	Solid	07/29/22 13:30	08/01/22 08:23	4'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around	
Project Number:	03D2024010	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4	
Total Containers:		Corrected Temperature:	5.2	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS01	s	07.26.22	1405	4'	C	1		x	x	x	NAPP2127234076
FS02	s	07.28.22	1300	4'	C	1		x	x	x	
FS03	s	07.28.22	1305	4'	C	1		x	x	x	
FS04	s	07.28.22	1310	4'	C	1		x	x	x	
FS05	s	07.28.22	1315	4'	C	1		x	x	x	
FS06	s	07.28.22	1320	4'	C	1		x	x	x	
FS07	s	07.28.22	1325	4'	C	1		x	x	x	
FS08	s	07.29.22	1315	4'	C	1		x	x	x	
FS09	s	07.28.22	1330	4'	C	1		x	x	x	
FS10	s	07.28.22	1335	4'	C	1		x	x	x	

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.22 8:17	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☒ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around		Pres. Code	
Project Number:	03D2024010	☑ Routine ☐ Rush			
Project Location:		Due Date:			
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yes No		
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021	Sample Comments
FS11	s	07.29.22	1320	4'	C	1	x	x	x	NAPP2127234076
FS12	s	07.29.22	1325	4'	C	1	x	x	x	
FS13	s	07.29.22	1330	4'	C	1	x	x	x	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.22 817	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2690-1
SDG Number: 03D2024010

Login Number: 2690
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2690-1
SDG Number: 03D2024010

Login Number: 2690
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/02/22 10:44 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2691-1
Laboratory Sample Delivery Group: 03D2024010
Client Project/Site: King Tut Federal Com 001H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/12/2022 7:53:07 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Laboratory Job ID: 890-2691-1
SDG: 03D2024010

Table of Contents

Eurofins Carlsbad
8/12/2022

Definitions/Glossary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Job ID: 890-2691-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2691-1

Receipt
The sample was received on 8/1/2022 8:17 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-31767 and analytical batch 880-31850 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW01 (890-2691-1), (CCV 880-31850/20), (CCV 880-31850/33), (LCS 880-31767/1-A) and (890-2704-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-31767/2-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31417 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31429 and analytical batch 880-31662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Client Sample ID: SW01

Date Collected: 07/28/22 13:40
Date Received: 08/01/22 08:17
Sample Depth: 0-4'

Lab Sample ID: 890-2691-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:00	08/10/22 07:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:00	08/10/22 07:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:00	08/10/22 07:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 13:00	08/10/22 07:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:00	08/10/22 07:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 13:00	08/10/22 07:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*08/08/22 13:00*	*08/10/22 07:32*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/08/22 13:00*	*08/10/22 07:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/10/22 09:55	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:24	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 13:28	08/04/22 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/03/22 13:28*	*08/04/22 14:24*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/03/22 13:28*	*08/04/22 14:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**563**	**F1**	5.01		mg/Kg			08/11/22 22:43	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-17597-A-2-F MS	Matrix Spike	96	103										
880-17597-A-2-G MSD	Matrix Spike Duplicate	112	95										
890-2691-1	SW01	135 S1+	81										
890-2704-A-1-H MS	Matrix Spike	130	85										
890-2704-A-1-I MSD	Matrix Spike Duplicate	140 S1+	84										
LCS 880-31767/1-A	Lab Control Sample	136 S1+	81										
LCS 880-31834/1-A	Lab Control Sample	99	108										
LCSD 880-31767/2-A	Lab Control Sample Dup	131 S1+	84										
LCSD 880-31834/2-A	Lab Control Sample Dup	114	102										
MB 880-31717/5-A	Method Blank	96	95										
MB 880-31767/5-A	Method Blank	103	75										
MB 880-31834/5-A	Method Blank	98	93										
MB 880-31850/8	Method Blank	99	77										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-17530-A-1-E MS	Matrix Spike	79	79										
880-17530-A-1-F MSD	Matrix Spike Duplicate	81	90										
890-2691-1	SW01	105	115										
LCS 880-31417/2-A	Lab Control Sample	124	130										
LCSD 880-31417/3-A	Lab Control Sample Dup	123	127										
MB 880-31417/1-A	Method Blank	82	98										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31717/5-A
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31717

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/08/22 10:13*	*08/09/22 16:06*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/08/22 10:13*	*08/09/22 16:06*	*1*

Lab Sample ID: MB 880-31767/5-A
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31767

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:00	08/10/22 06:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:00	08/10/22 06:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:00	08/10/22 06:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 13:00	08/10/22 06:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:00	08/10/22 06:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 13:00	08/10/22 06:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/08/22 13:00*	*08/10/22 06:38*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*08/08/22 13:00*	*08/10/22 06:38*	*1*

Lab Sample ID: LCS 880-31767/1-A
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31767

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08434		mg/Kg		84	70 - 130		
Toluene			0.100	0.08825		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08741		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1767		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09757		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: LCSD 880-31767/2-A
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31767

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08734		mg/Kg		87	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

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

Lab Sample ID: LCSD 880-31767/2-A
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31767

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08876		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.08917		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1831		mg/Kg		92	70 - 130	4	35
o-Xylene			0.100	0.09964		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 890-2704-A-1-H MS
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.100	0.09552		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.100	0.09509		mg/Kg		95	70 - 130
Ethylbenzene	<0.00199	U	0.100	0.09336		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1888		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.100	0.1014		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 890-2704-A-1-I MSD
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31767

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0998	0.06812	F1	mg/Kg		68	70 - 130	33	35
Toluene	<0.00199	U	0.0998	0.07008		mg/Kg		70	70 - 130	30	35
Ethylbenzene	<0.00199	U	0.0998	0.07097		mg/Kg		71	70 - 130	27	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1453		mg/Kg		73	70 - 130	26	35
o-Xylene	<0.00199	U	0.0998	0.08021		mg/Kg		80	70 - 130	23	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: MB 880-31834/5-A
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31834

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 08:41	08/10/22 02:52	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

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

Lab Sample ID: MB 880-31834/5-A
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31834

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 08:41	08/10/22 02:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/09/22 08:41*	*08/10/22 02:52*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/09/22 08:41*	*08/10/22 02:52*	*1*

Lab Sample ID: LCS 880-31834/1-A
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1002		mg/Kg		100	70 - 130		
Toluene			0.100	0.09582		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.07829		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene			0.200	0.1630		mg/Kg		82	70 - 130		
o-Xylene			0.100	0.08318		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-31834/2-A
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08862		mg/Kg		89	70 - 130	12	35
Toluene			0.100	0.1079		mg/Kg		108	70 - 130	12	35
Ethylbenzene			0.100	0.09720		mg/Kg		97	70 - 130	22	35
m-Xylene & p-Xylene			0.200	0.2134		mg/Kg		107	70 - 130	27	35
o-Xylene			0.100	0.1062		mg/Kg		106	70 - 130	24	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-17597-A-2-F MS
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0998	0.1058		mg/Kg		105	70 - 130		
Toluene	<0.00200	U	0.0998	0.1035		mg/Kg		104	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.08434		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1748		mg/Kg		88	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.08766		mg/Kg		87	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

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

Lab Sample ID: 880-17597-A-2-F MS
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31834

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-17597-A-2-G MSD
Matrix: Solid
Analysis Batch: 31851

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08278		mg/Kg		82	70 - 130	24	35
Toluene	<0.00200	U	0.100	0.1051		mg/Kg		105	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.09458		mg/Kg		94	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.201	0.2062		mg/Kg		103	70 - 130	16	35
o-Xylene	<0.00200	U	0.100	0.1025		mg/Kg		101	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-31850/8
Matrix: Solid
Analysis Batch: 31850

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			08/09/22 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/09/22 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/09/22 16:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/09/22 16:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/09/22 16:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/09/22 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		08/09/22 16:48	1
1,4-Difluorobenzene (Surr)	77		70 - 130		08/09/22 16:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31417/1-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31417

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-31417/1-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31417

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/03/22 13:28	08/04/22 10:03	1
o-Terphenyl	98		70 - 130	08/03/22 13:28	08/04/22 10:03	1

Lab Sample ID: LCS 880-31417/2-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1000		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-31417/3-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.6		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	958.9		mg/Kg		96	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-17530-A-1-E MS
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1036		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	624.2	F1	mg/Kg		62	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17530-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31455 — **Prep Batch: 31417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1002		mg/Kg		100	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	720.1		mg/Kg		72	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31429/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31662

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 19:22	1

Lab Sample ID: LCS 880-31429/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-31429/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2690-A-4-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1470	F1	1250	3453	F1	mg/Kg		159	90 - 110		

Lab Sample ID: 890-2690-A-4-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 31662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1470	F1	1250	3454	F1	mg/Kg		159	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2691-1 MS
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	663	F1	251	876.5	F1	mg/Kg		85	90 - 110		

Lab Sample ID: 890-2691-1 MSD
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: SW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	663	F1	251	884.5	F1	mg/Kg		89	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

GC VOA

Prep Batch: 31717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31717/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 31767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	5035	
MB 880-31767/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31767/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31767/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2704-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2704-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 31834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31834/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31834/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31834/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17597-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	
880-17597-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 31850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	8021B	31767
MB 880-31767/5-A	Method Blank	Total/NA	Solid	8021B	31767
MB 880-31850/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-31767/1-A	Lab Control Sample	Total/NA	Solid	8021B	31767
LCSD 880-31767/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31767
890-2704-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	31767
890-2704-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31767

Analysis Batch: 31851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31717/5-A	Method Blank	Total/NA	Solid	8021B	31717
MB 880-31834/5-A	Method Blank	Total/NA	Solid	8021B	31834
LCS 880-31834/1-A	Lab Control Sample	Total/NA	Solid	8021B	31834
LCSD 880-31834/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31834
880-17597-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	31834
880-17597-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31834

Analysis Batch: 31898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	8015NM Prep	
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

GC Semi VOA (Continued)

Prep Batch: 31417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	8015B NM	31417
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015B NM	31417
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31417
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31417
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	31417
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31417

Analysis Batch: 31547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Soluble	Solid	DI Leach	
MB 880-31429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2690-A-4-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2690-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2691-1 MS	SW01	Soluble	Solid	DI Leach	
890-2691-1 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 31662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2691-1	SW01	Soluble	Solid	300.0	31429
MB 880-31429/1-A	Method Blank	Soluble	Solid	300.0	31429
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	300.0	31429
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31429
890-2690-A-4-E MS	Matrix Spike	Soluble	Solid	300.0	31429
890-2690-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31429
890-2691-1 MS	SW01	Soluble	Solid	300.0	31429
890-2691-1 MSD	SW01	Soluble	Solid	300.0	31429

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Client Sample ID: SW01
Date Collected: 07/28/22 13:40
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2691-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31767	08/08/22 13:00	MR	EET MID
Total/NA	Analysis	8021B		1			31850	08/10/22 07:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31898	08/10/22 09:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31547	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 14:24	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 22:43	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2691-1
SDG: 03D2024010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2691-1	SW01	Solid	07/28/22 13:40	08/01/22 08:17	0-4'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

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Work Order No: _____

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☒ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024010	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Conner Shore		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM_007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.4	
Total Containers:		Corrected Temperature:	5.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SW01	s	07.28.22	1340	0-4'	C	1		x	x	x	NAPP2127234076

890-2691 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.1.22817	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Work Order No: _____

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Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

QUEST

Custody

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2S0_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Comments

NAPP2127234076

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Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

s. It assigns standard terms and conditions
are due to circumstances beyond the control
s will be enforced unless previously negotiated.

ture)	Received by: (Signature)	Date/Time

8/12/2022

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2691-1
SDG Number: 03D2024010

Login Number: 2691
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2691-1
SDG Number: 03D2024010

Login Number: 2691
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/02/22 10:44 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2692-1
Laboratory Sample Delivery Group: 03D2024010
Client Project/Site: King Tut Federal Com 001H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/12/2022 7:53:37 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Laboratory Job ID: 890-2692-1
SDG: 03D2024010

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2692-1
Project/Site: King Tut Federal Com 001H SDG: 03D2024010

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Job ID: 890-2692-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2692-1

Receipt
The samples were received on 8/1/2022 8:17 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31417 and analytical batch 880-31455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31429 and analytical batch 880-31662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW02

Date Collected: 07/28/22 13:45
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Lab Sample ID: 890-2692-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:52	08/07/22 15:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:52	08/07/22 15:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:52	08/07/22 15:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:52	08/07/22 15:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:52	08/07/22 15:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:52	08/07/22 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:05*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/09/22 16:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:48*	*1*
o-Terphenyl	*113*		*70 - 130*	*08/03/22 13:28*	*08/04/22 18:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**381**		4.97		mg/Kg			08/11/22 23:07	1

Client Sample ID: SW03

Date Collected: 07/29/22 14:15
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Lab Sample ID: 890-2692-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 15:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 15:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 15:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:52	08/07/22 15:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 15:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:52	08/07/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW03

Date Collected: 07/29/22 14:15
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Lab Sample ID: 890-2692-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/09/22 16:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/03/22 15:56	08/04/22 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:46*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/03/22 15:56*	*08/04/22 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**		4.99	mg/Kg			08/11/22 23:15	1

Client Sample ID: SW04

Date Collected: 07/29/22 13:55
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Lab Sample ID: 890-2692-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 15:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 15:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 15:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/05/22 11:52	08/07/22 15:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:52	08/07/22 15:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/05/22 11:52	08/07/22 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:46*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*08/05/22 11:52*	*08/07/22 15:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/09/22 16:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/05/22 08:59	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW04

Lab Sample ID: 890-2692-3
Matrix: Solid
Date Collected: 07/29/22 13:55
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*08/03/22 15:56*	*08/04/22 15:07*	*1*
o-Terphenyl	*86*		*70 - 130*	*08/03/22 15:56*	*08/04/22 15:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		4.99		mg/Kg			08/11/22 23:39	1

Client Sample ID: SW05

Lab Sample ID: 890-2692-4
Matrix: Solid
Date Collected: 07/29/22 13:45
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:52	08/07/22 16:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:52	08/07/22 16:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:52	08/07/22 16:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:52	08/07/22 16:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:52	08/07/22 16:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:52	08/07/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/05/22 11:52*	*08/07/22 16:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/05/22 11:52*	*08/07/22 16:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/09/22 16:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/03/22 15:56*	*08/04/22 15:55*	*1*
o-Terphenyl	*99*		*70 - 130*	*08/03/22 15:56*	*08/04/22 15:55*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW05

Lab Sample ID: 890-2692-4
Matrix: Solid
Date Collected: 07/29/22 13:45
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.04		mg/Kg			08/11/22 23:46	1

Client Sample ID: SW06

Lab Sample ID: 890-2692-5
Matrix: Solid
Date Collected: 07/29/22 14:00
Date Received: 08/01/22 08:17
Sample Depth: 0 - 4'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 16:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 16:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 16:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 11:52	08/07/22 16:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 16:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 11:52	08/07/22 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*08/05/22 11:52*	*08/07/22 16:28*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/05/22 11:52*	*08/07/22 16:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/09/22 16:25	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/05/22 08:59	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 15:56	08/04/22 16:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 15:56	08/04/22 16:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 15:56	08/04/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/03/22 15:56*	*08/04/22 16:16*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/03/22 15:56*	*08/04/22 16:16*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		5.05		mg/Kg			08/11/22 23:54	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2692-1	SW02	104	113
890-2692-1 MS	SW02	98	104
890-2692-1 MSD	SW02	96	102
890-2692-2	SW03	111	109
890-2692-3	SW04	113	117
890-2692-4	SW05	114	107
890-2692-5	SW06	77	86
LCS 880-31576/1-A	Lab Control Sample	96	106
LCSD 880-31576/2-A	Lab Control Sample Dup	92	103
MB 880-31576/5-A	Method Blank	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-17530-A-1-E MS	Matrix Spike	79	79
880-17530-A-1-F MSD	Matrix Spike Duplicate	81	90
880-17544-A-1-D MS	Matrix Spike	69 S1-	73
880-17544-A-1-E MSD	Matrix Spike Duplicate	79	81
890-2692-1	SW02	105	113
890-2692-2	SW03	76	94
890-2692-3	SW04	71	86
890-2692-4	SW05	80	99
890-2692-5	SW06	96	115
LCS 880-31417/2-A	Lab Control Sample	124	130
LCS 880-31439/2-A	Lab Control Sample	86	97
LCSD 880-31417/3-A	Lab Control Sample Dup	123	127
LCSD 880-31439/3-A	Lab Control Sample Dup	88	101
MB 880-31417/1-A	Method Blank	82	98
MB 880-31439/1-A	Method Blank	96	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31576/5-A
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31576

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 11:52	08/07/22 14:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:52	08/07/22 14:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 11:52	08/07/22 14:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/05/22 11:52*	*08/07/22 14:43*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/05/22 11:52*	*08/07/22 14:43*	*1*

Lab Sample ID: LCS 880-31576/1-A
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09840		mg/Kg		98	70 - 130		
Toluene			0.100	0.1101		mg/Kg		110	70 - 130		
Ethylbenzene			0.100	0.09388		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.2024		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.09923		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-31576/2-A
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1124		mg/Kg		112	70 - 130	13	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	2	35
Ethylbenzene			0.100	0.08729		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1826		mg/Kg		91	70 - 130	10	35
o-Xylene			0.100	0.08974		mg/Kg		90	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2692-1 MS
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 31576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.1015		mg/Kg		101	70 - 130		
Toluene	<0.00201	U	0.101	0.09221		mg/Kg		92	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

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

Lab Sample ID: 890-2692-1 MS
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 31576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.07243		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1505		mg/Kg		75	70 - 130
o-Xylene	<0.00201	U	0.101	0.07369		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2692-1 MSD
Matrix: Solid
Analysis Batch: 31656

Client Sample ID: SW02
Prep Type: Total/NA
Prep Batch: 31576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.1015		mg/Kg		102	70 - 130	0	35
Toluene	<0.00201	U	0.0998	0.09175		mg/Kg		92	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0998	0.07057		mg/Kg		71	70 - 130	3	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1460		mg/Kg		73	70 - 130	3	35
o-Xylene	<0.00201	U	0.0998	0.07205		mg/Kg		72	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31417/1-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31417

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 13:28	08/04/22 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/03/22 13:28*	*08/04/22 10:03*	*1*
o-Terphenyl	*98*		*70 - 130*	*08/03/22 13:28*	*08/04/22 10:03*	*1*

Lab Sample ID: LCS 880-31417/2-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1021		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1000		mg/Kg		100	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-31417/2-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31417

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-31417/3-A
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.6		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	958.9		mg/Kg		96	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-17530-A-1-E MS
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	624.2	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-17530-A-1-F MSD
Matrix: Solid
Analysis Batch: 31455

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1002		mg/Kg		100	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	720.1		mg/Kg		72	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-31439/1-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31439

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 15:56	08/04/22 10:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/03/22 15:56*	*08/04/22 10:03*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/03/22 15:56*	*08/04/22 10:03*	*1*

Lab Sample ID: LCS 880-31439/2-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31439

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	974.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	955.3		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-31439/3-A
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	985.7		mg/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 880-17544-A-1-D MS
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	936.9		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	766.8		mg/Kg		77	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17544-A-1-D MS
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31439

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 880-17544-A-1-E MSD
Matrix: Solid
Analysis Batch: 31457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	908.2		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	866.8		mg/Kg		87	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	81		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31429/1-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 19:22	1

Lab Sample ID: LCS 880-31429/2-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-31429/3-A
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2691-A-1-E MS
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	663	F1	251	876.5	F1	mg/Kg		85	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2691-A-1-F MSD
Matrix: Solid
Analysis Batch: 31662

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	663	F1	251	884.5	F1	mg/Kg		89	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

GC VOA

Prep Batch: 31576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	5035	
890-2692-2	SW03	Total/NA	Solid	5035	
890-2692-3	SW04	Total/NA	Solid	5035	
890-2692-4	SW05	Total/NA	Solid	5035	
890-2692-5	SW06	Total/NA	Solid	5035	
MB 880-31576/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31576/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31576/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2692-1 MS	SW02	Total/NA	Solid	5035	
890-2692-1 MSD	SW02	Total/NA	Solid	5035	

Analysis Batch: 31656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	8021B	31576
890-2692-2	SW03	Total/NA	Solid	8021B	31576
890-2692-3	SW04	Total/NA	Solid	8021B	31576
890-2692-4	SW05	Total/NA	Solid	8021B	31576
890-2692-5	SW06	Total/NA	Solid	8021B	31576
MB 880-31576/5-A	Method Blank	Total/NA	Solid	8021B	31576
LCS 880-31576/1-A	Lab Control Sample	Total/NA	Solid	8021B	31576
LCSD 880-31576/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31576
890-2692-1 MS	SW02	Total/NA	Solid	8021B	31576
890-2692-1 MSD	SW02	Total/NA	Solid	8021B	31576

Analysis Batch: 31864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	Total BTEX	
890-2692-2	SW03	Total/NA	Solid	Total BTEX	
890-2692-3	SW04	Total/NA	Solid	Total BTEX	
890-2692-4	SW05	Total/NA	Solid	Total BTEX	
890-2692-5	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	8015NM Prep	
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 31439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-2	SW03	Total/NA	Solid	8015NM Prep	
890-2692-3	SW04	Total/NA	Solid	8015NM Prep	
890-2692-4	SW05	Total/NA	Solid	8015NM Prep	
890-2692-5	SW06	Total/NA	Solid	8015NM Prep	
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

GC Semi VOA (Continued)

Prep Batch: 31439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	8015B NM	31417
MB 880-31417/1-A	Method Blank	Total/NA	Solid	8015B NM	31417
LCS 880-31417/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31417
LCSD 880-31417/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31417
880-17530-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	31417
880-17530-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31417

Analysis Batch: 31457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-2	SW03	Total/NA	Solid	8015B NM	31439
890-2692-3	SW04	Total/NA	Solid	8015B NM	31439
890-2692-4	SW05	Total/NA	Solid	8015B NM	31439
890-2692-5	SW06	Total/NA	Solid	8015B NM	31439
MB 880-31439/1-A	Method Blank	Total/NA	Solid	8015B NM	31439
LCS 880-31439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31439
LCSD 880-31439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31439
880-17544-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	31439
880-17544-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31439

Analysis Batch: 31549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Total/NA	Solid	8015 NM	
890-2692-2	SW03	Total/NA	Solid	8015 NM	
890-2692-3	SW04	Total/NA	Solid	8015 NM	
890-2692-4	SW05	Total/NA	Solid	8015 NM	
890-2692-5	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Soluble	Solid	DI Leach	
890-2692-2	SW03	Soluble	Solid	DI Leach	
890-2692-3	SW04	Soluble	Solid	DI Leach	
890-2692-4	SW05	Soluble	Solid	DI Leach	
890-2692-5	SW06	Soluble	Solid	DI Leach	
MB 880-31429/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2691-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2691-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 31662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-1	SW02	Soluble	Solid	300.0	31429

QC Association Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

HPLC/IC (Continued)

Analysis Batch: 31662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2692-2	SW03	Soluble	Solid	300.0	31429
890-2692-3	SW04	Soluble	Solid	300.0	31429
890-2692-4	SW05	Soluble	Solid	300.0	31429
890-2692-5	SW06	Soluble	Solid	300.0	31429
MB 880-31429/1-A	Method Blank	Soluble	Solid	300.0	31429
LCS 880-31429/2-A	Lab Control Sample	Soluble	Solid	300.0	31429
LCSD 880-31429/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31429
890-2691-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	31429
890-2691-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31429

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW02

Date Collected: 07/28/22 13:45
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31576	08/05/22 11:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 15:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31864	08/09/22 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			31549	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31417	08/03/22 13:28	DM	EET MID
Total/NA	Analysis	8015B NM		1			31455	08/04/22 18:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 23:07	CH	EET MID

Client Sample ID: SW03

Date Collected: 07/29/22 14:15
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31576	08/05/22 11:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 15:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31864	08/09/22 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			31549	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 14:46	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 23:15	CH	EET MID

Client Sample ID: SW04

Date Collected: 07/29/22 13:55
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31576	08/05/22 11:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 15:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31864	08/09/22 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			31549	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 15:07	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 23:39	CH	EET MID

Client Sample ID: SW05

Date Collected: 07/29/22 13:45
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31576	08/05/22 11:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 16:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31864	08/09/22 16:25	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Client Sample ID: SW05

Date Collected: 07/29/22 13:45
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31549	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 15:55	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 23:46	CH	EET MID

Client Sample ID: SW06

Date Collected: 07/29/22 14:00
Date Received: 08/01/22 08:17

Lab Sample ID: 890-2692-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	31576	08/05/22 11:52	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31656	08/07/22 16:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31864	08/09/22 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			31549	08/05/22 08:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31439	08/03/22 15:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31457	08/04/22 16:16	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31429	08/03/22 13:59	SMC	EET MID
Soluble	Analysis	300.0		1			31662	08/11/22 23:54	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Federal Com 001H

Job ID: 890-2692-1
SDG: 03D2024010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2692-1	SW02	Solid	07/28/22 13:45	08/01/22 08:17	0 - 4'
890-2692-2	SW03	Solid	07/29/22 14:15	08/01/22 08:17	0 - 4'
890-2692-3	SW04	Solid	07/29/22 13:55	08/01/22 08:17	0 - 4'
890-2692-4	SW05	Solid	07/29/22 13:45	08/01/22 08:17	0 - 4'
890-2692-5	SW06	Solid	07/29/22 14:00	08/01/22 08:17	0 - 4'

Chain of Custody

eurofins | Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Federal Com 001H	Turn Around	
Project Number:	03D2024010	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	INM_007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4	
Total Containers:		Corrected Temperature:	5.2	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SW02	s	07.28.22	1345	0-4'	C	1	x	x	x
SW03	s	07.29.22	1415	0-4'	C	1	x	x	x
SW04	s	07.28.22	1355	0-4'	C	1	x	x	x
SW05	s	07.29.22	1345	0-4'	C	1	x	x	x
SW06	s	07.29.22	1400	0-4'	C	1	x	x	x

890-2692 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

NAPP2127234076

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		8.1.22 817			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2692-1
SDG Number: 03D2024010

Login Number: 2692
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2692-1
SDG Number: 03D2024010

Login Number: 2692
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/02/22 10:44 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2738-1
Laboratory Sample Delivery Group: 03D2024082
Client Project/Site: King Tut Fed Com 1H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/22/2022 2:18:55 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Laboratory Job ID: 890-2738-1
SDG: 03D2024082

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2738-1
Project/Site: King Tut Fed Com 1H SDG: 03D2024082

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Job ID: 890-2738-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2738-1

Receipt
The samples were received on 8/10/2022 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32003 and analytical batch 880-31940 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (890-2732-A-1-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31853 and analytical batch 880-31943 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-31966/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-31966 and analytical batch 880-32042 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Client Sample ID: SS01

Lab Sample ID: 890-2738-1
Matrix: Solid
Date Collected: 08/10/22 11:00
Date Received: 08/10/22 14:06
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 01:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:37*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/12/22 10:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/12/22 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/11/22 19:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/12/22 19:20	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/11/22 15:10	08/12/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/11/22 15:10*	*08/12/22 19:20*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/11/22 15:10*	*08/12/22 19:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6050**		49.9		mg/Kg			08/12/22 02:05	10

Client Sample ID: SS02

Lab Sample ID: 890-2738-2
Matrix: Solid
Date Collected: 08/10/22 11:05
Date Received: 08/10/22 14:06
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 01:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 01:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:58*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Client Sample ID: SS02

Lab Sample ID: 890-2738-2
Matrix: Solid
Date Collected: 08/10/22 11:05
Date Received: 08/10/22 14:06
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/11/22 11:30*	*08/12/22 01:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/12/22 10:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**53.9**		49.9		mg/Kg			08/12/22 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		08/11/22 09:22	08/12/22 19:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/11/22 09:22	08/12/22 19:43	1
Oil Range Organics (Over C28-C36)	**53.9**		49.9		mg/Kg		08/11/22 09:22	08/12/22 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*101*		*70 - 130*	*08/11/22 09:22*	*08/12/22 19:43*	*1*
o-Terphenyl	*126*		*70 - 130*	*08/11/22 09:22*	*08/12/22 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6940**		50.0		mg/Kg			08/12/22 02:14	10

Client Sample ID: SS03

Lab Sample ID: 890-2738-3
Matrix: Solid
Date Collected: 08/10/22 11:10
Date Received: 08/10/22 14:06
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/11/22 11:30	08/12/22 02:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/11/22 11:30	08/12/22 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/11/22 11:30*	*08/12/22 02:18*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/11/22 11:30*	*08/12/22 02:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/12/22 10:35	1

Client Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Client Sample ID: SS03

Date Collected: 08/10/22 11:10
Date Received: 08/10/22 14:06
Sample Depth: 1

Lab Sample ID: 890-2738-3

Matrix: Solid

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/12/22 09:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/11/22 17:00	08/12/22 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/11/22 17:00	08/12/22 20:04	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/11/22 17:00	08/12/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/11/22 17:00*	*08/12/22 20:04*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/11/22 17:00*	*08/12/22 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**406**		5.00		mg/Kg			08/12/22 02:23	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2736-A-1-B MS	Matrix Spike	128	97
890-2736-A-1-C MSD	Matrix Spike Duplicate	120	86
890-2738-1	SS01	104	78
890-2738-2	SS02	113	88
890-2738-3	SS03	105	78
LCS 880-32003/1-A	Lab Control Sample	107	100
LCSD 880-32003/2-A	Lab Control Sample Dup	121	100
MB 880-31863/5-A	Method Blank	97	81
MB 880-32003/5-A	Method Blank	98	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-17971-A-1-E MS	Matrix Spike	96	110
880-17971-A-1-F MSD	Matrix Spike Duplicate	86	106
890-2732-A-1-B MS	Matrix Spike	71	67 S1-
890-2732-A-1-C MSD	Matrix Spike Duplicate	73	71
890-2738-1	SS01	84	93
890-2738-2	SS02	101	126
890-2738-3	SS03	96	118
LCS 880-31853/2-A	Lab Control Sample	103	103
LCS 880-31966/2-A	Lab Control Sample	116	137 S1+
LCSD 880-31853/3-A	Lab Control Sample Dup	119	122
LCSD 880-31966/3-A	Lab Control Sample Dup	100	123
MB 880-31853/1-A	Method Blank	93	112
MB 880-31966/1-A	Method Blank	84	115

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31863/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31863

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*

Lab Sample ID: MB 880-32003/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*

Lab Sample ID: LCS 880-32003/1-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07932		mg/Kg		79	70 - 130		
Toluene			0.100	0.09050		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09368		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1953		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1007		mg/Kg		101	70 - 130	24	35

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

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

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09974		mg/Kg		100	70 - 130	10	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2294		mg/Kg		115	70 - 130	16	35
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2736-A-1-B MS
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.08521		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.101	0.09050		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2138		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.101	0.1176		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2736-A-1-C MSD
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06978	F1	mg/Kg		69	70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09112		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09830		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2031		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1115		mg/Kg		111	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31853/1-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-31853/1-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*

Lab Sample ID: LCS 880-31853/2-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	925.9		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	926.0		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-31853/3-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1030		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 890-2732-A-1-B MS
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	974.0		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	623.0	F1	mg/Kg		62	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*71*		*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2732-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31943 — **Prep Batch: 31853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	929.9		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	668.7	F1	mg/Kg		67	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: MB 880-31966/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32042 — **Prep Batch: 31966**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/11/22 09:22	08/12/22 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/11/22 09:22	08/12/22 10:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/11/22 09:22	08/12/22 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/11/22 09:22*	*08/12/22 10:39*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/11/22 09:22*	*08/12/22 10:39*	*1*

Lab Sample ID: LCS 880-31966/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32042 — **Prep Batch: 31966**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1194		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1180		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-31966/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32042 — **Prep Batch: 31966**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.6	*1	mg/Kg		90	70 - 130	29	20
Diesel Range Organics (Over C10-C28)			1000	1034		mg/Kg		103	70 - 130	13	20

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-31966/3-A
Matrix: Solid
Analysis Batch: 32042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31966

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	123		70 - 130

Lab Sample ID: 880-17971-A-1-E MS
Matrix: Solid
Analysis Batch: 32042

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1123		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	150		999	1035		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 880-17971-A-1-F MSD
Matrix: Solid
Analysis Batch: 32042

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 31966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1108		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	150		999	949.1		mg/Kg		80	70 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31949/1-A
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 22:24	1

Lab Sample ID: LCS 880-31949/2-A
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.9		mg/Kg		95	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-31949/3-A
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			251	238.3		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-2736-A-4-B MS
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.8		250	278.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-2736-A-4-C MSD
Matrix: Solid
Analysis Batch: 32041

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.8		251	277.0		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

GC VOA

Prep Batch: 31863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31863/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	8021B	32003
890-2738-2	SS02	Total/NA	Solid	8021B	32003
890-2738-3	SS03	Total/NA	Solid	8021B	32003
MB 880-31863/5-A	Method Blank	Total/NA	Solid	8021B	31863
MB 880-32003/5-A	Method Blank	Total/NA	Solid	8021B	32003
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	8021B	32003
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32003
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	32003
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32003

Prep Batch: 32003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	5035	
890-2738-2	SS02	Total/NA	Solid	5035	
890-2738-3	SS03	Total/NA	Solid	5035	
MB 880-32003/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	Total BTEX	
890-2738-2	SS02	Total/NA	Solid	Total BTEX	
890-2738-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	8015B NM	31853
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015B NM	31853
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31853
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31853
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31853
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31853

QC Association Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

GC Semi VOA

Prep Batch: 31966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-2	SS02	Total/NA	Solid	8015NM Prep	
890-2738-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-31966/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31966/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17971-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17971-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-2	SS02	Total/NA	Solid	8015B NM	31966
890-2738-3	SS03	Total/NA	Solid	8015B NM	31966
MB 880-31966/1-A	Method Blank	Total/NA	Solid	8015B NM	31966
LCS 880-31966/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31966
LCSD 880-31966/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31966
880-17971-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	31966
880-17971-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31966

Analysis Batch: 32061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Total/NA	Solid	8015 NM	
890-2738-2	SS02	Total/NA	Solid	8015 NM	
890-2738-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Soluble	Solid	DI Leach	
890-2738-2	SS02	Soluble	Solid	DI Leach	
890-2738-3	SS03	Soluble	Solid	DI Leach	
MB 880-31949/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2738-1	SS01	Soluble	Solid	300.0	31949
890-2738-2	SS02	Soluble	Solid	300.0	31949
890-2738-3	SS03	Soluble	Solid	300.0	31949
MB 880-31949/1-A	Method Blank	Soluble	Solid	300.0	31949
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	300.0	31949
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31949
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	31949
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31949

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Client Sample ID: SS01

Lab Sample ID: 890-2738-1
Matrix: Solid
Date Collected: 08/10/22 11:00
Date Received: 08/10/22 14:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 01:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32089	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32061	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 19:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		10			32041	08/12/22 02:05	CH	EET MID

Client Sample ID: SS02

Lab Sample ID: 890-2738-2
Matrix: Solid
Date Collected: 08/10/22 11:05
Date Received: 08/10/22 14:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 01:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32089	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32061	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31966	08/11/22 09:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			32042	08/12/22 19:43	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		10			32041	08/12/22 02:14	CH	EET MID

Client Sample ID: SS03

Lab Sample ID: 890-2738-3
Matrix: Solid
Date Collected: 08/10/22 11:10
Date Received: 08/10/22 14:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 02:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32089	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32061	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31966	08/11/22 17:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32042	08/12/22 20:04	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 02:23	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2738-1
SDG: 03D2024082

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2738-1	SS01	Solid	08/10/22 11:00	08/10/22 14:06	1
890-2738-2	SS02	Solid	08/10/22 11:05	08/10/22 14:06	1
890-2738-3	SS03	Solid	08/10/22 11:10	08/10/22 14:06	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Fed Com 1H	Turn Around		Pres. Code	
Project Number:	03D2024082	☐ Routine	☑ Rush		
Project Location:		Due Date:	3 day		
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

SAMPLE RECEIPT					
Temp Blank:	Yes No	Wet Ice:	Yes No		
Samples Received Intact:	Yes No	Thermometer ID:	NM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2		
Total Containers:		Corrected Temperature:	5.0		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	S	08.10.22	1100	1'	C	1	x	x	x	
SS02	S	08.10.22	1105	1'	C	1	x	x	x	
SS03	S	08.10.22	1110	1'	C	1	x	x	x	NAPP2216436957

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.10.22 1406			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2738-1
SDG Number: 03D2024082

Login Number: 2738
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2738-1
SDG Number: 03D2024082

Login Number: 2738
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/11/22 12:13 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2739-1
Laboratory Sample Delivery Group: 03D2024082
Client Project/Site: King Tut Fed Com 1H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
8/22/2022 2:19:32 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Laboratory Job ID: 890-2739-1
SDG: 03D2024082

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2739-1
Project/Site: King Tut Fed Com 1H SDG: 03D2024082

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Job ID: 890-2739-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2739-1

Receipt
The samples were received on 8/10/2022 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32003 and analytical batch 880-31940 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Client Sample ID: SS04

Lab Sample ID: 890-2739-1
Matrix: Solid
Date Collected: 08/10/22 11:20
Date Received: 08/10/22 14:06
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/11/22 11:30	08/12/22 02:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/12/22 02:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/11/22 11:30	08/12/22 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/11/22 11:30*	*08/12/22 02:39*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/11/22 11:30*	*08/12/22 02:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/12/22 10:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/22 10:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 16:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 16:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/12/22 08:52*	*08/12/22 16:50*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/12/22 08:52*	*08/12/22 16:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**474**		5.01		mg/Kg			08/12/22 02:33	1

Client Sample ID: SS05

Lab Sample ID: 890-2739-2
Matrix: Solid
Date Collected: 08/10/22 11:35
Date Received: 08/10/22 14:06
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 04:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 04:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 04:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/11/22 11:30	08/12/22 04:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/11/22 11:30	08/12/22 04:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/11/22 11:30	08/12/22 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/11/22 11:30*	*08/12/22 04:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Client Sample ID: SS05
Date Collected: 08/10/22 11:35
Date Received: 08/10/22 14:06
Sample Depth: 1

Lab Sample ID: 890-2739-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/11/22 11:30*	*08/12/22 04:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			08/12/22 10:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/12/22 08:52*	*08/12/22 17:12*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/12/22 08:52*	*08/12/22 17:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**335**		5.02		mg/Kg			08/12/22 02:42	1

Surrogate Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-2736-A-1-B MS	Matrix Spike	128	97										
890-2736-A-1-C MSD	Matrix Spike Duplicate	120	86										
890-2739-1	SS04	111	84										
890-2739-2	SS05	111	87										
LCS 880-32003/1-A	Lab Control Sample	107	100										
LCSD 880-32003/2-A	Lab Control Sample Dup	121	100										
MB 880-31863/5-A	Method Blank	97	81										
MB 880-32003/5-A	Method Blank	98	84										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-17973-A-1-E MS	Matrix Spike	112	94										
880-17973-A-1-F MSD	Matrix Spike Duplicate	115	93										
890-2739-1	SS04	129	108										
890-2739-2	SS05	124	106										
LCS 880-32054/2-A	Lab Control Sample	105	100										
LCSD 880-32054/3-A	Lab Control Sample Dup	117	89										
MB 880-32054/1-A	Method Blank	114	109										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31863/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31863

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*

Lab Sample ID: MB 880-32003/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*

Lab Sample ID: LCS 880-32003/1-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07932		mg/Kg		79	70 - 130		
Toluene			0.100	0.09050		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09368		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1953		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1007		mg/Kg		101	70 - 130	24	35

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

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

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09974		mg/Kg		100	70 - 130	10	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2294		mg/Kg		115	70 - 130	16	35
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2736-A-1-B MS
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.08521		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.101	0.09050		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2138		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.101	0.1176		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2736-A-1-C MSD
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06978	F1	mg/Kg		69	70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09112		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09830		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2031		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1115		mg/Kg		111	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32054/1-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32054

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-32054/1-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32054

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/12/22 08:52*	*08/12/22 10:43*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/12/22 08:52*	*08/12/22 10:43*	*1*

Lab Sample ID: LCS 880-32054/2-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32054

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	991.2		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1150		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-32054/3-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32054

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	947.1		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		105	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: 880-17973-A-1-E MS
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	982.6		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	153		999	1216		mg/Kg		106	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-17973-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32049 — **Prep Batch: 32054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1018		mg/Kg		102	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	153		999	1187		mg/Kg		104	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31949/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 22:24	1

Lab Sample ID: LCS 880-31949/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.9		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-31949/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			251	238.3		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-2736-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.8		250	278.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-2736-A-4-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.8		251	277.0		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

GC VOA

Prep Batch: 31863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31863/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	8021B	32003
890-2739-2	SS05	Total/NA	Solid	8021B	32003
MB 880-31863/5-A	Method Blank	Total/NA	Solid	8021B	31863
MB 880-32003/5-A	Method Blank	Total/NA	Solid	8021B	32003
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	8021B	32003
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32003
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	32003
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32003

Prep Batch: 32003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	5035	
890-2739-2	SS05	Total/NA	Solid	5035	
MB 880-32003/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2736-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2736-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	Total BTEX	
890-2739-2	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	8015B NM	32054
890-2739-2	SS05	Total/NA	Solid	8015B NM	32054
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015B NM	32054
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32054
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32054
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32054
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32054

Prep Batch: 32054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	8015NM Prep	
890-2739-2	SS05	Total/NA	Solid	8015NM Prep	
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

GC Semi VOA

Analysis Batch: 32153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Total/NA	Solid	8015 NM	
890-2739-2	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Soluble	Solid	DI Leach	
890-2739-2	SS05	Soluble	Solid	DI Leach	
MB 880-31949/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2739-1	SS04	Soluble	Solid	300.0	31949
890-2739-2	SS05	Soluble	Solid	300.0	31949
MB 880-31949/1-A	Method Blank	Soluble	Solid	300.0	31949
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	300.0	31949
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31949
890-2736-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	31949
890-2736-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31949

Lab Chronicle

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Client Sample ID: SS04

Date Collected: 08/10/22 11:20
Date Received: 08/10/22 14:06

Lab Sample ID: 890-2739-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 02:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32090	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32153	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 16:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 02:33	CH	EET MID

Client Sample ID: SS05

Date Collected: 08/10/22 11:35
Date Received: 08/10/22 14:06

Lab Sample ID: 890-2739-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 04:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32090	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32153	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 02:42	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: King Tut Fed Com 1H

Job ID: 890-2739-1
SDG: 03D2024082

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2739-1	SS04	Solid	08/10/22 11:20	08/10/22 14:06	1
890-2739-2	SS05	Solid	08/10/22 11:35	08/10/22 14:06	1

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennigns
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	King Tut Fed Com 1H	**Turn Around**	
Project Number:	03D2024082	☐ Routine ☑ Rush	
Project Location:		Due Date:	3 day
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-397
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS04	S	08.10.22	1120	1'	C	1		x	x	x
SS05	S	08.10.22	1135	1'	C	1		x	x	x

Parameters

890-2739 Chain of Custody

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

NAPP2216436957

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8.10.22 1406			
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2739-1
SDG Number: 03D2024082

Login Number: 2739
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2739-1
SDG Number: 03D2024082

Login Number: 2739
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/11/22 12:13 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Beauvais, Charles R
To: Kalei Jennings
Cc: Fejervary Morena, Gustavo A; Esparza, Brittany
Subject: FW: [EXTERNAL] COP- Extension Request- King Tut Federal 001H (Incident Number NAPP2216436957)
Date: Thursday, September 1, 2022 3:53:13 PM
Attachments: image001.png

[**EXTERNAL EMAIL**]

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Thursday, September 1, 2022 2:28 PM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: FW: [EXTERNAL] COP- Extension Request- King Tut Federal 001H (Incident Number NAPP2216436957)

CAUTION:This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Charles

OCD approves your request for a 30-day extension to October 4, 2022 to submit a closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, September 1, 2022 2:05 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] COP- Extension Request- King Tut Federal 001H (Incident Number NAPP2216436957)

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Thursday, September 1, 2022 2:00 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL] COP- Extension Request- King Tut Federal 001H (Incident Number NAPP2216436957)

To Whom It May Concern,

COP is requesting an extension for the current deadline of September 4, 2022 for submitting a closure report required in 19.15.29.12.B.(1) NMAC at King Tut Federal 001H (Incident Number NAPP2216436957). The release was discovered on June 6, 2022. COP had an additional release event at the Site that occurred on September 10, 2021 (Incident Number NAPP2127234076), which overlapped portions of the June 2022 release. The remediation work plan for Incident Number NAPP2127234076 was approved by the NMOCD on May 31, 2022 to complete delineation, excavation, and drill a depth to water boring to confirm the Closure Criteria at the Site. The releases were addressed concurrently, and delineation and excavation activities are complete. Bureau of Land Management (BLM) approved access to advance a soil boring to determine depth to groundwater on August 15, 2022; however, New Mexico Office of the State Engineer (NMOSE) permits were received September 1, 2022. COP intends to drill the soil boring within 2 weeks of NMOSE permit approval and provide a closure request within 1 week of completing drilling activities. In order to complete drilling activities and submit a closure report, COP requests a 30-day extension of this deadline until October 4, 2022.

Respectfully,

Charles R. Beauvais **II**
Senior Environmental Engineer **|** Environmental Operations **| ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.

From: Nobui, Jennifer, EMNRD
To: Kalei Jennings
Cc: Bratcher, Mike, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Subject: FW: [EXTERNAL] COP- Sampling Notification (Week of 07/18/22-07/22/22)
Date: Thursday, July 14, 2022 12:04:58 PM
Attachments: image001.png
image002.png
image003.png
image004.png

[**EXTERNAL EMAIL**]

Kalei

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Thursday, July 14, 2022 10:39 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 07/18/22-07/22/22)

From: Kalei Jennings <kjennings@ensolum.com>
Sent: Thursday, July 14, 2022 10:35 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] COP- Sampling Notification (Week of 07/18/22-07/22/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of July 18, 2022.

Monday:

- Zia Hills 19-1 / NAPP2215827276

Tuesday:

- King Tut Federal Com 001H / NAPP2127234076

Wednesday:

- King Tut Federal Com 001H / NAPP2127234076

Thursday:

Friday:

Thank you,

Kalei Jennings
Senior Scientist
817-683-2503
Ensolum, LLC

From: Beauvais, Charles R
To: Kalei Jennings
Subject: Fwd: [EXTERNAL](Final Extension) COP-King Tut Federal 001H (Incident Number NAPP2127234076)
Date: Friday, August 26, 2022 12:00:10 PM
Attachments: image002.jpg
image003.png

[**EXTERNAL EMAIL**]

Fyi

Get Outlook for iOS

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Friday, August 26, 2022 8:04:34 AM
To: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Cc: Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: [EXTERNAL](Final Extension) COP-King Tut Federal 001H (Incident Number NAPP2127234076)

RE: Incident #**NAPP2127234076**

Charles,

Your request for an extension to **September 28th, 2022** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>
Sent: Thursday, August 25, 2022 12:29 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: [EXTERNAL] COP-Extension Request- King Tut Federal 001H (Incident Number NAPP2127234076)

To Whom It May Concern,

COP is requesting an extension for the current deadline of August 29, 2022 for submitting a closure report required in 19.15.29.12.B.(1) NMAC at King Tut Federal 001H (Incident Number NAPP2127234076). The release was discovered on September 10, 2021 and the remediation work plan was approved by the NMOCD on May 31, 2022 to complete delineation, excavation, and drill a depth to water boring to confirm the Closure Criteria at the Site. COP had an additional release event at the Site that occurred on June 6, 2022 (Incident Number NAPP2216436957), which overlapped portions of the September 2021 release. The releases were addressed concurrently, and delineation and excavation activities are complete. Bureau of Land Management (BLM) approved access to advance a soil boring to determine depth to groundwater on August 15, 2022; however, New Mexico Office of the State Engineer (NMOSE) permits are still pending. COP intends to drill the soil boring within 2 weeks of NMOSE permit approval and provide a closure request within 1 week of completing drilling activities. In order to complete drilling activities and submit a closure report, COP requests a 30-day extension of this deadline until September 28, 2022.

Respectfully,

Charles R. Beauvais **II**
Senior Environmental Engineer **|** Environmental Operations **| ConocoPhillips**
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.

From: OCDOnline@state.nm.us
To: Kalei Jennings
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 107590
Date: Tuesday, May 31, 2022 11:19:32 AM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2127234076,
with the following conditions:

- **Remediation Plan Approved with Conditions. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX E

Final C-141

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ 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

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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 _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 10/01/2021

L48 Spill Volume Estimate Form

Incident ID (n) Number:	King tut
Asset Area:	DBE
Release Discovery Date & Time:	9/10/2021, 11:30
Release Type:	Produced Water
Provide any known details about the event:	Busted swd flex line

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	20.0	87.0	0.25	10.00%	6.453	0.645			
Rectangle B	31.0	35.0	0.50	10.00%	8.047	0.805			
Rectangle C					0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			
					Total Volume Release:	14.500			

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2127234076
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2127234076
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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais II Date: 09/27/2022

email: Charles.R.Beauvais@ConocoPhillips.com Telephone: (575) 988-2043

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2127234076
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: __Charles Beauvais_____ Title: ___Senior Environmental Engineer_____

Signature: Charles R. Beauvais II Date: ___09/27/2022_____

email: __Charles.R.Beauvais@conocophillips.com_____ Telephone: ___575-988-2043_____

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

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	NAPP2216436957
District RP	
Facility ID	fAPP2203843099
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2216436957
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.195 Longitude -103.7196

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	King Tut Federal 001H	Site Type	Flow Line
Date Release Discovered	June 6, 2022	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
D	30	24S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 14.89	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a ruptured transfer line.
The release was on and off the pad. A vacuum truck was dispatched to remove all freestanding fluids. Evaluation will made the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216436957
District RP	
Facility ID	fAPP2203843099
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ 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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 6/13/2022

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2022

L48 Spill Volume Estimate Form

Facility Name & Number:	King Tut Federal 1H CTB
Asset Area:	DBE NORTH
Release Discovery Date & Time:	6:30AM 6/6/2022
Release Type:	Produced Water
Provide any known details about the event:	PINHOLE IN FLOWLINE

NAPP2216436957

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	100.0	10.0	4.00	4	1000.000	0.083	14.833	0.004	14.895
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
								Total Volume Release:	14.895

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 116221
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/13/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216436957
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216436957
District RP	
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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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais II Date: 09/27/2022

email: Charles.R.Beauvais@ConocoPhillips.com Telephone: (575) 988-2043

OCD Only

Received by: Jocelyn Harimon Date: 09/28/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2216436957
District RP	
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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: Charles Beauvais Title: Senior Environmental Engineer

Signature: Charles R. Beauvais II Date: 09/27/2022

email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: Jocelyn Harimon Date: 09/28/2022

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: Jennifer Nobui Date: 10/03/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 147002
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	10/3/2022