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Form C-141

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State of New Mexico
Oil Conservation Division

	0	
Incident ID	nAPP2302639601	
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?							
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?							
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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
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 well 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 	s.						
 □ 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.

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I hereby certify that the information given above is true and complete to the best regulations all operators are required to report and/or file certain release notifica public health or the environment. The acceptance of a C-141 report by the OCD failed to adequately investigate and remediate contamination that pose a threat to addition, OCD acceptance of a C-141 report does not relieve the operator of respand/or regulations.	tions and perform corrective actions for releases which may endanger does not relieve the operator of liability should their operations have p groundwater, surface water, human health or the environment. In
Printed Name:Heather Woods	Title: EHS Specialist
Signature: Huth M. Wose	Date:04/03/2023
email:Heather.Woods@whiptailmidstream.com	Telephone: (505) 512-9797
OCD Only	
Received by:Jocelyn Harimon	Date: 04/04/2023

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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 mi	ust be included in the closure report.								
A scaled site and sampling diagram as described in 19.15.29.11 NMA	AC								
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	ct office must be notified 2 days prior to final sampling)								
Description of remediation activities									
hereby certify that the information given above is true and complete to the and regulations all operators are required to report and/or file certain releasing endanger public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate and remediate numan health or the environment. In addition, OCD acceptance of a C-141 compliance with any other federal, state, or local laws and/or regulations. Testore, reclaim, and re-vegetate the impacted surface area to the conditions accordance with 19.15.29.13 NMAC including notification to the OCD where the impact of th	e notifications and perform corrective actions for releases which I report by the OCD does not relieve the operator of liability contamination that pose a threat to groundwater, surface water, report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially that existed prior to the release or their final land use in en reclamation and re-vegetation are complete. Title: EHS Specialist								
Signature: Alath M. Wood	Date:04/03/2023								
email: Heather.Woods@whiptialmidstream.com	Telephone:(505) 512-9797								
OCD Only									
Received by: Jocelyn Harimon	Date: 04/04/2023								
Closure approval by the OCD does not relieve the responsible party of liabilizemediate contamination that poses a threat to groundwater, surface water, hourty of compliance with any other federal, state, or local laws and/or regul	uman health, or the environment nor does not relieve the responsible								
Closure Approved by: Nelson Velez Nelson Velez	Date:04/11/2023								
Printed Name: Nelson Velez	Title: Environmental Specialist – Adv								



March 30, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Report and Closure Request

Gathering Pipeline Release - Chaco 147H San Juan County, New Mexico Whiptail Midstream, LLC NMOCD Incident No: nAPP2302639601

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Whiptail Midstream, LLC (Whiptail), presents this Remediation Report and Closure Request for a release from a gathering pipeline at the Chaco 147H production well (Site), which is operated by Enduring Resources, LLC. The Site is located on federal land managed by the Bureau of Land Management (BLM) in Unit I, Section 16, Township 23 North, Range 8 West, in San Juan County, New Mexico (Figure 1). The work described in this report was performed to address petroleum hydrocarbon impacted soil originating from a release of crude oil from a valve body on the gathering pipeline. Based on the remediation activities performed and laboratory analytical results from soil confirmation samples, Whiptail is requesting closure and no further action for Incident Number nAPP2302639601.

SITE BACKGROUND

On January 25, 2023, Whiptail personnel discovered crude oil originating from a failed O-ring on a valve body on a crude oil gathering pipeline. The pipeline was immediately shut in. Whiptail estimated that approximately 10 barrels (bbls) of crude oil sprayed, then pooled on the nearby ground surface. The crude oil mixed with melting snow, resulting in oily water flowing off pad and ultimately into an unnamed dry wash southwest of the well pad for approximately 350 feet. Berms were constructed to limit downstream migration of the pooled liquid and a vacuum truck was dispatched to recover fluids. In total, approximately 60 bbls of oily water mixture was recovered from the release path, of which 10 bbls are estimated to be oil originating from the release with the reminder melted snow water. As part of emergency response actions to prevent further downstream migration of the oily water, Whiptail excavated the top 1 to 2 feet of saturated soil along the release footprint. Whiptail reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 26, 2023 (Appendix A). The release was assigned Incident Number nAPP2302639601. Additionally, Ensolum submitted a Report of Undesirable Event to the BLM on January 26, 2023.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC). Geology at the Site is the Paleocene

Nacimiento Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, et. al., 1983), the Nacimiento Formation is characterized by various lithologies including interbedded black, carbonaceous mudstones and white, coarse-grained sandstones in the lower Formation, and mudstone and sandstone in the upper Formation. This Formation ranges in thickness from 418 feet to 2,232 feet. Stone and others state that though no aquifer tests are available for the Nacimiento Formation, but transmissivities of up to 100 square feet per day may be expected in some of the coarser, more continuous sandstone bodies. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply. The Nacimiento Formation is underlain by the Ojo Alamo Formation.

The release affected a portion of a significant watercourse. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake (Figure 1). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based on a New Mexico Office of the State Engineer (NMOSE) water well SJ-03978 POD1, located approximately ½-mile southeast of the Site and 50 feet lower in elevation. The recorded depth to water on the NMOSE database permit is 260 feet bgs (Appendix B). No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile of the Site. There are no wetlands within 300 feet of the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

Based on the information presented above and in accordance with the *Table I, Closure Criteria* for Soils Impacted by a Release (19.15.29.12 of the NMAC), the following NMOCD Table I Closure Criteria are applied to the Site based on the proximity to a significant watercourse:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION AND SOIL SAMPLING ACTIVITIES

On January 28, 2023, Ensolum personnel mapped the emergency response excavation extent utilizing a handheld Global Positioning System (GPS) and conducted a preliminary assessment of the release footprint. Additional soil removal was recommended and Ensolum and Whiptail requested a variance from the NMOCD to collect confirmation soil samples at a frequency of one 5-point composite sample per 1,000 square feet. In any instance where those soil samples exceed the NMOCD Table I Closure Criteria, the subsequent samples would be collected at a frequency of one sample per 500 square feet. The variance was approved by the NMOCD via email on February 8, 2023. Sampling notifications and variance requests submitted to the NMOCD are attached as Appendix A.

Additional excavation, field screening, and soil sampling were performed between February 2 and February 10, 2023. To direct excavation activities, Ensolum personnel field screened soil for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). The release extent was divided into individual sampling areas representing no more than 1,000-square feet from which five-point composite soil samples were collected. Due to the shallow nature of the excavation in several areas (less than 2 feet in depth), shallow sidewall areas were incorporated into the composite floor samples. Where sidewalls exceeded 2 feet in depth, separate composite sidewall samples were collected representing no more than one sample per 1,000 square feet. If



laboratory analytical results from sidewall and/or floor samples exceeded the NMOCD Table I Closure Criteria, additional soil was removed from that area and a subsequent sample representing the newly exposed area was collected at a frequency of one sample per no more than 500 square feet. All excavation confirmation samples submitted for laboratory analysis are depicted on Figure 2.

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. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 6 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were submitted for analyses of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The excavation was completed to depths ranging between 1 and 5 feet bgs to the lateral extent depicted in Figure 2. In total, approximately 3,254 cubic yards of soil were removed from the Site and transported for disposal at the Envirotech Landfarm in San Juan County, New Mexico. Following the remediation activities, Whiptail backfilled where appropriate and recontoured the affected areas.

RESULTS

Laboratory analytical results indicate all final confirmation samples were in compliance with the NMOCD Table I Closure Criteria. Analytical results are summarized in Table 1, with complete laboratory reports attached as Appendix C. Photographs taken by Ensolum during the excavation and by Whiptail after backfilling are included in Appendix D.

CLOSURE REQUEST

Excavation of impacted soil was conducted to address the release of crude oil that occurred on January 25, 2023. Laboratory analytical results for soil samples collected from the final excavation extent indicated that all concentrations of BTEX, TPH, and chloride were compliant with the NMOCD Table I Closure Criteria and the reclamation requirement for the top four feet of soil offpad, and no further remediation is required. Whiptail has backfilled the excavation on the well pad and adjacent slope with clean material and recontoured the Site and wash to match pre-existing conditions. Excavation of impacted soil has mitigated impacts at this Site and these remedial actions are protective of human health, the environment, and groundwater. As such, Whiptail respectfully requests closure for Incident Number nAPP2302639601.

Sincerely,

ENSOLUM, LLC

Reece Hanson Staff Geologist (970) 210-9803

rhanson@ensolum.com

Brooke Herb Senior Geologist (970) 403-6824 bherb@ensolum.com



Whiptail Midstream, LLC Remediation Report and Closure Request Chaco 147H

o 147H Page 4

Attachments:

Figure 1: Site Location Map

Figure 2: Excavation Soil Sample Locations

Table 1: Soil Sample Analytical Results

Appendix A: NMOCD Correspondence
Appendix B: NMOSE Well Summary
Appendix C: Laboratory Analytical Reports

Appendix D: Photographic Log

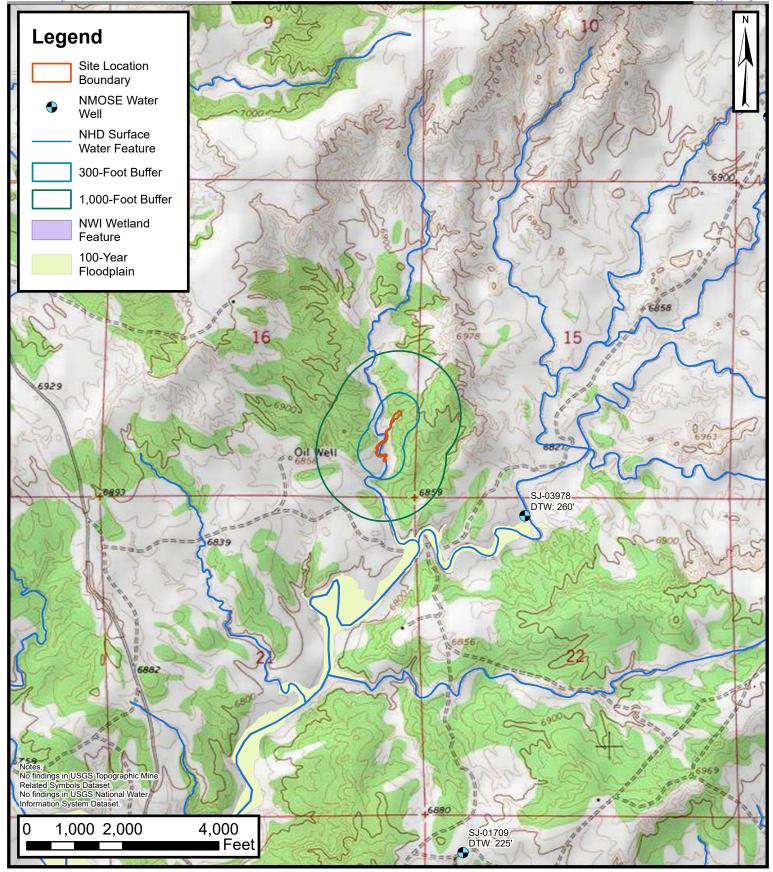
REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.





FIGURES





Site Location Map

Chaco 147H Whiptail Midstream, LLC 36.22369, -107.67921 NE/SE & SE/SE, SEC 16, T23N, R8W San Juan County, New Mexico FIGURE

1



120

Feet

FS-01B

Excavation Soil Sample Locations

Chaco 147H Whiptail Midstream, LLC

36.22369, -107.67921 NE/SE & SE/SE, SEC 16, T23N, R8W San Juan County, New Mexico FIGURE

2

30

60



TABLE



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Chaco 147H

Whiptail Midstream, LLC San Juan County, New Mexico

San Juan County, New Mexico													
Sample Identification	Date	Depth (feet)	PID Measurement (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD T	Table I Closure Cr	riteria	NE	10	NE	NE	NE	50	NE	NE	NE	100	600
FS-01B	2/3/2023	2-3	58.2	<0.022	<0.044	<0.044	<0.087	<0.087	<4.4	<9.9	<49	<49	<60
FS-02	2/2/2023	2-3.5	116	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	15	<48	15	<60
FS-03B	2/2/2023	2-3	14	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<9.6	<48	<48	<60
FS-04B	2/2/2023	2-3	24.7	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	<9.5	<47	<47	<60
FS-05	2/2/2023	2-3.5	85	<0.0078	<0.016	<0.016	<0.031	<0.031	<1.6	15	<49	15	<60
FS-06	2/2/2023	2-3	82.5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	30	<48	30	<60
FS-07	2/2/2023	2-3	28.8	<0.021	<0.042	<0.042	<0.083	<0.083	<4.2	13	<50	13	<60
FS-08B	2/3/2023	2-3.5	0.1	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	<9.9	<49	<49	<60
FS-09B	2/3/2023	2-3	4.2	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	12	<48	12	<60
FS-10B	2/3/2023	2-3	18.5	<0.018	< 0.037	<0.037	<0.074	<0.074	<3.7	11	<47	11	<60
FS-11B	2/3/2023	2-4	0.6	<0.023	<0.045	<0.045	<0.090	<0.090	<4.5	11	<47	11	<60
FS-12	2/2/2023	2-3.5	132	<0.021	<0.042	<0.042	<0.084	<0.084	<4.2	11	<49	11	<60
FS-13	2/2/2023	2-3.5	110	<0.023	<0.045	<0.045	<0.090	<0.090	<4.5	22	<50	22	<60
FS-14B	2/3/2023	2-4	1.5	<0.017	< 0.034	<0.034	<0.068	<0.068	<3.4	12	<47	12	<60
FS-15B	2/3/2023	3-4.5	4.2	<0.020	<0.039	<0.039	<0.078	<0.078	<3.9	120	56	176	<60
FS-15C*	2/7/2023	3.5-5	3.3	<0.017	< 0.035	<0.035	<0.070	<0.070	<3.5	<15	<49	<49	<60
FS-16B	2/8/2023	2-4	72.6	<0.040	<0.081	<0.081	<0.16	<0.16	<8.1	40	<50	40	<60
FS-17B	2/8/2023	3-4	16.6	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	14	<46	14	<60
FS-18B	2/8/2023	3-4	4.4	<0.019	<0.038	<0.038	<0.075	<0.075	<3.8	<14	<48	<48	<60
FS-19B	2/7/2023	2-4	2	<0.017	< 0.035	<0.035	<0.070	<0.070	<3.5	<14	<45	<45	<60
FS-20B	2/7/2023	1-3.5	2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<13	<44	<44	<60
FS-21B	2/7/2023	1-2	82	<0.023	<0.045	<0.045	<0.091	<0.091	<4.5	120	60	180	<60
FS-21E*	2/10/2023	2.5-3.5	45	<0.017	< 0.035	<0.035	<0.069	<0.069	<3.5	<10	<50	<50	<60
FS-21W*	2/10/2023	2.5-3.5	23	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<49	<49	<60
FS-22B	2/7/2023	1-2	14.9	<0.018	< 0.036	<0.036	<0.072	<0.072	<3.6	<15	<49	<49	<60
FS-23B	2/7/2023	2-4	7	<0.022	<0.044	<0.044	<0.089	<0.089	<4.4	17	<45	17	<59
FS-24B	2/8/2023	1-2	0.6	<0.020	< 0.039	<0.039	<0.078	<0.078	<3.9	<14	<48	<48	<60
FS-25B	2/8/2023	2-4	1.8	<0.022	<0.045	<0.045	<0.090	<0.090	<4.5	<14	<46	<46	<60
FS-26B	2/7/2023	2	22	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	82	<48	82	<60
FS-27B	2/8/2023	1.5-2	7.7	<0.020	<0.041	<0.041	<0.081	<0.081	<4.1	20	<49	20	<60
FS-28B	2/8/2023	2	85.4	<0.072	<0.14	<0.14	0.47	0.47	18	280	89	387	<60
FS-28E*	2/10/2023	3	42	<0.017	< 0.035	<0.035	<0.070	<0.070	<3.5	<9.5	<47	<47	<60
FS-28W*	2/10/2023	3	15	<0.017	<0.034	<0.034	<0.069	<0.069	<3.4	<9.6	<48	<48	<60
FS-29B	2/8/2023	2	17.3	<0.016	<0.031	<0.031	<0.063	< 0.063	<3.1	<14	<46	<46	<60
FS-30	2/8/2023	0-0.5	1.5	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	16	<48	16	<60



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Chaco 147H

Whiptail Midstream, LLC

Gail Goulity, New Mexico													
Sample Identification	Date	Depth (feet)	PID Measurement (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD 1	Table I Closure C	riteria	NE	10	NE	NE	NE	50	NE	NE	NE	100	600
SW-01	2/3/2023	0-3.5	10.6	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	11	<46	11	<60
SW-02	2/3/2023	0-4	19.5	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	14	<49	14	<60
SW-03	2/3/2023	0-4	6.3	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	96	54	150	<61
SW-03S*	2/7/2023	0-3.5	0.8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<48	<48	<60
SW-03N*	2/7/2023	0-4	0.3	<0.021	<0.041	<0.041	<0.082	<0.082	<4.1	20	<49	20	<60
SW-04	2/3/2023	0-4	9.7	<0.020	<0.039	< 0.039	<0.078	<0.078	<3.9	10	<47	10	<60
SW-05	2/3/2023	0-3.5	6.7	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	23	<49	23	<60
SW-06	2/3/2023	0-3.5	5	<0.019	<0.039	<0.039	<0.077	<0.077	<3.9	13	<49	13	<60
SW-07	2/8/2023	0-4	2.1	<0.020	<0.041	<0.041	<0.082	<0.082	<4.1	<13	<43	<43	<60
SW-08	2/8/2023	0-4	1	<0.021	<0.043	<0.043	<0.086	<0.086	<4.3	17	<49	17	<60
SW-09	2/8/2023	0-2	1.6	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	29	<47	29	<60
SW-10	2/10/2023	0-3	57	<0.017	<0.034	<0.034	<0.069	<0.069	<3.4	<9.9	<49	<49	<60

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NA: Not Analyzed

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

PID: Photoionization Detector

PPM: Parts Per Millon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<0.037: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in bold and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release

Samples in Gray and strikethrough text indicate samples have been excavated and re-sampled

^{*} denotes re-sampling area representing no more than 500 square feet



APPENDIX A

NMOCD Correspondance

From: Brooke Herb

To: <u>Landon, Sherrie C</u>; <u>Velez, Nelson, EMNRD</u>

Cc: <u>Don Wicburg</u>
Subject: Release Notification

Date: Thursday, January 26, 2023 12:35:00 PM
Attachments: Signed Initial C-141 Chaco 147H Release.pdf

image001.png image002.png image003.png image004.png

Whiptail Midstream discovered a crude oil pipeline release yesterday January 25, 2023, at 14:00 near the Chaco 147H (36.223692°, -107.679210°). The release was estimated to be 10 bbls of crude oil and approximately 8 bbls were recovered via vac truck. The release went off pad and reached a small wash to the southwest of the facility. The wash was bermed to prevent further migration. The ROW states that cultural resources are not present within the immediate project area. Sherrie, I will follow up this email with a phone call to further discuss remediation of the undisturbed area.

A NOR and initial C-141 have been submitted to the NMOCD portal. The release was assigned incident number nAPP2302639601. The initial C-141 is attached to this email.

Thank you, Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC From: Brooke Herb

To: Velez, Nelson, EMNRD; Landon, Sherrie C; Adeloye, Abiodun A; Enviro, OCD, EMNRD

Cc: <u>Don Wicburg</u>; <u>Cody Boyd</u>; <u>Buck Allison</u>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Date: Friday, February 10, 2023 1:04:00 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

Nelson,

Based on additional field screening results collected today, Ensolum requests a variance to 19.15.29.12D (1a) NMAC in order to collect additional confirmation soil samples today, February 10, 2023.

Please let me know if you have any questions or concerns.

Thank you,

Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Sent: Wednesday, February 8, 2023 9:58 AM

To: Brooke Herb bherb@ensolum.com/; Landon, Sherrie C Slandon@blm.gov/; Adeloye, Abiodun

A <aadeloye@blm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Don Wicburg <don.wicburg@whiptailmidstream.com>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Brooke.

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Brooke Herb < bherb@ensolum.com>
Sent: Wednesday, February 8, 2023 9:47 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Don Wicburg < don.wicburg@whiptailmidstream.com >; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Ensolum on behalf of Whiptail would like to again request a variance to the 48-hour notification period required per 19.15.29.12D (1A). We are requesting a variance in order to conduct additional confirmation soil sampling today starting at noon.

Based on field screening and site conditions, sampling may progress daily for the next couple of days. I will keep you informed as it does.

Please let me know if you have questions or concerns.

Thank you,

Brooke



From: Brooke Herb

Sent: Monday, February 6, 2023 2:13 PM

To: Velez, Nelson, EMNRD < Nelson.Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov >

Cc: Don Wicburg < don.wicburg@whiptailmidstream.com >; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Ensolum on behalf of Whiptail would like to request a variance to the 48-hour notification period required per 19.15.29.12D paragraph 1A. We are requesting a variance in order to conduct additional confirmation soil sampling tomorrow at 10 AM.

Please let me know if you have questions or concerns. Thank you,
Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC

From: Brooke Herb

Sent: Thursday, February 2, 2023 2:07 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Don Wicburg < <u>don.wicburg@whiptailmidstream.com</u>>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Ensolum on behalf of Whiptail requests a variance to the 48-hour notification period required per 19.15.29.12D paragraph 1A. Based on the site conditions today additional sampling is required. We are requesting a variance in order to conduct confirmation soil sampling tomorrow at 10 AM. Please let me know if you have questions or concerns.

Thank you, Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC

From: Velez, Nelson, EMNRD < <u>Nelson.Velez@emnrd.nm.gov</u>>

Sent: Tuesday, January 31, 2023 1:41 PM

To: Brooke Herb < <u>bherb@ensolum.com</u>>; Landon, Sherrie C < <u>slandon@blm.gov</u>>; Adeloye, Abiodun

A <<u>aadeloye@blm.gov</u>>; Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>

Cc: Don Wicburg < <u>don.wicburg@whiptailmidstream.com</u>>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Brooke,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling according to the next paragraph. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Based on the surface conditions which the release flow traveled and the action taken by Whiptail's in terminating further down gradient movement, your variance request specifically addressing 19.15.29.12D (1c) NMAC is approved under the conditions mentioned within your email below.

Please re-evaluate the quantity loss of the release provided to OCD thus far. In addition, please submit the sampling area map/diagram/schematic to OCD prior to Thursday's sampling event.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Brooke Herb < bherb@ensolum.com>
Sent: Tuesday, January 31, 2023 10:45 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Don Wicburg <<u>don.wicburg@whiptailmidstream.com</u>>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

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

On behalf of Whiptail Midstream, Ensolum is submitting this notification to perform closure soil sampling at the Chaco 147H Release (nAPP2302639601, 36.223692°, -107.679210°) on Thursday February 2, 2023, at 10:45 AM. We would like to request a sampling variance to collect 5-point composite samples every 1,000 square feet. If analytical results exceed the closure criteria in any of the 1,000-square foot areas, after additional remediation, additional samples will be collected at a

500 square foot interval. I will follow up with an attachment of the proposed 1,000 square foot sampling areas shortly.

Please let me know if you have any questions.

Thank you,

Brooke Herb



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC

From: Brooke Herb

To: Adeloye, Abiodun A; Culp, Robert L
Cc: Buck Allison; Landon, Sherrie C

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Date: Thursday, February 9, 2023 2:48:00 PM

Attachments: image004.png

image005.png image006.png image007.png

Thank you for the quick response.

Brooke



Brooke Herb Senior Geologist 970-403-6824 Ensolum, LLC

From: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Thursday, February 9, 2023 2:45 PM

To: Brooke Herb

bherb@ensolum.com>; Culp, Robert L <rculp@blm.gov>

Cc: Buck Allison <buck.allison@whiptailmidstream.com>; Landon, Sherrie C <slandon@blm.gov>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Hi, Brooke, Bob is okay with the Whiptail using the dirt as shown in the pictures. Please know that Whiptail would be responsible for any noxious weeds treatments in the future as a result of the new disturbance associated with this remediation.

Please let me know if have any questions.

Thank you.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402

Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Brooke Herb < bherb@ensolum.com>
Sent: Thursday, February 9, 2023 2:28 PM

To: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>>; Culp, Robert L <<u>rculp@blm.gov</u>>

Cc: Buck Allison < <u>buck.allison@whiptailmidstream.com</u>>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Please see the photos below and let me know if you have any questions or concerns with Whiptail using

this material for backfill. Thanks, Brooke









From: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Thursday, February 9, 2023 8:51 AM

To: Brooke Herb < bherb@ensolum.com >; Culp, Robert L < rculp@blm.gov >

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Hi, Brooke, can you please send the picture of the area where the dirt would be pulled from to Bob. Maybe the township, range, section, and quart/quart/ Long/Lat any information that might make it easier to help you out.

Thank you.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402 Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Brooke Herb < bherb@ensolum.com > Sent: Wednesday, February 8, 2023 1:25 PM

To: Adeloye, Abiodun A adeloye@blm.gov ; Culp, Robert L rculp@blm.gov > **Subject:** RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Bob,

Do you have any additional questions or concerns about the backfill. I believe they will be ready to start backfilling in the next day or so.

Thank you, Brooke



From: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Monday, February 6, 2023 2:31 PM

To: Brooke Herb < bherb@ensolum.com>; Culp, Robert L < rculp@blm.gov>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Thanks Brooke, Hopefully, the information is enough for Bob to help with the work.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402

Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Brooke Herb < bherb@ensolum.com>
Sent: Monday, February 6, 2023 2:05 PM

To: Adeloye, Abiodun A <<u>aadeloye@blm.gov</u>>; Culp, Robert L <<u>rculp@blm.gov</u>> **Subject:** RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Sorry I missed your call earlier. The backfill is being sourced from excess native soil from pad development in the northwest quarter of the northwest quarter of Section 34, T24N, R9W. Please feel free to call with any questions.

Thanks, Brooke



From: Adeloye, Abiodun A <aadeloye@blm.gov>
Sent: Monday, February 6, 2023 11:27 AM

To: Brooke Herb < bherb@ensolum.com>; Culp, Robert L < rculp@blm.gov>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Hi, Brooke, thanks for the information. I would like to know exactly where the material would be taken from for the backfilling. The Township, Range, Section, quart/quart, and name if possible. BLM would like to know if the location is free of noxious weeds. I have included Bob Culp the Range Specialist for the area with this reply.

Please let me know if you have any questions.

Thank you.

Abiodun Adeloye (Emmanuel), NRS

Bureau of Land Management Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402

Office Phone: 505-564-7665 Cell Phone: 505-635-0984

From: Brooke Herb < bherb@ensolum.com Sent: Friday, February 3, 2023 3:38 PM

To: Adeloye, Abiodun A aadeloye@blm.gov

Cc: Landon, Sherrie C <slandon@blm.gov>; Don Wicburg <don.wicburg@whiptailmidstream.com>

Subject: FW: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Emmanuel,

Attached is a remediation work plan for the Chaco 147H. Please let me know if you have any questions.

Thanks, Brooke

Brooke Herb

Senior Geologist 970-403-6824



From: Brooke Herb

Sent: Thursday, February 2, 2023 2:07 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Don Wicburg < <u>don.wicburg@whiptailmidstream.com</u>>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

Ensolum on behalf of Whiptail requests a variance to the 48-hour notification period required per 19.15.29.12D paragraph 1A. Based on the site conditions today additional sampling is required. We are requesting a variance in order to conduct confirmation soil sampling tomorrow at 10 AM. Please let me know if you have questions or concerns.

Thank you, Brooke



From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >

Sent: Tuesday, January 31, 2023 1:41 PM

To: Brooke Herb < beautiful Scheme Scheme

Cc: Don Wicburg < don.wicburg@whiptailmidstream.com >; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: RE: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

[**EXTERNAL EMAIL**]

Brooke,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please proceed with your sampling according to the next paragraph. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Based on the surface conditions which the release flow traveled and the action taken by Whiptail's in terminating further down gradient movement, your variance request specifically addressing 19.15.29.12D (1c) NMAC is approved under the conditions mentioned within your email below.

Please re-evaluate the quantity loss of the release provided to OCD thus far. In addition, please submit the sampling area map/diagram/schematic to OCD prior to Thursday's sampling event.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Brooke Herb < bherb@ensolum.com>
Sent: Tuesday, January 31, 2023 10:45 AM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov >; Landon, Sherrie C < slandon@blm.gov >; Adeloye, Abiodun A < adeloye@blm.gov >; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov >

Cc: Don Wicburg <<u>don.wicburg@whiptailmidstream.com</u>>; Cody Boyd

<cody.boyd@whiptailmidstream.com>; Buck Allison <buck.allison@whiptailmidstream.com>

Subject: [EXTERNAL] Chaco 147H Sampling Notification and Variance Request

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

On behalf of Whiptail Midstream, Ensolum is submitting this notification to perform closure soil sampling at the Chaco 147H Release (nAPP2302639601, 36.223692°, -107.679210°) on Thursday February 2, 2023, at 10:45 AM. We would like to request a sampling variance to collect 5-point composite samples every 1,000 square feet. If analytical results exceed the closure criteria in any of the 1,000-square foot areas, after additional remediation, additional samples will be collected at a 500 square foot interval. I will follow up with an attachment of the proposed 1,000 square foot sampling areas shortly.

Please let me know if you have any questions.

Thank you, Brooke Herb





APPENDIX B

NMOSE Well Summary



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

SJ 03978 POD1 1 2 1 22 23N 08W

259816 4011541

1

Driller License: 1357 **Driller Company:** BAILEY DRILLING COMPANY

Driller Name: MARK BAILEY

Drill Start Date: 08/01/2011 **Drill Finish Date:** 08/12/2011 **Plug Date:**

Log File Date:08/31/2011PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:4 GPMCasing Size:7.88Depth Well:500 feetDepth Water:260 feet

Water Bearing Stratifications: Top Bottom Description
240 260 Sandstone/Gravel/Conglomerate
400 440 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

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

0

500

3/30/23 1:57 PM

POINT OF DIVERSION SUMMARY



APPENDIX C

Laboratory Analytical Reports



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

February 10, 2023

Brooke Herb ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603

FAX

RE: Chaco 147H OrderNo.: 2302205

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 21 sample(s) on 2/4/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-02

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 11:18:00 AM

 Lab ID:
 2302205-001
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 12:10:52 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 15 9.7 mg/Kg 2/6/2023 9:41:56 AM 73006 ND 2/6/2023 9:41:56 AM Motor Oil Range Organics (MRO) mg/Kg 1 73006 48 Surr: DNOP 96.8 2/6/2023 9:41:56 AM 69-147 %Rec 73006 Analyst: CCM **EPA METHOD 8015D: GASOLINE RANGE** Gasoline Range Organics (GRO) ND 2/4/2023 11:22:00 AM GS94421 4.0 mg/Kg Surr: BFB 104 37.7-212 %Rec 2/4/2023 11:22:00 AM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 11:22:00 AM BS94421 Benzene 0.020 mg/Kg Toluene ND 0.040 mg/Kg 2/4/2023 11:22:00 AM BS94421 Ethylbenzene ND 0.040 mg/Kg 2/4/2023 11:22:00 AM BS94421 Xylenes, Total ND 0.080 mg/Kg 2/4/2023 11:22:00 AM BS94421 Surr: 4-Bromofluorobenzene 2/4/2023 11:22:00 AM BS94421 104 70-130 %Rec

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Rang
- RL Reporting Limit

Page 1 of 28

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-05

Project: Chaco 147H Collection Date: 2/2/2023 11:28:00 AM Lab ID: 2302205-002 Matrix: MEOH (SOIL) Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 12:48:07 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 15 9.7 mg/Kg 2/6/2023 9:52:33 AM 73006 Motor Oil Range Organics (MRO) ND 2/6/2023 9:52:33 AM mg/Kg 1 73006 49 Surr: DNOP 86.2 69-147 %Rec 2/6/2023 9:52:33 AM 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/4/2023 11:42:00 AM GS94421 1.6 mg/Kg Surr: BFB 105 37.7-212 %Rec 2/4/2023 11:42:00 AM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 11:42:00 AM BS94421 Benzene 0.0078 mg/Kg Toluene ND 0.016 mg/Kg 2/4/2023 11:42:00 AM BS94421 Ethylbenzene ND 0.016 mg/Kg 2/4/2023 11:42:00 AM BS94421 Xylenes, Total ND 0.031 mg/Kg 2/4/2023 11:42:00 AM BS94421 Surr: 4-Bromofluorobenzene BS94421 104 70-130 %Rec 2/4/2023 11:42:00 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р
- Reporting Limit

Page 2 of 28

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-06

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 11:48:00 AM

 Lab ID:
 2302205-003
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 1:25:21 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	30	9.7	mg/Kg	1	2/6/2023 10:06:10 AM	73006
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/6/2023 10:06:10 AM	73006
Surr: DNOP	91.5	69-147	%Rec	1	2/6/2023 10:06:10 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/4/2023 12:02:00 PM	GS9442 [*]
Surr: BFB	106	37.7-212	%Rec	1	2/4/2023 12:02:00 PM	GS9442 [,]
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	2/4/2023 12:02:00 PM	BS94421
Toluene	ND	0.048	mg/Kg	1	2/4/2023 12:02:00 PM	BS94421
Ethylbenzene	ND	0.048	mg/Kg	1	2/4/2023 12:02:00 PM	BS94421
Xylenes, Total	ND	0.097	mg/Kg	1	2/4/2023 12:02:00 PM	BS94421
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	2/4/2023 12:02:00 PM	BS94421

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-07

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 11:53:00 AM

 Lab ID:
 2302205-004
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 1:37:45 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	13	9.9	mg/Kg	1	2/6/2023 10:16:48 AM	73006
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/6/2023 10:16:48 AM	73006
Surr: DNOP	95.0	69-147	%Rec	1	2/6/2023 10:16:48 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	2/4/2023 12:22:00 PM	GS9442 [*]
Surr: BFB	110	37.7-212	%Rec	1	2/4/2023 12:22:00 PM	GS9442 [,]
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.021	mg/Kg	1	2/4/2023 12:22:00 PM	BS94421
Toluene	ND	0.042	mg/Kg	1	2/4/2023 12:22:00 PM	BS94421
Ethylbenzene	ND	0.042	mg/Kg	1	2/4/2023 12:22:00 PM	BS94421
Xylenes, Total	ND	0.083	mg/Kg	1	2/4/2023 12:22:00 PM	BS94421
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	2/4/2023 12:22:00 PM	BS94421

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-12

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 12:03:00 PM

 Lab ID:
 2302205-005
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 2:14:58 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 11 9.9 mg/Kg 2/6/2023 10:27:24 AM 73006 ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 2/6/2023 10:27:24 AM 73006 Surr: DNOP 93.6 2/6/2023 10:27:24 AM 69-147 %Rec 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 12:41:00 PM Gasoline Range Organics (GRO) ND GS94421 4.2 mg/Kg Surr: BFB 103 37.7-212 %Rec 2/4/2023 12:41:00 PM GS94421 Analyst: CCM **EPA METHOD 8021B: VOLATILES** ND 2/4/2023 12:41:00 PM BS94421 Benzene 0.021 mg/Kg Toluene ND 0.042 mg/Kg 2/4/2023 12:41:00 PM BS94421 Ethylbenzene ND 0.042 mg/Kg 2/4/2023 12:41:00 PM BS94421 Xylenes, Total ND 0.084 mg/Kg 2/4/2023 12:41:00 PM BS94421 Surr: 4-Bromofluorobenzene 70-130 BS94421 103 %Rec 2/4/2023 12:41:00 PM

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

Qualifiers:

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

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Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

2/4/2023 1:01:00 PM

2/4/2023 1:01:00 PM

2/4/2023 1:01:00 PM

BS94421

BS94421

BS94421

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-13

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 12:06:00 PM

 Lab ID:
 2302205-006
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 2:27:22 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 22 9.9 mg/Kg 2/6/2023 10:38:02 AM 73006 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 2/6/2023 10:38:02 AM 73006 Surr: DNOP 92.6 2/6/2023 10:38:02 AM 69-147 %Rec 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 1:01:00 PM Gasoline Range Organics (GRO) ND GS94421 4.5 mg/Kg Surr: BFB 101 37.7-212 %Rec 2/4/2023 1:01:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 1:01:00 PM BS94421 Benzene 0.023 mg/Kg Toluene ND 0.045 mg/Kg 2/4/2023 1:01:00 PM BS94421

ND

ND

102

0.045

0.090

70-130

mg/Kg

mg/Kg

%Rec

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

Qualifiers:

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

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CLIENT: ENSOLUM

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FS-03B

Project: Chaco 147H Collection Date: 2/2/2023 2:36:00 PM

Lab ID: 2302205-007 Matrix: MEOH (SOIL) **Received Date:** 2/4/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 2:39:46 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/6/2023 10:48:41 AM	73006
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/6/2023 10:48:41 AM	73006
Surr: DNOP	93.3	69-147	%Rec	1	2/6/2023 10:48:41 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	2/4/2023 1:21:00 PM	GS9442′
Surr: BFB	104	37.7-212	%Rec	1	2/4/2023 1:21:00 PM	GS9442′
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.019	mg/Kg	1	2/4/2023 1:21:00 PM	BS94421
Toluene	ND	0.038	mg/Kg	1	2/4/2023 1:21:00 PM	BS94421
Ethylbenzene	ND	0.038	mg/Kg	1	2/4/2023 1:21:00 PM	BS94421
Xylenes, Total	ND	0.076	mg/Kg	1	2/4/2023 1:21:00 PM	BS94421
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	2/4/2023 1:21:00 PM	BS94421

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

Qualifiers:

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

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Lab Order 2302205

Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/10/2023

CLIENT: ENSOLUM Client Sample ID: FS-04B

 Project:
 Chaco 147H
 Collection Date: 2/2/2023 2:40:00 PM

 Lab ID:
 2302205-008
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 2:52:11 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/6/2023 10:59:24 AM	73006
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2023 10:59:24 AM	73006
Surr: DNOP	89.2	69-147	%Rec	1	2/6/2023 10:59:24 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	2/4/2023 1:41:00 PM	GS9442 [*]
Surr: BFB	102	37.7-212	%Rec	1	2/4/2023 1:41:00 PM	GS9442 [,]
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.018	mg/Kg	1	2/4/2023 1:41:00 PM	BS94421
Toluene	ND	0.037	mg/Kg	1	2/4/2023 1:41:00 PM	BS94421
Ethylbenzene	ND	0.037	mg/Kg	1	2/4/2023 1:41:00 PM	BS94421
Xylenes, Total	ND	0.073	mg/Kg	1	2/4/2023 1:41:00 PM	BS94421
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	2/4/2023 1:41:00 PM	BS94421

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-08B

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 10:07:00 AM

 Lab ID:
 2302205-009
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 3:04:36 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.9 mg/Kg 2/6/2023 11:10:03 AM 73006 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 2/6/2023 11:10:03 AM 73006 Surr: DNOP 91.7 2/6/2023 11:10:03 AM 73006 69-147 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/4/2023 2:01:00 PM GS94421 3.9 mg/Kg Surr: BFB 104 37.7-212 %Rec 2/4/2023 2:01:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 2:01:00 PM BS94421 Benzene 0.020 mg/Kg Toluene ND 0.039 mg/Kg 2/4/2023 2:01:00 PM BS94421 Ethylbenzene ND 0.039 mg/Kg 2/4/2023 2:01:00 PM BS94421 Xylenes, Total ND 0.079 mg/Kg 2/4/2023 2:01:00 PM BS94421 Surr: 4-Bromofluorobenzene 70-130 BS94421 104 %Rec 2/4/2023 2:01:00 PM

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-09B

Project: Chaco 147H Collection Date: 2/3/2023 10:10:00 AM Lab ID: 2302205-010 Matrix: MEOH (SOIL) Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 3:17:00 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 12 9.5 mg/Kg 2/6/2023 11:20:44 AM 73006 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 2/6/2023 11:20:44 AM 73006 Surr: DNOP 91.3 2/6/2023 11:20:44 AM 69-147 %Rec 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 2:21:00 PM Gasoline Range Organics (GRO) ND GS94421 3.9 mg/Kg Surr: BFB 106 37.7-212 %Rec 2/4/2023 2:21:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 2:21:00 PM BS94421 Benzene 0.020 mg/Kg Toluene ND 0.039 mg/Kg 2/4/2023 2:21:00 PM BS94421 Ethylbenzene ND 0.039 mg/Kg 2/4/2023 2:21:00 PM BS94421 Xylenes, Total ND 0.079 mg/Kg 2/4/2023 2:21:00 PM BS94421 Surr: 4-Bromofluorobenzene 70-130 BS94421 106 %Rec 2/4/2023 2:21:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р
- Reporting Limit

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CLIENT: ENSOLUM

Analytical Report

Lab Order 2302205 Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FS-10B

Project: Chaco 147H Collection Date: 2/3/2023 1:20:00 PM

Lab ID: 2302205-011 Matrix: MEOH (SOIL) **Received Date:** 2/4/2023 7:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 3:29:24 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	11	9.3	mg/Kg	1	2/6/2023 10:18:55 AM	73006
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2023 10:18:55 AM	73006
Surr: DNOP	110	69-147	%Rec	1	2/6/2023 10:18:55 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	2/4/2023 3:00:00 PM	GS9442'
Surr: BFB	98.9	37.7-212	%Rec	1	2/4/2023 3:00:00 PM	GS9442′
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.018	mg/Kg	1	2/4/2023 3:00:00 PM	BS94421
Toluene	ND	0.037	mg/Kg	1	2/4/2023 3:00:00 PM	BS94421
Ethylbenzene	ND	0.037	mg/Kg	1	2/4/2023 3:00:00 PM	BS94421
Xylenes, Total	ND	0.074	mg/Kg	1	2/4/2023 3:00:00 PM	BS94421
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	2/4/2023 3:00:00 PM	BS94421

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-11B

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 10:13:00 AM

 Lab ID:
 2302205-012
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 3:41:48 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 11 9.5 mg/Kg 2/6/2023 10:32:45 AM 73006 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 2/6/2023 10:32:45 AM 73006 Surr: DNOP 2/6/2023 10:32:45 AM 112 69-147 %Rec 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 3:20:00 PM Gasoline Range Organics (GRO) ND GS94421 4.5 mg/Kg Surr: BFB 101 37.7-212 %Rec 2/4/2023 3:20:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 3:20:00 PM BS94421 Benzene 0.023 mg/Kg Toluene ND 0.045 mg/Kg 2/4/2023 3:20:00 PM BS94421 Ethylbenzene ND 0.045 mg/Kg 2/4/2023 3:20:00 PM BS94421 Xylenes, Total ND 0.090 mg/Kg 2/4/2023 3:20:00 PM BS94421 Surr: 4-Bromofluorobenzene 102 70-130 BS94421 %Rec 2/4/2023 3:20:00 PM

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

Qualifiers:

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

pple pH Not In Range
Outing Limit Page 12 of 28

Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-14B

Project: Chaco 147H Collection Date: 2/3/2023 10:15:00 AM Lab ID: 2302205-013 Matrix: MEOH (SOIL) Received Date: 2/4/2023 7:50:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch**

EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 3:54:12 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	SB
Diesel Range Organics (DRO)	12	9.5	mg/Kg	1	2/6/2023 10:46:34 AM	73006
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2023 10:46:34 AM	73006
Surr: DNOP	110	69-147	%Rec	1	2/6/2023 10:46:34 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	2/4/2023 3:40:00 PM	GS9442 [*]
Surr: BFB	105	37.7-212	%Rec	1	2/4/2023 3:40:00 PM	GS9442 [*]
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.017	mg/Kg	1	2/4/2023 3:40:00 PM	BS94421
Toluene	ND	0.034	mg/Kg	1	2/4/2023 3:40:00 PM	BS94421
Ethylbenzene	ND	0.034	mg/Kg	1	2/4/2023 3:40:00 PM	BS94421
Xylenes, Total	ND	0.068	mg/Kg	1	2/4/2023 3:40:00 PM	BS94421
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	2/4/2023 3:40:00 PM	BS94421

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-15B

Project: Chaco 147H Collection Date: 2/3/2023 10:18:00 AM Lab ID: 2302205-014 Matrix: MEOH (SOIL) Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 4:06:37 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 120 9.8 mg/Kg 2/6/2023 10:59:56 AM 73006 Motor Oil Range Organics (MRO) 56 49 mg/Kg 1 2/6/2023 10:59:56 AM 73006 Surr: DNOP 108 69-147 %Rec 2/6/2023 10:59:56 AM 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/4/2023 3:59:00 PM GS94421 3.9 mg/Kg Surr: BFB 105 37.7-212 %Rec 2/4/2023 3:59:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 3:59:00 PM BS94421 Benzene 0.020 mg/Kg Toluene ND 0.039 mg/Kg 2/4/2023 3:59:00 PM BS94421 Ethylbenzene ND 0.039 mg/Kg 2/4/2023 3:59:00 PM BS94421 Xylenes, Total ND 0.078 mg/Kg 2/4/2023 3:59:00 PM BS94421 Surr: 4-Bromofluorobenzene 102 70-130 BS94421 %Rec 2/4/2023 3:59:00 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р
- Reporting Limit

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CLIENT: ENSOLUM

Analytical Report

Lab Order 2302205 Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FS-01B

Project: Chaco 147H Collection Date: 2/3/2023 2:10:00 PM

Lab ID: 2302205-015 Matrix: MEOH (SOIL) **Received Date:** 2/4/2023 7:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 4:43:51 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/6/2023 11:13:22 AM	73006
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2023 11:13:22 AM	73006
Surr: DNOP	112	69-147	%Rec	1	2/6/2023 11:13:22 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	2/4/2023 4:19:00 PM	GS9442 [,]
Surr: BFB	104	37.7-212	%Rec	1	2/4/2023 4:19:00 PM	GS9442 [,]
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.022	mg/Kg	1	2/4/2023 4:19:00 PM	BS94421
Toluene	ND	0.044	mg/Kg	1	2/4/2023 4:19:00 PM	BS94421
Ethylbenzene	ND	0.044	mg/Kg	1	2/4/2023 4:19:00 PM	BS94421
Xylenes, Total	ND	0.087	mg/Kg	1	2/4/2023 4:19:00 PM	BS94421
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/4/2023 4:19:00 PM	BS94421

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

Qualifiers:

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

Sample pH Not In Range Page 15 of 28

BS94421

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

2/4/2023 4:39:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-01

Project: Chaco 147H Collection Date: 2/3/2023 10:52:00 AM Lab ID: 2302205-016 Matrix: MEOH (SOIL) Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 4:56:16 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 11 9.2 mg/Kg 2/6/2023 11:26:49 AM 73006 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 2/6/2023 11:26:49 AM 73006 Surr: DNOP 112 69-147 %Rec 2/6/2023 11:26:49 AM 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 4:39:00 PM Gasoline Range Organics (GRO) ND GS94421 4.6 mg/Kg Surr: BFB 101 37.7-212 %Rec 2/4/2023 4:39:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 4:39:00 PM BS94421 Benzene 0.023 mg/Kg Toluene ND 0.046 mg/Kg 2/4/2023 4:39:00 PM BS94421 Ethylbenzene ND 0.046 mg/Kg 2/4/2023 4:39:00 PM BS94421 Xylenes, Total ND 0.091 mg/Kg 2/4/2023 4:39:00 PM BS94421 Surr: 4-Bromofluorobenzene

100

70-130

%Rec

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Р
- Reporting Limit

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-02

Project: Chaco 147H Collection Date: 2/3/2023 1:25:00 PM

Lab ID: 2302205-017 Matrix: MEOH (SOIL) **Received Date:** 2/4/2023 7:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 5:08:40 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	14	9.9	mg/Kg	1	2/6/2023 11:40:10 AM	73006
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2023 11:40:10 AM	73006
Surr: DNOP	113	69-147	%Rec	1	2/6/2023 11:40:10 AM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/4/2023 4:58:00 PM	GS9442 [,]
Surr: BFB	105	37.7-212	%Rec	1	2/4/2023 4:58:00 PM	GS9442′
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.023	mg/Kg	1	2/4/2023 4:58:00 PM	BS94421
Toluene	ND	0.046	mg/Kg	1	2/4/2023 4:58:00 PM	BS94421
Ethylbenzene	ND	0.046	mg/Kg	1	2/4/2023 4:58:00 PM	BS94421
Xylenes, Total	ND	0.092	mg/Kg	1	2/4/2023 4:58:00 PM	BS94421
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/4/2023 4:58:00 PM	BS94421

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

Qualifiers:

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

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Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

2/4/2023 5:18:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-03

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 10:55:00 AM

 Lab ID:
 2302205-018
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 61 mg/Kg 20 2/4/2023 5:21:04 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 96 9.3 mg/Kg 2/6/2023 11:53:30 AM 73006 Motor Oil Range Organics (MRO) 54 46 mg/Kg 1 2/6/2023 11:53:30 AM 73006 Surr: DNOP 110 69-147 %Rec 2/6/2023 11:53:30 AM 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 5:18:00 PM Gasoline Range Organics (GRO) ND GS94421 4.7 mg/Kg Surr: BFB 110 37.7-212 %Rec 2/4/2023 5:18:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 5:18:00 PM BS94421 Benzene 0.024 mg/Kg Toluene ND 0.047 mg/Kg 2/4/2023 5:18:00 PM BS94421 Ethylbenzene ND 0.047 mg/Kg 2/4/2023 5:18:00 PM BS94421 Xylenes, Total ND 0.095 mg/Kg 2/4/2023 5:18:00 PM BS94421

101

70-130

%Rec

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

Qualifiers:

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

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BS94421

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 2302205

Date Reported: 2/10/2023

2/4/2023 5:38:00 PM

2/4/2023 5:38:00 PM

BS94421

BS94421

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-04

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 11:00:00 AM

 Lab ID:
 2302205-019
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/4/2023 5:33:28 PM 73002 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 10 9.5 mg/Kg 2/6/2023 12:06:55 PM 73006 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 2/6/2023 12:06:55 PM 73006 Surr: DNOP 2/6/2023 12:06:55 PM 124 69-147 %Rec 73006 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 2/4/2023 5:38:00 PM Gasoline Range Organics (GRO) ND GS94421 3.9 mg/Kg Surr: BFB 98.7 37.7-212 %Rec 2/4/2023 5:38:00 PM GS94421 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 2/4/2023 5:38:00 PM BS94421 Benzene 0.020 mg/Kg Toluene ND 0.039 mg/Kg 2/4/2023 5:38:00 PM BS94421 Ethylbenzene ND 0.039 mg/Kg 2/4/2023 5:38:00 PM BS94421

ND

99.9

0.078

70-130

mg/Kg

%Rec

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

Qualifiers:

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

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Lab Order **2302205**

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-05

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 11:03:00 AM

 Lab ID:
 2302205-020
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 5:45:53 PM	73002
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	23	9.7	mg/Kg	1	2/6/2023 12:20:33 PM	73006
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2023 12:20:33 PM	73006
Surr: DNOP	113	69-147	%Rec	1	2/6/2023 12:20:33 PM	73006
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	2/4/2023 5:57:00 PM	GS9442 [*]
Surr: BFB	96.6	37.7-212	%Rec	1	2/4/2023 5:57:00 PM	GS9442 ²
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.022	mg/Kg	1	2/4/2023 5:57:00 PM	R94421
Toluene	ND	0.044	mg/Kg	1	2/4/2023 5:57:00 PM	R94421
Ethylbenzene	ND	0.044	mg/Kg	1	2/4/2023 5:57:00 PM	R94421
Xylenes, Total	ND	0.088	mg/Kg	1	2/4/2023 5:57:00 PM	R94421
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	2/4/2023 5:57:00 PM	R94421

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

Qualifiers:

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

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Lab Order 2302205

Date Reported: 2/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-06

 Project:
 Chaco 147H
 Collection Date: 2/3/2023 11:05:00 AM

 Lab ID:
 2302205-021
 Matrix: MEOH (SOIL)
 Received Date: 2/4/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: NAI
Chloride	ND	60	mg/Kg	20	2/4/2023 3:17:10 PM	73004
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	2/6/2023 11:52:51 AM	73008
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2023 11:52:51 AM	73008
Surr: DNOP	93.4	69-147	%Rec	1	2/6/2023 11:52:51 AM	73008
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	2/4/2023 7:55:00 PM	G94421
Surr: BFB	100	37.7-212	%Rec	1	2/4/2023 7:55:00 PM	G94421
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.019	mg/Kg	1	2/4/2023 7:55:00 PM	B94421
Toluene	ND	0.039	mg/Kg	1	2/4/2023 7:55:00 PM	B94421
Ethylbenzene	ND	0.039	mg/Kg	1	2/4/2023 7:55:00 PM	B94421
Xylenes, Total	ND	0.077	mg/Kg	1	2/4/2023 7:55:00 PM	B94421
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	2/4/2023 7:55:00 PM	B94421

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2302205

10-Feb-23

Client: ENSOLUM Project: Chaco 147H

Sample ID: MB-73002 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73002 RunNo: 94416

Prep Date: 2/4/2023 Analysis Date: 2/4/2023 SeqNo: 3411066 Units: mq/Kq

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-73002 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73002 RunNo: 94416

Units: mg/Kg Prep Date: 2/4/2023 Analysis Date: 2/4/2023 SeqNo: 3411067

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Chloride 14 1.5 15.00 95.2 110

Sample ID: MB-73004 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73004 RunNo: 94417

Prep Date: 2/4/2023 Analysis Date: 2/4/2023 SeqNo: 3411174 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-73004 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73004 RunNo: 94417

Prep Date: 2/4/2023 Analysis Date: 2/4/2023 SeqNo: 3411175 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 n 96.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 22 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302205**

10-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: LCS-73006	SampTy	/pe: LC	s	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 73 0	006	R	unNo: 9	4419				
Prep Date: 2/6/2023	Analysis Da	ate: 2/	6/2023	S	eqNo: 3	411233	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.4	61.9	130			
Surr: DNOP	4.7		5.000		93.5	69	147			
Sample ID: MB-73006	SampTy	/pe: ME	BLK	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 73 0	006	R	unNo: 9	4419				
Prep Date: 2/6/2023	Analysis Da	ate: 2/	6/2023	S	eqNo: 3	411235	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 8.9	50	10.00		89.0	69	147			
										-
Sample ID: MB-73008	SampTy	•		TestCode: EPA Method 8015M/D: Diesel Ra					e Organics	
Client ID: PBS		ID: 73 0		R	unNo: 9	4419				
Prep Date: 2/6/2023	Analysis Da	ate: 2/	6/2023	S	eqNo: 3	411236	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 8.8	50	10.00		88.2	69	147			
Odii. Bivoi	0.0		10.00		00.2		177			
Sample ID: 2302205-001AMS	SampTy	/pe: MS	5	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: FS-02		ID: 73 0		R	unNo: 9	4419				
Prep Date: 2/6/2023	Analysis Da	ate: 2/	6/2023	S	eqNo: 3	411563	Units: mg/K	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.3	46.73	14.59	75.0	54.2	135			
Surr: DNOP	4.6		4.673		98.2	69	147			
Sample ID: 2302205-001AMS	D SampTy	/pe: MS	SD	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: FS-02	Batch	ID: 73 0	006	R	unNo: 9	4419				
Prep Date: 2/6/2023	Analysis Da	ate: 2/	6/2023	S	eqNo: 3	411564	Units: mg/K	(g		

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Result

52

4.9

PQL

9.9

B Analyte detected in the associated Method Blank

76.2

98.7

LowLimit

54.2

69

HighLimit

135

147

%RPD

5.43

0

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val %REC

14.59

49.65

4.965

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RPDLimit

29.2

0

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302205**

10-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 2302205-021AMS	SampT	SampType: MS TestCode: EPA Method 8015N						esel Range	e Organics	
Client ID: SW-06	Batch	ID: 73 0	800	F	RunNo: 9	4419				
Prep Date: 2/6/2023	Analysis D	ate: 2/	6/2023	8	SeqNo: 3	411566	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.31	12.58	69.7	54.2	135			
Surr: DNOP	5.4		4.931		109	69	147			

Sample ID: 2302205-021AMSD	SampT	ype: MS	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SW-06	Batch	ID: 73	800	R	RunNo: 9	4419				
Prep Date: 2/6/2023	Analysis D	ate: 2/	6/2023	S	SeqNo: 3	411567	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.6	47.94	12.58	70.9	54.2	135	0.807	29.2	
Surr: DNOP	4.9		4.794		103	69	147	0	0	

Sample ID: LCS-73008	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	Batch ID: 73008 RunNo: 94419									
Prep Date: 2/6/2023	Analysis D	ate: 2/	6/2023	S	411569	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	41	10	50.00	0	81.5	61.9	130				
Surr: DNOP	4.4		5.000		88.7	69	147				

Qualifiers:

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

Page 24 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302205

10-Feb-23

Client: ENSOLUM Project: Chaco 147H

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: **R94421** RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411252 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: BFB 1200 1000 124 37 7 212

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: GS94421 RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411253 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 105 37.7 212

Sample ID: 2.5UG GRO LCS 2 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: R94421 RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411274 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual I owl imit

120 Surr: BFB 1200 1000 37.7 212

Sample ID: mb 2 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: **G94421** RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411275 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 108 37.7 212

Sample ID: 2302205-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: FS-02 Batch ID: **GS94421** RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411279 Units: mg/Kg

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result SPK value LowLimit Qual Gasoline Range Organics (GRO) 116 70 23 4.0 20.11 130

Surr: BFB 940 804.5 116 37.7 212

Sample ID: 2302205-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: FS-02 Batch ID: GS94421 RunNo: 94421

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411280 Units: mg/Kg LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.0 20.11 0 114 70 130 2.30 20

Surr: BFB 930 804.5 116 37.7 212 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302205**

10-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 2302205-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-06** Batch ID: **G94421** RunNo: **94421**

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411281 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result 0 Gasoline Range Organics (GRO) 22 3.9 19.26 112 70 130 Surr: BFB 880 770.4 114 37.7 212

Sample ID: 2302205-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-06** Batch ID: **G94421** RunNo: **94421**

Prep Date: Analysis Date: 2/4/2023 SeqNo: 3411282 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 21 3.9 19.26 0 109 130 2.97 20 Surr: BFB 910 770.4 37.7 212 0 118 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302205**

10-Feb-23

Client: ENSOLUM Project: Chaco 147H

Sample ID: 100ng btex Ics	SampT	ype: LC	s	Tes						
Client ID: LCSS	Batcl	Batch ID: BS94421				RunNo: 94421				
Prep Date:	Analysis D	Date: 2/	4/2023	SeqNo: 3411487			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.5	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: mb	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: PBS	Batcl	h ID: BS	S94421 RunNo: 9442 1								
Prep Date:	Analysis D	Date: 2/	4/2023	SeqNo: 3411488			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130				

Sample ID: 100ng btex lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batcl	h ID: B9	4421	F	RunNo: 94	1421					
Prep Date:	Analysis D	Date: 2/	4/2023	٤	SeqNo: 34	411509	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	93.6	80	120			•	
Toluene	0.99	0.050	1.000	0	98.7	80	120				
Ethylbenzene	1.0	0.050	1.000	0	100	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130				

Sample ID: mb 2	SampT	SampType: MBLK			tCode: El	iles				
Client ID: PBS	Batcl	Batch ID: B94421			RunNo: 94421					
Prep Date:	Analysis D	Analysis Date: 2/4/2023			SeqNo: 3411510			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302205**

10-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 2302205-002ams	SampT	SampType: MS			tCode: El	tiles				
Client ID: FS-05	Batcl	h ID: BS	94421	F	RunNo: 9					
Prep Date:	Analysis Date: 2/4/2023			SeqNo: 3411514			Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.81	0.091	0.9141	0	88.4	61.5	113			
Benzene	0.83	0.023	0.9141	0	90.4	68.8	120			
Toluene	0.87	0.046	0.9141	0	95.6	73.6	124			
Ethylbenzene	0.89	0.046	0.9141	0	96.9	72.7	129			
Xylenes, Total	2.7	0.091	2.742	0	97.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9141		98.0	70	130			

Sample ID: 2302205-002amsd	SampT	уре: МЅ	SD	Tes	8021B: Volat	iles				
Client ID: FS-05	Batch	ID: BS	94421	R	RunNo: 9					
Prep Date:	Analysis Date: 2/4/2023 SeqNo: 3411515				Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9141	0	86.8	68.8	120	4.05	20	
Toluene	0.84	0.046	0.9141	0	91.8	73.6	124	4.06	20	
Ethylbenzene	0.85	0.046	0.9141	0	92.7	72.7	129	4.42	20	
Xylenes, Total	2.6	0.091	2.742	0	93.5	75.7	126	3.89	20	
Surr: 4-Bromofluorobenzene	0.90		0.9141		98.8	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/11/2023 9:02:21 AM

			•	reosne. www.	nunenvn	ommer	nut.com		
Client Name:	ENSOLUM	1	Work	Order Numbe	er: 230 2	205		Rcptl	No: 1
Received By:	Cheyenn	e Cason	2/4/202	3 7:50:00 AM	1		Chul		
Completed By:	-		2/4/202	3 7:56:40 AM	A .		Chul		
Reviewed By:	•		21-112-02-0	5 1.50.70 AN	•		Gue		
Chain of Cu	stody								
1. Is Chain of	Custody com	plete?			Yes	V	No 🗌	Not Present]
2. How was the	e sample deli	vered?			Cour	<u>ier</u>			
Log In 3. Was an atte	empt made to	cool the samp	oles?		Yes	V	No 🗆	na 🗆]
4. Were all san	nples receive	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No 🗆	na 🗆]
5. Sample(s) ii	n proper conta	ainer(s)?			Yes	V	No 🗆		
6. Sufficient sa	mple volume	for indicated t	est(s)?		Yes	V	No 🗌		
7. Are samples	(except VOA	and ONG) pr	operly preserve	ed?	Yes	V	No 🗌		
8. Was preserv	vative added t	o bottles?			Yes		No 🗹	NA 🗆	
9. Received at	least 1 vial w	ith headspace	<1/4" for AQ V	OA?	Yes		No 🗌	NA 🗹	
10. Were any sa	ample contair	ners received b	oroken?		Yes		No 🗹	# of preserved	
11. Does paper		ottle labels? nain of custody	n)		Yes	V	No 🗌	bottles checked for pH:	Per >12 unless noted)
12. Are matrices					Yes	V	No 🗆	Adjusted?	
13. Is it clear wh					Yes	V	No 🗌		_
14. Were all hole (If no, notify	_	le to be met? authorization.)		Yes	V	No 🗆	Checked by	One 2/4/2
Special Hand	dling (if ap	plicable)							
15. Was client	notified of all	discrepancies	with this order?	>	Yes		No 🗆	NA 🗹	
Perso	n Notified:			Date:		-			
By W	hom:			Via:	□ еМа	ail 🗌	Phone Fa	x In Person	
Regar	rding:					e lateral de la			
L	Instructions:								
16. Additional r	remarks:								
17. Cooler Info		4	1	No.				3	
Cooler N	lo Temp °C 0.9		Seal Intact	Seal No	Seal Da	ate	Signed By	Park Annie (1998)	
2	1.8	Good Good	Yes Yes	Morty Morty				VACCUS CONTRACTOR OF THE PROPERTY OF THE PROPE	
Ē.	11.0	10000	100	parotty [1	_	

Page 1 of 2

Received by OCD: 4/3/2023 2:31:16 PM

CC; chanson @ Rysolum. com zmyers @ Rysolum. com **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 OS TOU TON Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 82705IMS 8081 Pesticides/8082 PCB's Remarks: (PH:8015D(GRO / DRO / MRO) 0210 1573 bhor acrostan. con ပ္ Sampler: Reece Honson/Zech Myers HEAL No. 2302205 1,8,-011.8 Monday 22/h/2 0.0-0-0.0 Date 2/3/22 email or Fax#: bherb @ensolum.com Project Manager: Brooke Hub Chacs 147H 900 8 010 8 800 8 82 88 900 100 Rush / Preservative てから Cooler Temp(including CF): ¥ Yes 200 Type Turn-Around Time: # of Coolers: 2 Project Name ☐ Standard Type and # PMC 2015 Received by: Received by: Container Project #: On Ice: ☐ Level 4 (Full Validation) Chain-of-Custody Record F5-08B F5-09B FS-04B FS - 0313 -100 40-51 Sample Name FS-02 10-57 FS-13 FS-12 ☐ Az Compliance Ensolum, LL 447, 125/C HOG Relinquished by: Relinquished by: Phone #: 975-403 □ Other Mailing Address: 776 Matrix 120 8111 020 A Dunno 1203 1178 92/ 1220 1128 1206 153 2/2/23 1007 55 QA/QC Package: 1700 1010 ☐ EDD (Type) Time 95 Accreditation: Time: Time: □ Standard □ NELAC Date: Date

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

N

Received by OCD: 4/3/2023 2:31:16 PM

CL: Thanson @ ensolum. com Emyers ANALYSIS LABORATORY HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 www.hallenvironmental.com Analysis Request Total Coliform (Present/Absent) (AOV-ima2) 07S8 page 2 of CI) L' BL' 403" 405, PO4, 504 7 RCRA 8 Metals PAHs by 8310 or 82705IMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: TPH:8015D(GRO / DRO / MRO) BTEX MTBE / TMB's (8021) 122/5/3 ပ္ပ 2/4/23 0750 Time HEAL No. 2302 205 |Project Manager: ろんらん (トシレ Cooler Temp(Including CF): トターの一丁、8 X Rush Morday Date 200 120 020 Chaco 14717 7 000 215 017 019 210 510 018 Preservative COURT 500 M Yes Type Turn-Around Time: カナノ Хiа: <u>S</u> # of Coolers: 2 Project Name: □ Standard Type and # 20/7 Received by: Container Received by: m Sampler: Project #: On Ice: □ Level 4 (Full Validation) email or Fax#: ちんしん ののなっしい ~ . com Chain-of-Custody Record 20 PS-01B 40 1 25 50-25 FS-15B 30-MS Sample Name 5-143 スーニス 5 W- 02 5W-01 25 100 ☐ Az Compliance Ensolun, LLC Relinquished by: Relinguished by Atta: Brooke □ Other_ Matrix 205 1707 Mailing Address: (35% Time: 01410 QA/QC Package: Time 13/23/1013 1055 325 □ EDD (Type) 10/8 1105 1017 3 103 Time: Accreditation: □ Standard □ NELAC 1 50/2/6 Phone #: Date

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



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

February 13, 2023

Brooke Herb ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Chaco 147H OrderNo.: 2302327

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/8/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-19B

 Project:
 Chaco 147H
 Collection Date: 2/7/2023 11:30:00 AM

 Lab ID:
 2302327-001
 Matrix: MEOH (SOIL)
 Received Date: 2/8/2023 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/8/2023 11:30:49 AM 73076 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 14 mg/Kg 2/8/2023 12:02:22 PM 73070 Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 2/8/2023 12:02:22 PM 73070 Surr: DNOP 2/8/2023 12:02:22 PM 102 69-147 %Rec 73070 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/8/2023 11:15:00 AM GS94465 3.5 mg/Kg Surr: BFB 95.4 37.7-212 %Rec 2/8/2023 11:15:00 AM GS94465 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.017 2/8/2023 11:15:00 AM BS94465 Benzene mg/Kg Toluene ND 0.035 mg/Kg 2/8/2023 11:15:00 AM BS94465 Ethylbenzene ND 0.035 mg/Kg 1 2/8/2023 11:15:00 AM BS94465 Xylenes, Total ND 0.070 mg/Kg 2/8/2023 11:15:00 AM BS94465 Surr: 4-Bromofluorobenzene 70-130 BS94465 95.5 %Rec 2/8/2023 11:15:00 AM

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

Qualifiers:

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

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Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-26B

 Project:
 Chaco 147H
 Collection Date: 2/7/2023 11:35:00 AM

 Lab ID:
 2302327-002
 Matrix: MEOH (SOIL)
 Received Date: 2/8/2023 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/8/2023 11:43:14 AM 73076 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 14 mg/Kg 2/8/2023 12:16:01 PM 73070 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 2/8/2023 12:16:01 PM 73070 Surr: DNOP 103 69-147 %Rec 2/8/2023 12:16:01 PM 73070 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/8/2023 11:34:00 AM GS94465 4.0 mg/Kg Surr: BFB 99.2 37.7-212 %Rec 2/8/2023 11:34:00 AM GS94465 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.020 2/8/2023 11:34:00 AM BS94465 Benzene mg/Kg Toluene ND 0.040 mg/Kg 2/8/2023 11:34:00 AM BS94465 Ethylbenzene ND 0.040 mg/Kg 1 2/8/2023 11:34:00 AM BS94465 Xylenes, Total ND 0.080 mg/Kg 2/8/2023 11:34:00 AM BS94465 Surr: 4-Bromofluorobenzene 70-130 97.0 %Rec 2/8/2023 11:34:00 AM BS94465

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

Qualifiers:

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

Page 2 of 13

Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-15C

 Project:
 Chaco 147H
 Collection Date: 2/7/2023 12:30:00 PM

 Lab ID:
 2302327-003
 Matrix: MEOH (SOIL)
 Received Date: 2/8/2023 7:50:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 mg/Kg 20 2/8/2023 11:55:39 AM 73076 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) 15 mg/Kg 2/8/2023 12:29:36 PM 73070 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 2/8/2023 12:29:36 PM 73070 Surr: DNOP 98.8 69-147 %Rec 2/8/2023 12:29:36 PM 73070 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/8/2023 11:54:00 AM GS94465 3.5 mg/Kg Surr: BFB 98.1 37.7-212 %Rec 2/8/2023 11:54:00 AM GS94465 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.017 2/8/2023 11:54:00 AM BS94465 Benzene mg/Kg Toluene ND 0.035 mg/Kg 2/8/2023 11:54:00 AM BS94465 Ethylbenzene ND 0.035 mg/Kg 1 2/8/2023 11:54:00 AM BS94465 Xylenes, Total ND 0.070 mg/Kg 2/8/2023 11:54:00 AM BS94465 Surr: 4-Bromofluorobenzene 70-130 97.5 %Rec 2/8/2023 11:54:00 AM BS94465

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

Qualifiers:

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

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CLIENT: ENSOLUM

Analytical Report

Lab Order **2302327**Date Reported: **2/13/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW-03S

Project: Chaco 147H Collection Date: 2/7/2023 1:50:00 PM

Lab ID: 2302327-004 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	2/8/2023 12:08:03 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	2/8/2023 12:43:01 PM	73070
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/8/2023 12:43:01 PM	73070
Surr: DNOP	121	69-147	%Rec	1	2/8/2023 12:43:01 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/8/2023 12:14:00 PM	GS94465
Surr: BFB	97.5	37.7-212	%Rec	1	2/8/2023 12:14:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	2/8/2023 12:14:00 PM	BS94465
Toluene	ND	0.050	mg/Kg	1	2/8/2023 12:14:00 PM	BS94465
Ethylbenzene	ND	0.050	mg/Kg	1	2/8/2023 12:14:00 PM	BS94465
Xylenes, Total	ND	0.10	mg/Kg	1	2/8/2023 12:14:00 PM	BS94465
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	2/8/2023 12:14:00 PM	BS94465

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

Qualifiers:

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

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Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-03N

Project: Chaco 147H Collection Date: 2/7/2023 1:55:00 PM

Lab ID: 2302327-005 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	2/8/2023 12:20:27 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	20	15	mg/Kg	1	2/8/2023 12:56:50 PM	73070
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/8/2023 12:56:50 PM	73070
Surr: DNOP	117	69-147	%Rec	1	2/8/2023 12:56:50 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	2/8/2023 12:33:00 PM	GS94465
Surr: BFB	94.5	37.7-212	%Rec	1	2/8/2023 12:33:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.021	mg/Kg	1	2/8/2023 12:33:00 PM	BS94465
Toluene	ND	0.041	mg/Kg	1	2/8/2023 12:33:00 PM	BS94465
Ethylbenzene	ND	0.041	mg/Kg	1	2/8/2023 12:33:00 PM	BS94465
Xylenes, Total	ND	0.082	mg/Kg	1	2/8/2023 12:33:00 PM	BS94465
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	2/8/2023 12:33:00 PM	BS94465

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

Qualifiers:

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

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Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-20B

Project: Chaco 147H Collection Date: 2/7/2023 2:40:00 PM

Lab ID: 2302327-006 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2023 7:50:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: NAI
Chloride	ND	60	mg/Kg	20	2/8/2023 12:57:42 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	2/8/2023 1:10:31 PM	73070
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/8/2023 1:10:31 PM	73070
Surr: DNOP	118	69-147	%Rec	1	2/8/2023 1:10:31 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/8/2023 12:53:00 PM	GS94465
Surr: BFB	94.1	37.7-212	%Rec	1	2/8/2023 12:53:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	: CCM
Benzene	ND	0.024	mg/Kg	1	2/8/2023 12:53:00 PM	BS94465
Toluene	ND	0.048	mg/Kg	1	2/8/2023 12:53:00 PM	BS94465
Ethylbenzene	ND	0.048	mg/Kg	1	2/8/2023 12:53:00 PM	BS94465
Xylenes, Total	ND	0.095	mg/Kg	1	2/8/2023 12:53:00 PM	BS94465
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	2/8/2023 12:53:00 PM	BS94465

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

Qualifiers:

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

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CLIENT: ENSOLUM

Analytical Report

Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FS-21B

Project: Chaco 147H Collection Date: 2/7/2023 2:43:00 PM

Lab ID: 2302327-007 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2023 7:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	2/8/2023 1:10:06 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: DGH
Diesel Range Organics (DRO)	120	15	mg/Kg	1	2/8/2023 1:24:07 PM	73070
Motor Oil Range Organics (MRO)	60	50	mg/Kg	1	2/8/2023 1:24:07 PM	73070
Surr: DNOP	116	69-147	%Rec	1	2/8/2023 1:24:07 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	2/8/2023 1:13:00 PM	GS94465
Surr: BFB	116	37.7-212	%Rec	1	2/8/2023 1:13:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.023	mg/Kg	1	2/8/2023 1:13:00 PM	BS94465
Toluene	ND	0.045	mg/Kg	1	2/8/2023 1:13:00 PM	BS94465
Ethylbenzene	ND	0.045	mg/Kg	1	2/8/2023 1:13:00 PM	BS94465
Xylenes, Total	ND	0.091	mg/Kg	1	2/8/2023 1:13:00 PM	BS94465
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	2/8/2023 1:13:00 PM	BS94465

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

Qualifiers:

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

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Analytical Report

Lab Order 2302327

Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/13/2023

CLIENT: ENSOLUM Client Sample ID: FS-22B

Project: Chaco 147H Collection Date: 2/7/2023 2:48:00 PM

Lab ID: 2302327-008 Matrix: MEOH (SOIL) Received Date: 2/8/2023 7:50:00 AM

Analyses Result RL Qual Units DF Date Analyzed

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	60	mg/Kg	20	2/8/2023 1:22:30 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	2/8/2023 3:27:00 PM	73070
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/8/2023 3:27:00 PM	73070
Surr: DNOP	114	69-147	%Rec	1	2/8/2023 3:27:00 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	2/8/2023 1:32:00 PM	GS94465
Surr: BFB	95.5	37.7-212	%Rec	1	2/8/2023 1:32:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.018	mg/Kg	1	2/8/2023 1:32:00 PM	BS94465
Toluene	ND	0.036	mg/Kg	1	2/8/2023 1:32:00 PM	BS94465
Ethylbenzene	ND	0.036	mg/Kg	1	2/8/2023 1:32:00 PM	BS94465
Xylenes, Total	ND	0.072	mg/Kg	1	2/8/2023 1:32:00 PM	BS94465
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	2/8/2023 1:32:00 PM	BS94465

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

Qualifiers:

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

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Analytical Report

Lab Order 2302327

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-23B

Project: Chaco 147H Collection Date: 2/7/2023 2:51:00 PM

Lab ID: 2302327-009 **Matrix:** MEOH (SOIL) **Received Date:** 2/8/2023 7:50:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: NAI
Chloride	ND	59	mg/Kg	20	2/8/2023 1:34:54 PM	73076
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: DGH
Diesel Range Organics (DRO)	17	13	mg/Kg	1	2/8/2023 1:51:26 PM	73070
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/8/2023 1:51:26 PM	73070
Surr: DNOP	113	69-147	%Rec	1	2/8/2023 1:51:26 PM	73070
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	2/8/2023 1:52:00 PM	GS94465
Surr: BFB	93.8	37.7-212	%Rec	1	2/8/2023 1:52:00 PM	GS94465
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.022	mg/Kg	1	2/8/2023 1:52:00 PM	BS94465
Toluene	ND	0.044	mg/Kg	1	2/8/2023 1:52:00 PM	BS94465
Ethylbenzene	ND	0.044	mg/Kg	1	2/8/2023 1:52:00 PM	BS94465
Xylenes, Total	ND	0.089	mg/Kg	1	2/8/2023 1:52:00 PM	BS94465
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	2/8/2023 1:52:00 PM	BS94465

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2302327 13-Feb-23

WO#:

Client: ENSOLUM
Project: Chaco 147H

Sample ID: MB-73076 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73076 RunNo: 94475

Prep Date: **2/8/2023** Analysis Date: **2/8/2023** SeqNo: **3414519** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-73076 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73076 RunNo: 94475

Prep Date: 2/8/2023 Analysis Date: 2/8/2023 SeqNo: 3414520 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2302327 13-Feb-23

WO#:

Client: ENSOLUM
Project: Chaco 147H

Sample ID: MB-73070	SampT	уре: МВ	3LK	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 730)70	F	RunNo: 94	4476				
Prep Date: 2/8/2023	Analysis D)ate: 2/ 8	8/2023	SeqNo: 3413844 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	69	147			
Sample ID: LCS-73070	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						

Sample ID: LCS-73070	Samp	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batcl	n ID: 73 0	70	F	RunNo: 94	1476				
Prep Date: 2/8/2023	Analysis [Date: 2/ 8	8/2023	9	SeqNo: 34	113845	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	15	50.00	0	119	61.9	130			
Surr: DNOP	4.4		5.000		88.1	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2302327

13-Feb-23

Client: ENSOLUM Project. Chaco 147H

Project: Cha	co 147H									
Sample ID: 2.5ug gro lc	s Samp	Туре: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	ı	
Client ID: LCSS	Bato	h ID: GS	94465	F	RunNo: 94	4465				
Prep Date:	Analysis	Date: 2/8	8/2023	5	SeqNo: 34	413467	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) 29	5.0	25.00	0	116	72.3	137			
Surr: BFB	1100		1000		112	37.7	212			
Sample ID: mb	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Bato	th ID: GS	94465	F	RunNo: 94	4465				
Prep Date:	Analysis	Date: 2/3	8/2023	5	SeqNo: 34	413637	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)) ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			
Sample ID: 2302327-002	ams Samp	Туре: МЅ	3	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: FS-26B	Bato	h ID: GS	94465	F	RunNo: 94	4465				
Prep Date:	Analysis	Date: 2/ 8	8/2023	9	SeqNo: 34	414653	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)) 30	5.0	25.00	0	119	70	130			
Surr: BFB	1200		1000		119	37.7	212			
Sample ID: 2302327-002	amsd Samp	Туре: МЅ	SD .	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: FS-26B	Bato	h ID: GS	94465	F	RunNo: 94	1465				
Prep Date:	Analysis	Date: 2/ 8	8/2023	5	SeqNo: 34	414654	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)) 27	5.0	25.00	0	107	70	130	10.6	20	
Surr: BFB	1100		1000		107	37.7	212	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302327** *13-Feb-23*

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 100ng btex lcs	Samp	Гуре: LC :	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batcl	h ID: BS	94465	F	RunNo: 94	1465				
Prep Date:	Analysis [Date: 2/8	3/2023	9	SeqNo: 34	113468	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: BS	94465	F	RunNo: 94	1465				
Prep Date:	Analysis D	Date: 2/ 8	3/2023	5	SeqNo: 34	113638	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2302327-001ams	Samp	Туре: МЅ	3	Tes	stCode: EF	PA Method	8021B: Volati	les		
Client ID: FS-19B	Batc	h ID: BS	94465	F	RunNo: 94	4465				
Prep Date:	Analysis I	Date: 2/ 8	e: 2/8/2023 SeqNo: 3414				Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.5	68.8	120			
Toluene	0.96	0.050	1.000	0	95.6	73.6	124			
Ethylbenzene	0.94	0.050	1.000	0	94.1	72.7	129			
Xylenes, Total	2.8	0.10	3.000	0	94.3	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	70	130			

Sample ID: 2302327-001amsd	SampT	ype: MS	SD.	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: FS-19B	Batch	n ID: BS	94465	F	RunNo: 94	4465				
Prep Date:	Analysis D	Date: 2/8	8/2023	5	414750	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	68.8	120	6.68	20	
Toluene	0.90	0.050	1.000	0	89.6	73.6	124	6.42	20	
Ethylbenzene	0.89	0.050	1.000	0	88.9	72.7	129	5.66	20	
Xylenes, Total	2.7	0.10	3.000	0	89.0	75.7	126	5.77	20	
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/11/2023 9:02:21 AM

Client Name:	ENSOLUM		Work	Order Num	ber: 2302327		RcptNo:	1
Received By:	Sean Livi	ngston	2/7/202	3 5:18:00 F	PM	Sal	got	
Completed By:	Sean Livi	ngston	2/8/202	3 8:02:45 A	М	Sili Sili	n =6	
Reviewed By:	ft 2-	8-23				رب ال	301	
Chain of Cust	tody							
1. Is Chain of Cu	stody comp	lete?			Yes 🗹	No 🗌	Not Present	
2. How was the s	sample deliv	ered?			<u>Courier</u>			
<u>Log In</u>						_		
3. Was an attem	pt made to o	cool the samp	les?		Yes 🗹	No 🗌	NA 🗌	
4. Were all samp	les received	at a tempera	ature of >0° C	to 6.0°C	Yes 🗹	No 🗌	NA □	
5. Sample(s) in p	roper conta	iner(s)?			Yes 🗹	No 🗌		
6. Sufficient samp	ole volume f	or indicated t	est(s)?		Yes 🗹	No 🗌		
7. Are samples (e	except VOA	and ONG) pr	operly preserv	ed?	Yes 🗹	No 🗌		
8. Was preservat	ive added to	bottles?			Yes 🗌	No 🗹	NA 🗌	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	OA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sam	ple containe	ers received b	oroken?		Yes 📙	No ☑	# of preserved	
11. Does paperwo	rk match bot	tle labels?			Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepa			-		🖼		(<2 or Adjusted?	>12 unless noted)
12. Are matrices co					Yes 🗹	No ∐	Adjusted:	
13. Is it clear what			 ?		Yes 🗹	No ∐ Na □	Checked by:	10/0/
 Were all holdin (If no, notify cu 	_				Yes 🗹	No ∐ ∫	checked by.	2/0/
Special Handli	ng (if app	licable)						
15. Was client not	ified of all d	screpancies	with this order	? 	Yes 🗌	No 🗆	NA 🗹	
Person i				Date	Г			
By Whoi				Via:	eMail	Phone Fax	☐ In Person	
Regardir	-							
	structions:							
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17. Cooler Inform		0		10			i	
Cooler No	Temp ℃ 0.2	Condition	Seal Intact	Seal No	Seal Date	Signed By		
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	Project Name:	111	SCIPL		*	ww.halle	nvironr	www.hallenvironmental.com		
Mailing Address: ナチ E 2ry Arc	3 T	Chaco 14717	++	4901	4901 Hawkins NE		Albuque	Albuquerque, NM 87109	187109	
Durys, 60 81361	Project #:			Tel.	Tel. 505-345-3975		Fax 5	505-345-4107	1107	
Phone #: 770- 4/03- (824)						An	alysis F	Analysis Request		
email or Fax#: 6her 6 B. engsin m. Com	Project Manager		(c 14vb	(O			700	(ju		
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1230 FS-15C			500							
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872-57 BHAI		THE RESERVE AND ADDRESS OF THE PARTY OF THE	100			(I) Open (II)	1		3	
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The contracted to Hell Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ubcontracted to other a	ccredited laboratoric	es. This serves as notice of th	s possibility. An	y sub-contra	cted data w	Il be clearly	notated on	the analytical report.	7

Released to Imaging: AJI/2023 9:02:21 AM



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

February 13, 2023

Brooke Herb ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: Chaco 147H OrderNo.: 2302429

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/9/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-24B

Project: Chaco 147H Collection Date: 2/8/2023 11:48:00 AM

Lab ID: 2302429-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 11:07:46 AM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	2/9/2023 11:40:02 AM	73100
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/9/2023 11:40:02 AM	73100
Surr: DNOP	119	69-147	%Rec	1	2/9/2023 11:40:02 AM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	2/9/2023 11:18:00 AM	GS94497
Surr: BFB	94.5	37.7-212	%Rec	1	2/9/2023 11:18:00 AM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.020	mg/Kg	1	2/9/2023 11:18:00 AM	BS94497
Toluene	ND	0.039	mg/Kg	1	2/9/2023 11:18:00 AM	BS94497
Ethylbenzene	ND	0.039	mg/Kg	1	2/9/2023 11:18:00 AM	BS94497
Xylenes, Total	ND	0.078	mg/Kg	1	2/9/2023 11:18:00 AM	BS94497
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	2/9/2023 11:18:00 AM	BS94497

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

Qualifiers:

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

Page 1 of 16

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2302429

Date Reported: 2/13/2023

2/9/2023 11:38:00 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-25B

 Project:
 Chaco 147H
 Collection Date: 2/8/2023 11:53:00 AM

 Lab ID:
 2302429-002
 Matrix: MEOH (SOIL)
 Received Date: 2/9/2023 7:15:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 2/9/2023 11:20:11 AM 73097 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **mb** Diesel Range Organics (DRO) 14 mg/Kg 2/9/2023 11:54:10 AM 73100 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 2/9/2023 11:54:10 AM 73100 Surr: DNOP 119 69-147 %Rec 2/9/2023 11:54:10 AM 73100 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/9/2023 11:38:00 AM GS94497 4.5 mg/Kg Surr: BFB 102 37.7-212 %Rec 2/9/2023 11:38:00 AM GS94497 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.022 2/9/2023 11:38:00 AM BS94497 Benzene mg/Kg Toluene ND 0.045 mg/Kg 2/9/2023 11:38:00 AM BS94497 Ethylbenzene ND 0.045 mg/Kg 1 2/9/2023 11:38:00 AM BS94497 Xylenes, Total ND 0.090 mg/Kg 2/9/2023 11:38:00 AM BS94497

94.7

70-130

%Rec

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

Qualifiers:

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

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BS94497

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report Lab Order 2302429

Date Reported: 2/13/2023

Analyst: CCM

BS94497

BS94497

BS94497

BS94497

BS94497

2/9/2023 11:57:00 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-27B

 Project:
 Chaco 147H
 Collection Date: 2/8/2023 12:20:00 PM

 Lab ID:
 2302429-003
 Matrix: MEOH (SOIL)
 Received Date: 2/9/2023 7:15:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 2/9/2023 11:32:36 AM 73097 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **mb** Diesel Range Organics (DRO) 15 mg/Kg 2/9/2023 12:08:29 PM 73100 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 2/9/2023 12:08:29 PM 73100 Surr: DNOP 117 69-147 %Rec 2/9/2023 12:08:29 PM 73100 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/9/2023 11:57:00 AM GS94497 mg/Kg 4.1 Surr: BFB 102 37.7-212 %Rec 2/9/2023 11:57:00 AM GS94497

ND

ND

ND

ND

98.5

0.020

0.041

0.041

0.081

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-28B

Project: Chaco 147H Collection Date: 2/8/2023 12:23:00 PM Lab ID: 2302429-004 Matrix: MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 11:45:00 AM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: mb
Diesel Range Organics (DRO)	280	15	mg/Kg	1	2/9/2023 12:22:24 PM	73100
Motor Oil Range Organics (MRO)	89	49	mg/Kg	1	2/9/2023 12:22:24 PM	73100
Surr: DNOP	109	69-147	%Rec	1	2/9/2023 12:22:24 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: CCM
Gasoline Range Organics (GRO)	18	14	mg/Kg	5	2/9/2023 12:37:00 PM	GS94497
Surr: BFB	160	37.7-212	%Rec	5	2/9/2023 12:37:00 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.072	mg/Kg	5	2/9/2023 12:37:00 PM	BS94497
Toluene	ND	0.14	mg/Kg	5	2/9/2023 12:37:00 PM	BS94497
Ethylbenzene	ND	0.14	mg/Kg	5	2/9/2023 12:37:00 PM	BS94497
Xylenes, Total	0.47	0.29	mg/Kg	5	2/9/2023 12:37:00 PM	BS94497
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	5	2/9/2023 12:37:00 PM	BS94497

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-29B

 Project:
 Chaco 147H
 Collection Date: 2/8/2023 12:27:00 PM

 Lab ID:
 2302429-005
 Matrix: MEOH (SOIL)
 Received Date: 2/9/2023 7:15:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 2/9/2023 11:57:24 AM 73097 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **mb** Diesel Range Organics (DRO) 14 mg/Kg 2/9/2023 12:36:00 PM 73100 Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 2/9/2023 12:36:00 PM 73100 Surr: DNOP 113 69-147 %Rec 2/9/2023 12:36:00 PM 73100 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 2/9/2023 12:17:00 PM GS94497 mg/Kg 3.1 Surr: BFB 96.8 37.7-212 %Rec 2/9/2023 12:17:00 PM GS94497 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.016 2/9/2023 12:17:00 PM BS94497 Benzene mg/Kg Toluene ND 0.031 mg/Kg 2/9/2023 12:17:00 PM BS94497 Ethylbenzene ND 0.031 mg/Kg 1 2/9/2023 12:17:00 PM BS94497 Xylenes, Total ND 0.063 mg/Kg 2/9/2023 12:17:00 PM BS94497 Surr: 4-Bromofluorobenzene 70-130 BS94497 95.0 %Rec 2/9/2023 12:17:00 PM

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-30

Project: Chaco 147H Collection Date: 2/8/2023 1:03:00 PM

Lab ID: 2302429-006 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL ·	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 12:09:48 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: mb
Diesel Range Organics (DRO)	16	14	mg/Kg	1	2/9/2023 12:50:17 PM	73100
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/9/2023 12:50:17 PM	73100
Surr: DNOP	114	69-147	%Rec	1	2/9/2023 12:50:17 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	5.6	mg/Kg	1	2/9/2023 11:23:00 AM	GS94497
Surr: BFB	94.4	37.7-212	%Rec	1	2/9/2023 11:23:00 AM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.028	mg/Kg	1	2/9/2023 11:23:00 AM	BS94497
Toluene	ND	0.056	mg/Kg	1	2/9/2023 11:23:00 AM	BS94497
Ethylbenzene	ND	0.056	mg/Kg	1	2/9/2023 11:23:00 AM	BS94497
Xylenes, Total	ND	0.11	mg/Kg	1	2/9/2023 11:23:00 AM	BS94497
Surr: 4-Bromofluorobenzene	81.6	70-130	%Rec	1	2/9/2023 11:23:00 AM	BS94497

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

Qualifiers:

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

Page 6 of 16

CLIENT: ENSOLUM

Analytical Report Lab Order 2302429

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: FS-16B

Project: Chaco 147H Collection Date: 2/8/2023 1:33:00 PM

Lab ID: 2302429-007 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 12:22:13 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: mb
Diesel Range Organics (DRO)	40	15	mg/Kg	1	2/9/2023 1:03:37 PM	73100
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/9/2023 1:03:37 PM	73100
Surr: DNOP	125	69-147	%Rec	1	2/9/2023 1:03:37 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	8.1	mg/Kg	2	2/9/2023 11:46:23 AM	GS94497
Surr: BFB	107	37.7-212	%Rec	2	2/9/2023 11:46:23 AM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.040	mg/Kg	2	2/9/2023 11:46:23 AM	BS94497
Toluene	ND	0.081	mg/Kg	2	2/9/2023 11:46:23 AM	BS94497
Ethylbenzene	ND	0.081	mg/Kg	2	2/9/2023 11:46:23 AM	BS94497
Xylenes, Total	ND	0.16	mg/Kg	2	2/9/2023 11:46:23 AM	BS94497
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	2	2/9/2023 11:46:23 AM	BS94497

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-17B

Project: Chaco 147H Collection Date: 2/8/2023 1:36:00 PM

Lab ID: 2302429-008 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 12:34:38 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: mb
Diesel Range Organics (DRO)	14	14	mg/Kg	1	2/9/2023 1:17:14 PM	73100
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/9/2023 1:17:14 PM	73100
Surr: DNOP	120	69-147	%Rec	1	2/9/2023 1:17:14 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/9/2023 12:09:52 PM	GS94497
Surr: BFB	98.3	37.7-212	%Rec	1	2/9/2023 12:09:52 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.023	mg/Kg	1	2/9/2023 12:09:52 PM	BS94497
Toluene	ND	0.046	mg/Kg	1	2/9/2023 12:09:52 PM	BS94497
Ethylbenzene	ND	0.046	mg/Kg	1	2/9/2023 12:09:52 PM	BS94497
Xylenes, Total	ND	0.092	mg/Kg	1	2/9/2023 12:09:52 PM	BS94497
Surr: 4-Bromofluorobenzene	83.8	70-130	%Rec	1	2/9/2023 12:09:52 PM	BS94497

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-18B

Project: Chaco 147H Collection Date: 2/8/2023 1:40:00 PM

Lab ID: 2302429-009 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 1:11:52 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	2/9/2023 1:30:59 PM	73100
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/9/2023 1:30:59 PM	73100
Surr: DNOP	122	69-147	%Rec	1	2/9/2023 1:30:59 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	2/9/2023 12:33:22 PM	GS94497
Surr: BFB	97.1	37.7-212	%Rec	1	2/9/2023 12:33:22 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.019	mg/Kg	1	2/9/2023 12:33:22 PM	BS94497
Toluene	ND	0.038	mg/Kg	1	2/9/2023 12:33:22 PM	BS94497
Ethylbenzene	ND	0.038	mg/Kg	1	2/9/2023 12:33:22 PM	BS94497
Xylenes, Total	ND	0.075	mg/Kg	1	2/9/2023 12:33:22 PM	BS94497
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	2/9/2023 12:33:22 PM	BS94497

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

Qualifiers:

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

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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2302429

Date Reported: 2/13/2023

2/9/2023 12:56:49 PM

BS94497

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-07

Chaco 147H **Project:** Collection Date: 2/8/2023 1:55:00 PM Lab ID: 2302429-010 Matrix: MEOH (SOIL) Received Date: 2/9/2023 7:15:00 AM

Analyses Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 2/9/2023 1:24:16 PM 73097 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 13 mg/Kg 2/9/2023 1:45:01 PM 73100

Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/9/2023 1:45:01 PM	73100
Surr: DNOP	117	69-147	%Rec	1	2/9/2023 1:45:01 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	2/9/2023 12:56:49 PM	GS94497
Surr: BFB	96.8	37.7-212	%Rec	1	2/9/2023 12:56:49 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
EPA METHOD 8021B: VOLATILES Benzene	ND	0.020	mg/Kg	1	Analyst 2/9/2023 12:56:49 PM	: JJP BS94497
	ND ND	0.020 0.041	mg/Kg mg/Kg	1	,	
Benzene			0 0	1 1 1	2/9/2023 12:56:49 PM	BS94497

84.1

70-130

%Rec

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-08

Project: Chaco 147H Collection Date: 2/8/2023 2:00:00 PM

Lab ID: 2302429-011 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 1:36:41 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analys	st: mb
Diesel Range Organics (DRO)	17	15	mg/Kg	1	2/9/2023 1:58:42 PM	73100
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/9/2023 1:58:42 PM	73100
Surr: DNOP	114	69-147	%Rec	1	2/9/2023 1:58:42 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	st: JJP
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	2/9/2023 1:20:16 PM	GS94497
Surr: BFB	99.0	37.7-212	%Rec	1	2/9/2023 1:20:16 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	st: JJP
Benzene	ND	0.021	mg/Kg	1	2/9/2023 1:20:16 PM	BS94497
Toluene	ND	0.043	mg/Kg	1	2/9/2023 1:20:16 PM	BS94497
Ethylbenzene	ND	0.043	mg/Kg	1	2/9/2023 1:20:16 PM	BS94497
Xylenes, Total	ND	0.086	mg/Kg	1	2/9/2023 1:20:16 PM	BS94497
Surr: 4-Bromofluorobenzene	85.6	70-130	%Rec	1	2/9/2023 1:20:16 PM	BS94497

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

Qualifiers:

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

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Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-09

Project: Chaco 147H Collection Date: 2/8/2023 2:15:00 PM

Lab ID: 2302429-012 **Matrix:** MEOH (SOIL) **Received Date:** 2/9/2023 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	2/9/2023 1:49:05 PM	73097
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	st: mb
Diesel Range Organics (DRO)	29	14	mg/Kg	1	2/9/2023 2:12:36 PM	73100
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/9/2023 2:12:36 PM	73100
Surr: DNOP	108	69-147	%Rec	1	2/9/2023 2:12:36 PM	73100
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: JJP
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	2/9/2023 1:43:50 PM	GS94497
Surr: BFB	98.6	37.7-212	%Rec	1	2/9/2023 1:43:50 PM	GS94497
EPA METHOD 8021B: VOLATILES					Analys	t: JJP
Benzene	ND	0.019	mg/Kg	1	2/9/2023 1:43:50 PM	BS94497
Toluene	ND	0.037	mg/Kg	1	2/9/2023 1:43:50 PM	BS94497
Ethylbenzene	ND	0.037	mg/Kg	1	2/9/2023 1:43:50 PM	BS94497
Xylenes, Total	ND	0.074	mg/Kg	1	2/9/2023 1:43:50 PM	BS94497
Surr: 4-Bromofluorobenzene	82.5	70-130	%Rec	1	2/9/2023 1:43:50 PM	BS94497

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302429**

13-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: MB-73097 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73097 RunNo: 94508

Prep Date: **2/9/2023** Analysis Date: **2/9/2023** SeqNo: **3415573** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-73097 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73097 RunNo: 94508

Prep Date: 2/9/2023 Analysis Date: 2/9/2023 SeqNo: 3415574 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.0 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

67

6.4

15

49.80

4.980

WO#: **2302429** *13-Feb-23*

Client: ENSOLUM
Project: Chaco 147H

Sample ID: MB-73100	SampType	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID:	73100	F	RunNo: 94	509				
Prep Date: 2/9/2023	Analysis Date:	2/9/2023	5	SeqNo: 34	15382	Units: mg/K	g		
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	9.9	10.00		99.1	69	147			
Sample ID: LCS-73100	SampType	LCS	Tes	tCode: EP	A Method	8015M/D: Die:	sel Range	Organics	
Client ID: LCSS	Batch ID:	73100	F	RunNo: 94	509				
Prep Date: 2/9/2023	Analysis Date:	2/9/2023	S	SeqNo: 34	15383	Units: mg/K	g		
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	15 50.00	0	115	61.9	130			
Surr: DNOP	5.1	5.000		103	69	147			
Sample ID: 2302429-012AMS	SampType	MS	Tes	tCode: EP	A Method	8015M/D: Die:	sel Range	Organics	
							_	_	
Client ID: SW-09	Batch ID:			RunNo: 94	509				
Client ID: SW-09 Prep Date: 2/9/2023		73100	F	RunNo: 94 SeqNo: 34		Units: mg/K	g	-	

Sample ID: 2302429-012AM	SD Samp1	уре: МЅ	SD .	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SW-09	Batcl	n ID: 73 1	100	F	RunNo: 94	4509					
Prep Date: 2/9/2023	Analysis [Date: 2/ 9	9/2023	5	SeqNo: 34	415397	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	69	15	48.59	29.01	83.0	54.2	135	3.59	29.2		
Surr: DNOP	6.0		4 859		123	69	147	0	0		

29.01

76.1

129

54.2

69

135

147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Diesel Range Organics (DRO)

Surr: DNOP

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

860

WO#: **2302429** *13-Feb-23*

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 2.5ug gro lcs	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch	ID: GS	D: GS94497 RunNo: 94497							
Prep Date:	Analysis D	ate: 2/ 9	9/2023	9	SeqNo: 34	114883	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	72.3	137			
Surr: BFB	1100		1000		106	37.7	212			
Sample ID: mb	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	!	
Client ID: PBS	Batch	ID: GS	94497	F	RunNo: 94	1497				
Prep Date:	Analysis D	ate: 2/ 9	9/2023	9	SeqNo: 34	114948	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.3	37.7	212			
Sample ID: 2302429-001ams	SampT	ype: MS	i	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	ı	
Client ID: FS-24B	Batch	ID: GS	94497	F	RunNo: 94	1498				
Prep Date:	Analysis D	ate: 2/ 9	9/2023	9	SeqNo: 34	116379	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	3.9	19.56	0	115	70	130			

Sample ID: 2302429-001ams	a Sampi	ype. WS	טפ	res	8015D: Gasoi	ine Range	•			
Client ID: FS-24B	Batch	n ID: GS	94497	F	RunNo: 94	1498				
Prep Date:	Analysis D	oate: 2/9	9/2023	5	SeqNo: 34	416380	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.9	19.56	0	107	70	130	7.48	20	
Surr: BFB	830		782.5		107	37.7	212	0	0	

110

37.7

212

782.5

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302429**

13-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 100ng btex lcs	Samp	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batcl	h ID: BS	94497	F	RunNo: 94	1497				
Prep Date:	Analysis [Date: 2/ 9	9/2023	(SeqNo: 34	414892	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.5	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.4	70	130			

Sample ID: mb	Samp1	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: BS	94497	F	RunNo: 94	1497				
Prep Date:	Analysis D	Date: 2/ 9	9/2023	5	SeqNo: 34	414949	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Sample ID: 2302429-002ams	Samp [¬]	Гуре: МЅ	}	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: FS-25B	Batc	h ID: BS	94497	F	RunNo: 94	4498				
Prep Date:	Analysis [Date: 2/ 9	9/2023	5	SeqNo: 34	416502	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.022	0.8993	0	97.6	68.8	120			
Toluene	0.89	0.045	0.8993	0	99.1	73.6	124			
Ethylbenzene	0.87	0.045	0.8993	0	97.1	72.7	129			
Xylenes, Total	2.6	0.090	2.698	0.02185	96.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.8993		91.3	70	130			

Sample ID: 2302429-002amsd	SampT	Гуре: М S	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: FS-25B	Batcl	h ID: BS	94497	F	RunNo: 94	4498				
Prep Date:	Analysis D	Date: 2/ 9	9/2023	5	SeqNo: 34	416503	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.022	0.8993	0	91.3	68.8	120	6.75	20	
Toluene	0.83	0.045	0.8993	0	92.6	73.6	124	6.83	20	
Ethylbenzene	0.83	0.045	0.8993	0	92.0	72.7	129	5.46	20	
Xylenes, Total	2.5	0.090	2.698	0.02185	91.7	75.7	126	5.36	20	
Surr: 4-Bromofluorobenzene	0.81		0.8993		90.5	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/11/2023 9:02:21 AM

				websue: www.n	unenvironme			
Client Name:	ENSOLUM		Work	Order Numbe	r: 2302429		RcptNo	o: 1
Received By:	Juan Roja	as	2/9/202	23 7:15:00 AM		Howard		
Completed By:	Tracy Cas			3 7:32:56 AM				
Reviewed By:	11	R-23	2/0/202	.02.007(10)				
Chain of Cust	tody							
1. Is Chain of Cu	stody comp	lete?			Yes 🗹	No 🗌	Not Present	
2. How was the s	sample deliv	ered?			Courier			
<u>Log In</u>								
3. Was an attem	pt made to o	cool the samp	oles?		Yes 🗹	No 📙	NA 📙	
4. Were all samp	les received	at a tempera	ature of >0° C	to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes 🗹	No 🗌		
6. Sufficient samp	ole volume f	or indicated t	est(s)?		Yes 🗹	No 🗌		
7. Are samples (e	except VOA	and ONG) pr	operly preserv	ed?	Yes 🗸	No 🗌		
8. Was preservat	ive added to	bottles?			Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sam	ple containe	ers received b	oroken?		Yes 🗌	No 🗹	# of preserved	
11.Does paperwork (Note discrepa			')		Yes 🗸	No 🗆	bottles checked for pH:	or >12 unless noted)
12. Are matrices co	orrectly iden	tified on Chai	n of Custody?		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested	1?		Yes 🗹	No 🗌		. 1 1
14.Were all holdin (If no, notify cu			ı		Yes 🗹	No 🗆	Checked by:	In 219/23
Special Handli	ng (if app	olicable)						
15. Was client not	ified of all d	screpancies	with this order	?	Yes 🗌	No 🗆	NA 🗹	
Person N	Notified:		27-11-1	Date:				
By Whoi	n:			Via: [eMail] Phone [] Fax	☐ In Person	
Regardir	ng: structions:							
16. Additional ren								
17. Cooler Inform Cooler No	nation Temp °C	Condition	Coal Intert	Cont No	Coal Data	Cierral D		
1	0.3	Good	Seal Intact Yes	Seal No S	Seal Date	Signed By		
2	1.6	Good	Yes	Morty				
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ភ	Jain	of-Cr	Chain-of-Custody Record	Turn-Around Time:	Time:	(5/19/0)			i			1	1	
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Mailing Address: 776 (ddress	44	6 E 2nd Ave)	57		4901	4901 Hawkins NE	s NE	Albuqu	ierque,	Albuquerque, NM 87109		
Du	Du 12120	07	8/30)	Project #:			Tel. 5	505-345-3975	-3975	Fax		505-345-4107		
Phone #:		970-403	103-6824			Sec. 364			Ā	Analysis	Request	est		
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				Cooler Temp(including CF):	(including CF):	(0.2.9=1.0-KV	12D	etpo			imə	Olitoi		
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Date		Matrix	Sample Name	#	Type	23	Id]	EDI	ISGI	85e	728	2101		
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ž	ecessary,	shmoles sur	submitted to Hall Environmental may be subcommerted to other accom-	contracted to other a	coredited laboratories	ies. This serves as notice of this possibility.		e ih-contra	atan hata	gold and Illu	als, notator	Any sub-contracted data will be clearly notated on the analytic	al report	

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



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

February 16, 2023

Brooke Herb ENSOLUM 606 S. Rio Grande Suite A Aztec, NM 87410 TEL: (903) 821-5603 FAX

ГАХ

RE: Chaco 147H OrderNo.: 2302531

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/11/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-21E

Project: Chaco 147H **Collection Date:** 2/10/2023 10:45:00 AM

Lab ID: 2302531-001 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2023 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	2/13/2023 11:08:07 AM	73155
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/13/2023 11:46:28 AM	73149
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/13/2023 11:46:28 AM	73149
Surr: DNOP	93.7	69-147	%Rec	1	2/13/2023 11:46:28 AM	73149
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	2/13/2023 11:25:38 AM	GS94566
Surr: BFB	106	37.7-212	%Rec	1	2/13/2023 11:25:38 AM	GS94566
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.017	mg/Kg	1	2/13/2023 11:25:38 AM	R94566
Toluene	ND	0.035	mg/Kg	1	2/13/2023 11:25:38 AM	R94566
Ethylbenzene	ND	0.035	mg/Kg	1	2/13/2023 11:25:38 AM	R94566
Xylenes, Total	ND	0.069	mg/Kg	1	2/13/2023 11:25:38 AM	R94566
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	2/13/2023 11:25:38 AM	R94566

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Date Reported: 2/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-21W

Project: Chaco 147H **Collection Date:** 2/10/2023 10:50:00 AM

Lab ID: 2302531-002 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2023 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	2/13/2023 11:20:32 AM	73155
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/13/2023 12:18:02 PM	73149
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/13/2023 12:18:02 PM	73149
Surr: DNOP	97.4	69-147	%Rec	1	2/13/2023 12:18:02 PM	73149
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/13/2023 11:49:44 AM	GS94566
Surr: BFB	107	37.7-212	%Rec	1	2/13/2023 11:49:44 AM	GS94566
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.024	mg/Kg	1	2/13/2023 11:49:44 AM	R94566
Toluene	ND	0.049	mg/Kg	1	2/13/2023 11:49:44 AM	R94566
Ethylbenzene	ND	0.049	mg/Kg	1	2/13/2023 11:49:44 AM	R94566
Xylenes, Total	ND	0.097	mg/Kg	1	2/13/2023 11:49:44 AM	R94566
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	2/13/2023 11:49:44 AM	R94566

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-28E

Project: Chaco 147H **Collection Date:** 2/10/2023 12:23:00 PM

Lab ID: 2302531-003 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2023 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	2/13/2023 11:32:57 AM	73155
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/13/2023 12:28:36 PM	73149
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/13/2023 12:28:36 PM	73149
Surr: DNOP	87.3	69-147	%Rec	1	2/13/2023 12:28:36 PM	73149
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	2/13/2023 12:13:51 PM	GS94566
Surr: BFB	109	37.7-212	%Rec	1	2/13/2023 12:13:51 PM	GS94566
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.017	mg/Kg	1	2/13/2023 12:13:51 PM	R94566
Toluene	ND	0.035	mg/Kg	1	2/13/2023 12:13:51 PM	R94566
Ethylbenzene	ND	0.035	mg/Kg	1	2/13/2023 12:13:51 PM	R94566
Xylenes, Total	ND	0.070	mg/Kg	1	2/13/2023 12:13:51 PM	R94566
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	2/13/2023 12:13:51 PM	R94566

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: FS-28W

Project: Chaco 147H **Collection Date:** 2/10/2023 12:25:00 PM

Lab ID: 2302531-004 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2023 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	2/13/2023 11:45:21 AM	73155
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/13/2023 12:39:32 PM	73149
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/13/2023 12:39:32 PM	73149
Surr: DNOP	89.5	69-147	%Rec	1	2/13/2023 12:39:32 PM	73149
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	2/13/2023 12:38:05 PM	GS94566
Surr: BFB	111	37.7-212	%Rec	1	2/13/2023 12:38:05 PM	GS94566
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.017	mg/Kg	1	2/13/2023 12:38:05 PM	R94566
Toluene	ND	0.034	mg/Kg	1	2/13/2023 12:38:05 PM	R94566
Ethylbenzene	ND	0.034	mg/Kg	1	2/13/2023 12:38:05 PM	R94566
Xylenes, Total	ND	0.069	mg/Kg	1	2/13/2023 12:38:05 PM	R94566
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	2/13/2023 12:38:05 PM	R94566

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 2/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM Client Sample ID: SW-10

Project: Chaco 147H **Collection Date:** 2/10/2023 12:28:00 PM

Lab ID: 2302531-005 **Matrix:** MEOH (SOIL) **Received Date:** 2/11/2023 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	2/13/2023 11:57:45 AM	73155
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/13/2023 12:50:08 PM	73149
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/13/2023 12:50:08 PM	73149
Surr: DNOP	92.5	69-147	%Rec	1	2/13/2023 12:50:08 PM	73149
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	2/13/2023 1:02:20 PM	GS94566
Surr: BFB	110	37.7-212	%Rec	1	2/13/2023 1:02:20 PM	GS94566
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.017	mg/Kg	1	2/13/2023 1:02:20 PM	R94566
Toluene	ND	0.034	mg/Kg	1	2/13/2023 1:02:20 PM	R94566
Ethylbenzene	ND	0.034	mg/Kg	1	2/13/2023 1:02:20 PM	R94566
Xylenes, Total	ND	0.069	mg/Kg	1	2/13/2023 1:02:20 PM	R94566
Surr: 4-Bromofluorobenzene	86.8	70-130	%Rec	1	2/13/2023 1:02:20 PM	R94566

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302531** *16-Feb-23*

Client: ENSOLUM
Project: Chaco 147H

Sample ID: MB-73155 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 73155 RunNo: 94562

Prep Date: 2/13/2023 Analysis Date: 2/13/2023 SeqNo: 3419077 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-73155 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73155 RunNo: 94562

Prep Date: 2/13/2023 Analysis Date: 2/13/2023 SeqNo: 3419078 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.6 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302531 16-Feb-23

WO#:

Client: ENSOLUM Project: Chaco 147H

Sample ID: 2302531-001AMS	SampT	уре: М\$	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: FS-21E	Batch	1D: 73	149	F	RunNo: 9	4563				
Prep Date: 2/13/2023	Analysis D	ate: 2/	13/2023	S	SeqNo: 3	418327	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.4	47.04	0	96.1	54.2	135			
Surr: DNOP	4.3		4.704		90.9	69	147			

Sample ID: 2302531-001AMSE	Sampi	уре: м .	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: FS-21E	Batch	ID: 73	149	F	RunNo: 9	4563				
Prep Date: 2/13/2023	Analysis D	ate: 2/	13/2023	8	SeqNo: 3	418328	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.70	0	87.5	54.2	135	3.82	29.2	
Surr: DNOP	5.1		4.970		103	69	147	0	0	

Sample ID: LCS-73149	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 73	149	R	RunNo: 9	4563				
Prep Date: 2/13/2023	Analysis D	Analysis Date: 2/13/2023			SeqNo: 341833			(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.9	61.9	130			
Surr: DNOP	4.0		5.000		79.6	69	147			

Sample ID: MB-73149	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 73	149	F	RunNo: 9	4563				
Prep Date: 2/13/2023	Analysis D	oate: 2/	13/2023	5	SeqNo: 3	418334	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302531** *16-Feb-23*

Client: ENSOLUM Project: Chaco 147H

Sample ID: 2.5ug gro lcs	•	SampType: LCS Batch ID: GS94566					8015D: Gaso	line Rang	е	
Client ID: LCSS	Batc	h ID: GS	94566	F	RunNo: 9	4566				
Prep Date:	Analysis [Date: 2/	13/2023	5	SeqNo: 3	418356	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30 5.0 25.00			0	118	72.3	137			
Surr: BFB	1200	1200 1000			117	37.7	212			
Sample ID: mb	Samp	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batc	Batch ID: GS94566			RunNo: 94566					
Prep Date:	Analysis [Analysis Date: 2/13/2023			SeqNo: 3	418357	Units: mg/K	(g		
A L - L -	Daniell	D 1/ DOL ODI/ 1 0			2/050	Land tast	1.12 - 1.1.2 20	0/ DDD	DDDI (m.)	0

Ciletti ID. FB3	Dato	Datch ID. G394300			1\u0111\u0. 94300					
Prep Date:	Analysis Date: 2/13/2023			8	SeqNo: 3	418357	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Sample ID: 2302531-001ams	SampT	уре: М S	3	Test	е					
Client ID: FS-21E	Batch	ID: GS	94566	R	tunNo: 94	4566				
Prep Date:	Analysis D	ate: 2/	13/2023	S	SeqNo: 3	418359	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.5	17.32	0	122	70	130			
Surr: BFB	840		693.0		121	37.7	212			

Sample ID: 2302531-001amsc	I SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: FS-21E	Batch	n ID: GS	94566	F	RunNo: 9	4566				
Prep Date:	Analysis D	ate: 2/	13/2023	8	SeqNo: 3	418360	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	3.5	17.32	0	121	70	130	0.395	20	
Surr: BFB	850		693.0		122	37.7	212	0	0	

Qualifiers:

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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302531**

16-Feb-23

Client: ENSOLUM
Project: Chaco 147H

Sample ID: 100ng btex Ics	Sampl	SampType: LCS			tCode: El	tiles				
Client ID: LCSS	Batcl	Batch ID: R94566			RunNo: 9	4566				
Prep Date:	Analysis D	Analysis Date: 2/13/2023			SeqNo: 3	418365	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.87 0.025 1.000			87.1	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.7	2.7 0.10 3.000		0	88.6	80	120			
Surr: 4-Bromofluorobenzene	0.88	0.88 1.000			87.8	70	130			

Sample ID: mb	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batcl	Batch ID: R94566			RunNo: 9	4566				
Prep Date:	Analysis D	Analysis Date: 2/13/2023			SeqNo: 3	418366	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Sample ID: 2302531-002ams	SampT	ype: MS	3	Tes	tCode: El	iles				
Client ID: FS-21W	Batch	n ID: R9	4566	F	RunNo: 94	4566				
Prep Date:	Analysis D	ate: 2/	13/2023	8	SeqNo: 3	419003	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9728	0	84.1	68.8	120			
Toluene	0.84	0.049	0.9728	0.01683	84.7	73.6	124			
Ethylbenzene	0.85	0.049	0.9728	0	87.3	72.7	129			
Xylenes, Total	2.6	0.097	2.918	0.02860	86.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.87		0.9728		89.3	70	130			

Sample ID: 2302531-002amso	d SampT	уре: М S	SD	Tes	tCode: El	tiles				
Client ID: FS-21W	Batcl	h ID: R9	4566	F	RunNo: 9	4566				
Prep Date:	Analysis D	Date: 2/	13/2023	8	SeqNo: 3	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9728	0	83.1	68.8	120	1.12	20	
Toluene	0.83	0.049	0.9728	0.01683	83.7	73.6	124	1.15	20	
Ethylbenzene	0.85	0.049	0.9728	0	86.9	72.7	129	0.540	20	
Xylenes, Total	2.5	2.5 0.097 2.918			86.2	75.7	126	0.591	20	
Surr: 4-Bromofluorobenzene	0.87	0.87 0.9728			89.5	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 4/11/2023 9:02:21 AM

				weosue: www	.nanenvironin	emai.com		
Client Name:	ENSOLUM	I	Work	Order Numb	per: 2302531	_	RcptNo:	1
Received By:	Tracy Cas	sarrubias	2/11/20)23 8:45:00 <i>F</i>	λM			
Completed By:	Tracy Cas	sarrubias	2/11/20)23 8:55:53 <i>F</i>	\M			
Reviewed By:		113/2	_					
Chain of Cust	tody							
1. Is Chain of Cu	stody comp	olete?			Yes 🗹	No 🗌	Not Present	
2. How was the s	sample deliv	vered?			Courier			
Log In 3. Was an attem	pt made to o	cool the sampl	es?		Yes 🗸	No 🗆	na 🗆	
4. Were all samp	les received	l at a temperal	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes 🗹	No 🗌		
6. Sufficient samp	ole volume f	for indicated te	st(s)?		Yes 🔽	No 🗌		
7. Are samples (e	except VOA	and ONG) pro	perly preserv	ed?	Yes 🗹	No 🗌		
8. Was preservat	ive added to	bottles?			Yes 🗌	No 🗹	NA 🗆	/
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sam	ple containe	ers received bi	oken?		Yes	No 🔽	# of preserved	/
11. Does paperwoi (Note discrepa			ı		Yes 🗸	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices co	orrectly iden	tified on Chair	of Custody?		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what	analyses we	ere requested	?		Yes 🗸	No 🗌		
14. Were all holdin (If no, notify cu					Yes 🗹	No 🗆	Checked by: T	m 2/11/2)
Special Handli		ŕ				,		
15. Was client not	ified of all d	iscrepancies w	vith this order	?	Yes 🗌	No 🗌	NA 🗹	
Person I	Notified:			Date:				
By Whor	n:			⁵ Via:	eMail [☐ Phone ☐ Fax	☐ In Person	
Regardir	ng:							
Client In	structions:							
16. Additional rem	narks:							
17. Cooler Inform	nation							
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By	femorious	
1	0.6	Good	Yes	Morty			4	

Chain-of-Custody Record	Turn-Around Time:	(51/21/4)		1				
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198301	Project #:		Tel. 50	Tel. 505-345-3975		Fax 505-345-4107	-4107	
Phone #: 976 - 403 - 6824					Analysis	Rednest	· ·	
email or Fax#: bhub cesslum.com	Project Manager: 5	Brook Herb	€	(† OS	(Juə	1 440	
QA/QC Package:	bhoole	ob Renglam.com	W/O	SMISC	. ₄ 04	edA\tr		
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□ NELAC □ Other	On Ice: 🖎 Yes	No works	OAs	ю 0				
□ EDD (Type)	# of Coolers: \		D(C	158	Ж	∕-in		
	Cooler lemp(including cF):	(a) 9.0:2:0-8.0	910	pλ {	8	iəS)		
Date Time Matrix Sample Name	Container Preservative Type and # Type	HEAL No. 730.2534	X3T8 8:H9T 1808	EDB (8560 GJF,	0728		
13,045 50:1		100	X	-	X			
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Date: Time: Relinquished by:	Received by: Via:	Date Time 2/10/22 1339	Remarks:	rhanson	6)		ersolum. com	
Date: Time: Relinquished by:	Received by: Via:	2/11/21 8:46						
imdus solumes	Dcontracted to other accredited lab	oratories. This serves as notice of th	I is possibility. Any	ub-contracted d	ata wiil be cle	early notated	on the analytical report.	1

if necessary samilies submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any Released to Imaging: 471/2023 9:02:21 AM



APPENDIX D

Photographic Log



Whiptail Midstream, LLC Chaco 147H





Photograph: 1 Date: 2/3/2023

Description: Sample Area for FS-01B

View: South

Photograph: 2 Date: 2/2/2023

Description: Sample Area for FS-02

View: East





Photograph: 3 Date: 2/2/2023

Description: Sample Area for FS-03B

View: East

Photograph: 4 Date: 2/2/2023

Description: Sample Areas for FS-06 and FS-07

View: Southeast



Photographic Log Whiptail Midstream, LLC Chaco 147H





Photograph: 5 Date: 2/2/2023 Description: Sample Areas for FS-08B, FS-09B, FS-10B

View: Northeast

Photograph: 6 Date: 2/3/2023 Description: Sample Areas for FS-11B and FS-12

View: South-Southwest





Photograph: 7 Date: 2/3/2023 Description: Sample Areas for FS-13 and FS-14B

View: South

Photograph: 8 Date: 2/3/2023 Description: Sample Areas for FS-15C

View: North



Whiptail Midstream, LLC Chaco 147H





Photograph: 9 Date: 2/3/2023

Description: Sample Area for FS-16B

View: South-Southwest

Photograph: 10 Date: 2/3/2023

Description: Sample Area for FS-17B and FS-18B

View: North-Northeast





2/7/2023

Date:

Photograph: 11 Date: 2/7/2023

Description: Sample Areas for FS19B

View: South-Southwest

Photograph: 12

Description: Affected area on pad

View: North-Northwest



Whiptail Midstream, LLC Chaco 147H





Photograph: 13

Description: Sample Area 25B

View: North

Date: 2/8/2023

Photograph: 14

Date:

e: 2/8/2023

Description: Sample Area FS-18B and SW07

View: Northeast





Photograph: 15

Date: 2/10/2023

Description: Re-sample area FS-21E and FS-21W

View: North-northwest

Photograph: 16

Date: 2/10/2023

Description: Re-sample area FS-28E and FS-28W

View: North



Whiptail Midstream, LLC Chaco 147H





Photograph: 17 Date: 2/10/2023

Description: Sample Area SW-10

View: East

Photograph: 18 Date: 2/28/2023

Description: Backfilled and recontoured pad

View: North-Northwest





Photograph: 19 Date: 2/28/2023

Description: Backfilled and recontoured slope

View: Northeast

Photograph: 20 Date: 2/28/2023

Description: Recontoured wash

View: Northwest

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

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

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

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

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

CONDITIONS

Action 203488

CONDITIONS

Operator:	OGRID:
Whiptail Midstream LLC	373240
15 West 6th Street	Action Number:
Tulsa, OK 74119	203488
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	4/11/2023