Closure Report

Uncle Chess Battery Lea County, New Mexico Incident #nAPP228848285 L-21-20S-35E

Prepared For:

Matador Production Company One Lincoln Center Dallas, TX 75240

Prepared By:

BDS Enterprises 1705 E. Greene Street Carlsbad, NM 88220

December 15, 2022

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Mike Bratcher **NMOCD** 506 W. Texas Artesia, NM 88210

Subject: Closure Report Uncle Chess Tank Battery Lea County, NM L-21-20S-35E Incident Number: nAPP2228848285

Dear Mr. Bratcher,

Matador Production Company contracted BDS Enterprises to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remedial actions and closure request is presented herein.

Site Information

The Uncle Chess CTB (Battery) is located approximately 46 miles east of Carlsbad New Mexico. The legal description for the site of release is Unit Letter L, Section 21, Township 20 South and Range 35 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.551788 and -103.461211. A Site Location Map is presented in Appendix II.

According to the soil survey provided by the United States Department of Agriculture National resources Conservation Services, the soil in this area is made up of Berino-Cacique loamy fine sands, with 0 to 3 percent slopes, and a depth to restrictive feature of more than 28 inches. The referred soil data is presented in Appendix III. Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of, Holocene to Lower Pleistocene in age, and comprised of sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock. The soil characterization for this site contains a certain level of natural salinity (0.0 to 2.0 mmhos/cm). Drainage courses in this area are typically well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 58 feet below ground surface (bgs). See Appendix III for the referenced groundwater depth. Further research of the Bureau of Land Management Karst data indicates that this site is not situated in a potential Karst area.

Received by OCD: 1/11/2023 9:05:28 AM

Incident Description

On October 15, 2022, during routine site inspections, Matador personnel noticed a spill footprint area of crude from an unknown cause. The impacted area measurement of 75'x25' indicated a volume of approximately 10 bbls (barrels) of crude. Approximately 6 bbls of crude were recovered.

Site Assessment

On October 19, 2022, R&R Environmental personnel mobilized to assess the impacted area. The impacted area was measured and mapped utilizing a Trimble 6000. All soil samples were properly packaged, preserved, and transported to a Hall Laboratory Representative via chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015M/D and EPA Method 8015D), and BTEX (EPA Method 8021B). Sample Locations are shown on the attached figure (Appendix II) and the results of our assessment sampling event are presented on the following data table.

Table I

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzen e mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chloride s mg/kg
NMOCD Table	e 1 Closure Crite NMAC	ria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRO	+ MRO com mg/kg	bined = 100	100 mg/kg	600 mg/kg
	10/19/2022	0-1'	110	4.3	1500	6600	2500	10600	ND
S-1	10/19/2022	2'	0.12	ND	5.4	260	110	375.4	ND
2-1	10/19/2022	3'	ND	ND	ND	64	ND	64	ND
	10/19/2022	4'	0.11	ND	9.3	190	81	280.3	ND
	10/19/2022	0-1'	ND	ND	ND	ND	ND	0	ND
S-2	10/19/2022	2'	ND	ND	ND	ND	ND	0	ND
5-2	10/19/2022	3'	ND	ND	ND	ND	ND	0	ND
	10/19/2022	4'	ND	ND	ND	ND	ND	0	ND
	10/19/2022	0-1'	0.12	ND	ND	240	100	340	ND
S-3	10/19/2022	2'	ND	ND	ND	15	ND	15	ND
	10/19/2022	3'	ND	ND	ND	16	ND	16	ND
	10/19/2022	4'	ND	ND	ND	ND	ND	0	ND

10/24/2022 Soil Sample Laboratory Results

See Appendix V for the complete report of laboratory results.

Scope of Work

On October 26, 2022, based on the laboratory results from the initial site assessment and upon client authorization, BDS environmental personnel and equipment were mobilized to the site in order to commence remediation of the impacted area. A Hydro-vac was dispatched to expose electrical lines in the area requiring excavation. Field titration data was used to guide the clean-up efforts. All soil samples were properly collected and preserved for transport to Hall Laboratories and analyzed for Total Chlorides, BTEX, TPH, in order to confirm that NMOCD clean-up criteria had been achieved in accordance with Table 1 standards. The confirmation results from the laboratory are tabulated below. Confirmation sample locations are illustrated in Appendix II.

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Table II

								Total	
Complex ID	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	TPH	Chlorides
Sample ID	Date	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NIVIOCD Table	e 1 Closure Crite NMAC	ria 19.15.29	50 mg/kg	10 mg/kg	GRO + DRC) + MRO com mg/kg	bined = 100	100 mg/kg	600 mg/kg
	11/28/2022	5'	ND	ND	ND	38	ND	38	ND
S-1A	11/28/2022	7'	ND	ND	ND	ND	ND	50	ND
S-2A	11/28/2022	1'	ND	ND	ND	ND	ND /		ND
S-3A	11/28/2022	1.5'	ND	ND	ND	ND	ND /	-	
S-4A	11/29/2022	1.5	ND	ND	ND	ND	ND	-	ND
S-5A	11/28/2022	1.5	ND	ND	ND	ND	ND	-	ND
S-6A	11/28/2022	1'	ND	ND	ND	ND	ND	-	ND
3-0A	11/28/2022	1 1'	ND	ND	ND	2800	1600	4400	ND ND
S-7A	12/8/2022	1.5'	ND	ND	27.8	ND	ND	27.8	55.6
S-8A	11/29/2022	1.5'	ND	ND	ND	22	ND	27.8	ND
S-9A	11/23/2022	1.5	ND	ND	ND	ND	ND	22	
S-10A	11/28/2022	1	ND	ND	ND	ND	ND	-	ND
S-11A	11/28/2022	1.5'	ND	ND	ND	ND	ND	-	ND
S-11A S-12A		1.5						-	ND
S-12A S-13A	11/29/2022	1.5	ND	ND	ND	ND	ND	-	ND
S-13A S-13B	11/28/2022 12/13/2022	2'	ND ND	ND ND	ND 39	180 17.9	110 15.3	290 72.2	ND
S-14A	11/28/2022	Z 7'	ND	ND	ND	11.9	81	191	1.37 ND
S-14A S-14B	12/13/2022	7.5'	ND	ND	38.2	ND	15	53.2	ND ND
S-140	11/28/2022	1.5'	ND	ND	ND	ND	ND		ND
S-16A	11/29/2022	2'	ND	ND	ND	21	ND	21	ND
S-17A		2'	ND	ND	ND	ND			
S-17A	11/29/2022	1.5'	ND	ND	ND	ND	ND		ND
S-19A	11/28/2022 11/28/2022	1.5'	ND	ND	ND	65	ND 58	123	ND
S-19A S-19B	12/13/2022	2'	ND	ND	25.5	17	ND	42.5	ND 6.17
S-20A	11/28/2022	1.5'	ND	ND	ND	ND	ND	- 42.5	ND
SW-1	11/28/2022	2'	ND	ND	ND	ND	ND	-	ND
SW-2	11/28/2022	1.5'	ND	ND	ND	ND	ND		ND
SW-3	11/28/2022	1.5'	ND	ND	ND	61	ND	61	ND
SW-3	11/28/2022	1'	ND	ND	ND	ND	ND	01	ND
SW-4	11/28/2022	1.5'	ND	ND	ND	1200	500	1700	ND
SW-5A*	12/13/2022	1.5'	ND	ND	48.4	17.1	15.2	80.7	3.03
SW-6	11/28/2022	1'	ND	ND	ND	ND	ND ND	00.7	
SW-7	11/28/2022	1.5'	ND	ND	ND	ND	ND	-	ND
SW-8	11/28/2022	2'	ND	ND	ND	53	ND	53	ND
BG-1	11/28/2022	0'	ND	ND	ND	ND	ND		ND
BG-1 BG-2	11/28/2022	0'	ND	ND	ND	ND	ND	-	
BG-2 BG-3	11/28/2022	0'	ND	ND	ND	ND	ND		ND ND
BG-3 BG-4	11/28/2022	0'	ND	ND	ND	ND	ND	-	
	t Detected SW						and the second se	-	ND

12/13/2022 Confirmation Sample Laboratory Results

Appendix V for the complete report of laboratory results

Remedial Actions

- The spill footprint of the impacted pad area was excavated to a depth of 1 to 7 feet (source) bgs, and to the horizontal extent that all surface staining was removed. Laboratory analysis confirms that NMOCD remediation guidelines for soil characterization were achieved.
- Background samples were grabbed in accordance with NMOCD guidelines to confirm horizontal remediation efforts were achieved.
- The excavated pad area was backfilled with clean caliche, from JR 360 pit, restored to grade and compacted.
- All contaminated soil was transported to R360 Environmental Solutions, a NMOCD approved disposal facility.
- A Liner inspection was completed with Matador Representatives present and no impediments to the liner were observed. See Appendix I

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Based on this site characterization, remedial actions completed, and analytical results we request that no further actions be required, and that closure with regard to the attached incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575-441-0980.

Respectfully submitted,

James W. Carnes Environmental Scientist Rebecca S. Pons Project Manager

Attachments:Appendix INMOCDAppendix IISite MapsAppendix IIIGroundwater Data, Soil Survey, & Wetlands MapAppendix IVPhotographic DocumentationAppendix VLaboratory DataAppendix VISeed Tag

Received by OCD: 1/11/2023 9:05:28 AM





Appendix I NMOCD

C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP228848285
District RP	
Facility ID	L-21-20S-35E ON OE
Application ID	

Release Notification

Responsible Party

Responsible Party: Matador Production Company	OGRID: 228937	
Contact Name: Arsenio T. Jones	Contact Telephone: 575-361-4333	
Contact email: arsenio.jones@matadorresources.com	Incident # (assigned by OCD): nAPP2228848285	
Contact mailing address: One Lincoln Centre Dallas, TX 75240		

Location of Release Source

Latitude	32 551788	Longitude -103 461	211 (location of source)
Dunnuuo	52.551100	Longhade 105.101	Li location of Source)

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Uncle Ches Tank Battery	Site Type: Production Battery
Date Release Discovered: 10/15/22	API# (if applicable)L-21-20S-35E

Unit Letter	Section	Township	Range	County
L	21	20S	35E	Lea

Surface Owner: State Federal Tribal Private (Name: ____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)10	Volume Recovered (bbls)6
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ⊠ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Unknown-Environmental Company will assess,

Form C-141

Form Page 2 o 6 o 8 b d

State of New Mexico
Oil Conservation Division

Incident ID	nAPP228848285
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The Release was > 50bbl				
🗌 Yes 🖾 No					
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was provided to the NMOCD on 10/15/22 by Arsenio Jones of Matador (online).					
-					

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: <u>Arsenio T. Jones</u> Title: <u>Regulatory, Env</u>	vironmental and Safety Specialist
Signature:	Date: <u>10/15/22</u>
email:arsenio.jones@matadorresources.com	Telephone:575-361-4333
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	nAPP228848285
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Facility ID	L-21_20S-35E ON OE
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?	$\frac{58}{bcs}$ (ft
Did this release impact groundwater or surface water?	bgs)
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No ☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	TYes 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
	U Ves X No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps

1/11/2023 9:05:28

Received by OCD:

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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Form C-141 Page 4	State of New Me Oil Conservation D		Incident ID District RP	nAPP228848285
			Facility ID	L-21 20S-35E ON OE
			Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance o and/or regulations. <u>Printed Name: Arsen</u> Signature: email: _arsenio.jones@m	rmation given above is true and comp required to report and/or file certain n ment. The acceptance of a C-141 report ate and remediate contamination that f a C-141 report does not relieve the o	elease notifications and perfor ort by the OCD does not reliev pose a threat to groundwater, s operator of responsibility for co <u>Title: Regulatory En</u> Date: <u>11/2</u>	m corrective actions for r e the operator of liability urface water, human hea mpliance with any other nvironmental and Safet	releases which may endanger should their operations have lth or the environment. In federal, state, or local laws
OCD Only Received by: Jocel	yn Harimon	Date:	1/11/2023	

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Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	nAPP228848285
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

Extents of contamination must be fully delineated.

Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C1141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Regulatory Environmental and Safety Specialist Arsenio Jones Title: Printed Name: Signature: Date: 11/29/2022 email: arsenio.jones@matadorresources.com Telephone: 575-361-4333 **OCD Only** 1/11/2023 Jocelyn Harimon Date: Received by:

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State of New Mexico **Oil Conservation Division**

Incident ID	nAPP228848285
District RP	
Facility ID	L-21_20S-35E ON OE
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

Printed Name:	Arsenio Jones	Title: <u>Regulatory</u>	Environmental and Safety Specialist
Signature:	Kon	Date:	12/27/2022
email: <u>arsenio.jor</u>	nes@matadorresources.com		Telephone: <u>575-361-4333</u>
OCD Only			
Received by:	Jocelyn Harimon		Date:1/11/2023
remediate contamin		ter, surface water, hu	ty should their operations have failed to adequately investigate and uman health, or the environment nor does not relieve the responsible tions.
Closure Approved b	oy:	bui	Date: 02/01/2023
Printed Name:	Jennifer Nobui		Title: Environmental Specialist A

James Carnes

From:James CarnesSent:Monday, November 21, 2022 3:40 PMTo:enviro.ocd@state.nm.usSubject:Fwd: Incident IDNAPP2228848285

Get Outlook for iOS

From: Rebecca Green <rebecca.green59@yahoo.com> Sent: Monday, November 21, 2022 3:36 PM To: OCDOnline@state.nm.us <OCDOnline@state.nm.us> Cc: Arseno Jones <arsenio.jones@matadorresources.com> Subject: Incident IDNAPP2228848285

To whom it may concern,

R & R environmental will be on location Tuesday, November 22 at 3:30 PM for the confirmation sampling event at the Uncle Chess tank battery. Please feel free to call me with any questions. Respectfully,

Sent from my iPhone





Appendix II

Site Maps

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Received by OCD: 1/11/2023 9:05:28 AM



Received by OCD: 1/11/2023 9:05:28 AM









Appendix III

Groundwater Data, Soil Survey, & Wetlands Map

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	N	/at					00	v			e Engine pth to		er	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphar C=the file closed)	ned, e is	n				V 2=NE est to la	3=SW 4=5 gest) (SE) NAD83 U	TM in n	neters)	(In feet))	
		POD Sub-		000	5								W	ater
POD Number	Code	basin	County		-	Tws	Rng	Х	i E	Y	DistanceDept	hWellDepthV	Vater Co	lumn
L 15099 POD1		L	LE	3 1 4	4 26	20S	35E	647650	36016	526 🌍	3093	110	58	52
										Avera	ge Depth to Water:		58 fee	t
											Minimum Dept	h:	58 fee	t
											Maximum Depth	1:	58 fee	t
Record Count: 1					nijer on onijerjanj									r fe je di se je je
UTMNAD83 Radiu	s Search (in	meters)	<u>):</u>											
Easting (X): 644	738.3		North	ing (Y):	3602	2671.24	1		Radius:	5000				

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.

10/18/22 3:40 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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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 UT	(NAD83 UTM in meters)		
Well Tag POI) Number	••)16 Q4				X	Y		
	5099 POD1	3	1 4	26	20S	35E	647650	3601626 🌍		
Driller License:	1800	Driller	Compa	ny:	TA	LON/LP	Έ			
Driller Name:	02/22/21									
Drill Start Date:	02/22/2021	Drill Fi	nish Da	te:			Plu	g Date:	02/22/2021	
Log File Date:	03/11/2021	PCW R	cv Date	:			Sou	irce:	Shallow	
Pump Type:		Pipe Dis	scharge	Size	:		Est	imated Yield:	0 GPM	
Casing Size:	2.00	Depth V	Vell:		1	0 feet	Dep	oth Water:	58 feet	
Wate	er Bearing Stratifica	tions:	То	рB	ottom	Descr	iption			
			4	8	60	Sands	tone/Gravel/	Conglomerate		
			6	0	62	Sands	tone/Gravel/	Conglomerate		
			6	2	100	Sands	tone/Gravel/	Conglomerate		
			10	0	110	Sands	tone/Gravel/0	Conglomerate		
X	Casing Perfora	ations:	To	рВ	ottom					
			10	0	110					

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.

10/18/22 3:41 PM

POINT OF DIVERSION SUMMARY



Custom Soil Resource Report

				MAP INFORMATION
Area of Ir	Area of Interest (AOI)	at	Spoil Area	The soil survevs that comprise voirr AOI were manned at
	Area of Interest (AOI)	1	Stony Spot	1:20,000.
Soils		7		
	Soil Map Unit Polygons	8	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
(Soil Map Unit Lines	Ş	Wet Spot	
	Soil Map Unit Points	Ø	Other	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of manning and accuracy of coil
Croot	Sandial Daint Factures	ţ	Special Line Features	line placement. The maps do not show the small areas of
(0)	Blowout	Water Features	atures	contrasting soils that could have been shown at a more detailed
) [2	Borrow Pit	(Streams and Canals	
2		Transportation	tation	
Ж	Clay Spot	1	Rails	Please rely on the bar scale on each map sheet for map measurements.
\$	Closed Depression	2	Interstate Highways	
*	Gravel Pit	2	US Routes	Source of Map: Natural Resources Conservation Service
**	Gravelly Spot	1	Maior Roads	Coordinate System: Web Mercator (EPSG:3857)
0	Landfill		l ocal Roads	Mana from the Mak Call Current and Land 1
V	Lava Flow	Backaround		webs notil the veb soil survey are based on the web Mercator projection, which preserves direction and shape but distorts
- Aller Aller	Marsh or swamp		Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection should be used if more
¢	Mine or Quarry		2	accurate calculations of distance or area are required.
0	Miscellaneous Water			This product is deperated from the LISDA-NBCS certified data as
0	Perennial Water			of the version date(s) listed below.
>	Rock Outcrop			Soil Survey Area: Tea County New Mexico
+	Saline Spot			Survey Area Data: Version 19, Sep 8, 2022
° ° °	Sandy Spot			Soil man units are labeled (as snare allows) for man scalas
Û	Severely Eroded Spot			1:50,000 or larger.
0	Sinkhole			Date(s) aerial imanes were nhotocronhod. Ech 7 2020 Manu
A	Slide or Slip			Ducky acriation and see provographed. Teb 1, 2020-19189
Ø	Sodic Spot			The orthonhoto or other base man on which the soil lines were
				compiled and digitized probably differs from the background improved on the background
				shifting of map unit boundaries may be evident.

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Lea County, New Mexico

BE—Berino-Cacique loamy fine sands association

Map Unit Setting

National map unit symbol: dmpd Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 13 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 50 percent Cacique and similar soils: 40 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock over calcareous sandy alluvium derived from sedimentary rock

Typical profile

A - 0 to 6 inches: loamy fine sand Btk - 6 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Description of Cacique

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand Bt - 12 to 28 inches: sandy clay loam Bkm - 28 to 38 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply. 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R070BD004NM - Sandy Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 6 percent Ecological site: R077CY028TX - Limy Upland 16-21" PZ Hydric soil rating: No

Palomas

Percent of map unit: 4 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: A

Custom Soil Resource Report

Ecological site: R070BD003NM - Loamy Sand *Hydric soil rating:* No

Description of Maljamar

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent Ecological site: R070BC022NM - Sandhills Hydric soil rating: No

National Flood Hazard Layer FIRMette Received by OCD: 1/11/2023 9:05:28 AM









Released to Imaging: 2/1/2023 11:04:50 AM

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Appendix IV

Photographic Documentation



Matador Resources Uncle Ches TB





Matador Resources Uncle Ches TB





Appendix V

Laboratory Data

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 31, 2022

Renne Madrid R & R Environmental 1505 W. Bullock Ave Artesia, NM 88210 TEL: (575) 616-9340 FAX:

RE: Uncle Ches TB

OrderNo.: 2210A35

Released to Imaging: 2/1/2023 11:04:50 AM

Dear Renne Madrid:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/20/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 2210A35 Date Reported: 10/31/2022

Analyst: JMT

Analyst: JME

Analyst: NSB

Analyst: NSB

71020

71003

71003

71003

71003

10/25/2022 1:47:34 PM 71047

10/25/2022 8:14:17 PM 71020

10/25/2022 8:14:17 PM 71020

10/25/2022 8:09:35 PM 71003

10/25/2022 8:14:17 PM

10/25/2022 8:09:35 PM

10/25/2022 8:09:35 PM

10/26/2022 8:32:47 PM

10/26/2022 8:32:47 PM

10/26/2022 8:32:47 PM 71003

10/26/2022 8:32:47 PM 71003

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

EPA METHOD 300.0: ANIONS

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analyses		Result	RL Qual Units	DF Date Analyzed	Batch
Lab ID:	2210A35-001	Matrix: SOIL	Received Dat	e: 10/20/2022 7:55:00 AM	N
Project:	Uncle Ches TB		Collection Dat	e: 10/19/2022 9:10:00 AM	Ν
CLIENT:	R & R Environmental		Client Sample I	D: S-1 0-1'	

60

140

460

25

0.12

2.5

2.5

5.0

70-130

S

S

S

21-129

37.7-212

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

20

10

10

10

5

5

5

50

50

50

50

ND

6600

2500

1500

1420

4.3

100

91

110

131

0

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information	Refer to the (C Summary repo	rt and sample log	in checklist for flagged	OC data and	preservation information
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Qualifiers:	
Quanner 3.	

*

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

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Page 1 of 19
10/26/2022 8:56:19 PM 71003

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental		Cl	ient Sample II	D: S-	1 2'	
Project: Uncle Ches TB		(Collection Dat	e: 10	/19/2022 9:15:00 AM	
Lab ID: 2210A35-002	Matrix: SOIL		Received Dat	e: 10	/20/2022 7:55:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	59	mg/Kg	20	10/25/2022 1:59:58 PM	71047
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ТОМ
Diesel Range Organics (DRO)	260	15	mg/Kg	1	10/27/2022 2:45:57 AM	71020
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	10/27/2022 2:45:57 AM	71020
Surr: DNOP	105	21-129	%Rec	1	10/27/2022 2:45:57 AM	71020
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	5.4	4.9	mg/Kg	1	10/26/2022 8:56:19 PM	71003
Surr: BFB	133	37.7-212	%Rec	1	10/26/2022 8:56:19 PM	71003
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/26/2022 8:56:19 PM	71003
Toluene	ND	0.049	mg/Kg	1	10/26/2022 8:56:19 PM	71003
Ethylbenzene	0.060	0.049	mg/Kg	1	10/26/2022 8:56:19 PM	71003
Xylenes, Total	0.12	0.098	mg/Kg	1	10/26/2022 8:56:19 PM	71003

102

70-130

%Rec

1

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

Qualifiers:

Received by OCD: 1/11/2023 9:05:28 AM

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

*

Surr: 4-Bromofluorobenzene

- Н 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.
- Analyte detected in the associated Method Blank В Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL **Reporting Limit**

Page 2 of 19

Hall Environmental Analysis Laboratory, Inc.

						and the second	
CLIENT: Project: Lab ID:	R & R Environmental Uncle Ches TB 2210A35-003	Matrix: SOIL	(e: 10	1 3' /19/2022 9:20:00 AM /20/2022 7:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	10/25/2022 2:12:22 PM	71047
EPA MET	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	64	14	mg/Kg	1	10/26/2022 7:51:41 AM	71020
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	10/26/2022 7:51:41 AM	71020
Surr: E	DNOP	91.3	21-129	%Rec	1	10/26/2022 7:51:41 AM	71020
EPA MET	THOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Surr: E	3FB	113	37.7-212	%Rec	1	10/25/2022 8:56:29 PM	71003

Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Surr: BFB	113	37.7-212	%Rec	1	10/25/2022 8:56:29 PM	71003
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Toluene	ND	0.049	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 8:56:29 PM	71003
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	10/25/2022 8:56:29 PM	71003

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL Reporting Limit

Page 3 of 19

Analytical Report Lab Order 2210A35

Date Reported: 10/31/2022

Analyst: TOM

Analyst: NSB

Analyst: NSB

71003

10/27/2022 3:09:48 AM 71020

10/27/2022 3:09:48 AM 71020

10/27/2022 3:09:48 AM 71020

10/25/2022 9:19:58 PM 71003

10/25/2022 9:19:58 PM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Diesel Range Organics (DRO)

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

CLIENT:	R & R Environmental		Client	Sample II	D: S-J	. 4'		
Project:	Uncle Ches TB		Collection Date: 10/19/2022 9:25:00 AM					
Lab ID:	2210A35-004	Matrix: SOIL	Rec	eived Dat	e: 10/	20/2022 7:55:00 AM		
Analyses	5	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
	THOD 300.0: ANIONS	Result	RL Qu	al Units	DF	Date Analyzed Analys		

190

81

104

9.3

158

ND

ND

ND

0.11

107

13

45

4.9

21-129

37.7-212

0.024

0.049

0.049

0.098

70-130

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

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

*

- Н 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 В Above Quantitation Range/Estimated Value
- Ε Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit
- Page 4 of 19

Received by OCD: 1/11/2023 9:05:28 AM

Analyst: JMT

Analyst: DGH

Analyst: NSB

Analyst: NSB

71003

71003

71003

10/25/2022 2:37:10 PM 71047

10/26/2022 8:05:15 AM 71020

10/26/2022 8:05:15 AM 71020

10/26/2022 8:05:15 AM 71020

10/25/2022 9:43:28 PM 71003

10/25/2022 9:43:28 PM 71003

10/25/2022 9:43:28 PM 71003

10/25/2022 9:43:28 PM 71003

10/25/2022 9:43:28 PM

10/25/2022 9:43:28 PM

10/25/2022 9:43:28 PM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Analyses		Res	ult	RL	Qual	Units	DF	Date Analyzed	Batch
Lab ID:	2210A35-005	Matrix: S	OIL		Receiv	ed Dat	t e: 10/	/20/2022 7:55:00 AM	
Project:	Uncle Ches TB			(Collect	ion Dat	te: 10/	/19/2022 9:35:00 AM	
CLIENT:	R & R Environmental	Client Sample ID: S-2 0-1'							

60

13

44

4.9

21-129

37.7-212

0.024

0.049

0.049

0.098

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

20

1

1

1

1

1

1

1

1

1

1

ND

ND

ND

89.2

ND

96.5

ND

ND

ND

ND

99.6

D 1 000				
Refer to the QC Summary	report and sample logi	n checklist for flagged	OC data and	preservation information

Received by OCD: 1/11/2023 9:05:28 AM

- * 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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в Е
- Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL **Reporting Limit**

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Page 5 of 19

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 300.0: ANIONS

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental Client Sample ID: S-2 2' Collection Date: 10/19/2022 9:40:00 AM Received Date: 10/20/2022 7:55:00 AM Matrix: SOIL Docult DI Qual Unite DE Data Analyzad Patah

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	ND	61	mg/Kg	20	10/25/2022 2:49:34 PM	71047
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/26/2022 8:18:36 AM	71020
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/26/2022 8:18:36 AM	71020
Surr: DNOP	89.4	21-129	%Rec	1	10/26/2022 8:18:36 AM	71020
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 10:06:51 PM	71003
Surr: BFB	94.8	37.7-212	%Rec	1	10/25/2022 10:06:51 PM	71003
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 10:06:51 PM	71003
Toluene	ND	0.050	mg/Kg	1	10/25/2022 10:06:51 PM	71003
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 10:06:51 PM	71003
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 10:06:51 PM	71003
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	- 1	10/25/2022 10:06:51 PM	71003

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

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

Р

Project:

Lab ID:

Uncle Ches TB 2210A35-006

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Cl	ient Sample l	D : S-	2 3'	
Project:	Uncle Ches TB		(Collection Da	te: 10)/19/2022 9:45:00 AM	
Lab ID:	2210A35-007	Matrix: SOII	L	Received Da	te: 10	0/20/2022 7:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	10/25/2022 3:26:47 PM	71047
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	ND	13	mg/Kg	1	10/26/2022 10:54:29 AM	1 71020
Motor Oil	Range Organics (MRO)	ND	43	mg/Kg	1	10/26/2022 10:54:29 AN	71020
Surr: D	NOP	91.9	21-129	%Rec	1	10/26/2022 10:54:29 AN	71020
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 10:30:12 PM	71003
Surr: B	FB	97.4	37.7-212	%Rec	1	10/25/2022 10:30:12 PM	71003
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	10/25/2022 10:30:12 PM	71003
Toluene		ND	0.049	mg/Kg	1	10/25/2022 10:30:12 PM	71003
Ethylbenz	ene	ND	0.049	mg/Kg	1	10/25/2022 10:30:12 PM	71003
Xylenes, 7	Fotal	ND	0.098	mg/Kg	1	10/25/2022 10:30:12 PM	71003

104

70-130

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- Н 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. S

- Analyte detected in the associated Method Blank в Ε Above Quantitation Range/Estimated Value
- J

%Rec

1

10/25/2022 10:30:12 PM 71003

- Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL **Reporting Limit**

Analytical Report
Lab Order 2210A35
Date Reported: 10/31/2022

10/25/2022 10:53:49 PM 71003

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Clien	t Sample II): S-2	2 4'	
Project:	Uncle Ches TB		Col	lection Date	e: 10	/19/2022 9:50:00 AM	
Lab ID:	2210A35-008	Matrix: SOIL	Re	ceived Date	e: 10	/20/2022 7:55:00 AM	
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst:	JMT
Chloride		ND	60	mg/Kg	20	10/25/2022 3:39:11 PM	71047
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	DGH
Diesel Ra	ange Organics (DRO)	ND	14	mg/Kg	1	10/26/2022 11:08:21 AM	71020
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	10/26/2022 11:08:21 AM	71020
Surr: D	NOP	96.8	21-129	%Rec	1	10/26/2022 11:08:21 AM	71020
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst:	NSB

ND

98.4

ND

ND

ND

ND

104

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

* Value exceeds Maximum Contaminant Level. Qualifiers:

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit POL

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value E J

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

4.9

37.7-212

0.025

0.049

0.049

0.099

70-130

- Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL. **Reporting Limit**

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report
Lab Order 2210A35
Date Reported: 10/31/2022

10/25/2022 11:17:22 PM 71003

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		CI	ient Sample II	D: S-	3 0-1'	
Project:	Uncle Ches TB		(Collection Dat	e: 10	/19/2022 10:00:00 AM	1
Lab ID:	2210A35-009	Matrix: SOII		Received Dat	e: 10	/20/2022 7:55:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT
Chloride		ND	60	mg/Kg	20	10/25/2022 3:51:36 PM	71047
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: том
Diesel Ra	nge Organics (DRO)	240	14	mg/Kg	1	10/27/2022 3:33:37 AM	71020
Motor Oil	Range Organics (MRO)	100	47	mg/Kg	1	10/27/2022 3:33:37 AM	71020
Surr: D	NOP	105	21-129	%Rec	1	10/27/2022 3:33:37 AM	71020
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline I	Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 11:17:22 PM	71003

128

ND

ND

0.059

0.12

105

37.7-212

0.024

0.048

0.048

0.097

70-130

1

1

1

1

1

1

%Rec

mg/Kg

mg/Kg

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

*

- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value Analyte detected below quantitation limits J
 - Sample pH Not In Range
- P RL Reporting Limit

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Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

10/25/2022 11:40:41 PM 71003

10/25/2022 11:40:41 PM 71003

10/25/2022 11:40:41 PM 71003

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Cl	ient Sample I	D: S-	3 2'					
Project:	Uncle Ches TB	Collection Date: 10/19/2022 10:05:00 AM									
Lab ID:	2210A35-010	Matrix: SOIL Received Date: 10/20/2022 7:55:00 Al									
Analyses		Result	RL	Qual Units	DF	Date Analyzed Batch					
EPA MET	HOD 300.0: ANIONS					Analyst: JTT					
Chloride		ND	60	mg/Kg	20	10/26/2022 10:12:32 AM 71072					
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH					
Diesel Range Organics (DRO)		15	15	mg/Kg	1	10/26/2022 11:22:19 AM 71020					
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	10/26/2022 11:22:19 AM 71020					
Surr: D	NOP	101	21-129	%Rec	1	10/26/2022 11:22:19 AM 71020					
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst: NSB					
Gasoline F	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 11:40:41 PM 71003					
Surr: BFB		101	37.7-212	%Rec	1	10/25/2022 11:40:41 PM 71003					
EPA METI	HOD 8021B: VOLATILES					Analyst: NSB					
Benzene		ND	0.025	mg/Kg	1	10/25/2022 11:40:41 PM 71003					
Toluene		ND	0.049	mg/Kg	1	10/25/2022 11:40:41 PM 71003					

ND

ND

106

0.049

0.098

70-130

mg/Kg

mg/Kg

%Rec

1

1

1

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

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 Holding times for preparation or analysis exceeded
 NO Not Detected at the Reporting Limit
 - 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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Released to Imaging: 2/1/2023 11:04:50 AM

Received by OCD: 1/11/2023 9:05:28 AM

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CLIENT: R & R Environmental		Cl	ient Sample II): S-	3 3'					
Project: Uncle Ches TB	Collection Date: 10/19/2022 10:10:00 AM									
Lab ID: 2210A35-011	Matrix: SOIL Received Date: 10/20/2022 7:55:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JTT				
Chloride	ND	60	mg/Kg	20	10/26/2022 10:24:56 AM	1 71072				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH				
Diesel Range Organics (DRO)	16	14	mg/Kg	1	10/26/2022 2:58:34 AM	71043				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/26/2022 2:58:34 AM	71043				
Surr: DNOP	92.3	2 1- 129	%Rec	1	10/26/2022 2:58:34 AM	71043				
EPA METHOD 8015D: GASOLINE RANGE	Ξ				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 12:06:16 AM	71004				
Surr: BFB	92.7	37.7-212	%Rec	1	10/25/2022 12:06:16 AM	71004				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.025	mg/Kg	1	10/25/2022 12:06:16 AM	71004				
Toluene	ND	0.050	mg/Kg	1	10/25/2022 12:06:16 AM	71004				
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 12:06:16 AM	71004				
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 12:06:16 AM	71004				
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	10/25/2022 12:06:16 AM	71004				

Hall Environmental Analysis Laboratory, Inc.

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
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank Е Above Quantitation Range/Estimated Value
- J
 - Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

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Received by OCD: 1/11/2023 9:05:28 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental Client Sample ID: S-3 4' Collection Date: 10/19/2022 10:15:00 AM Matrix: SOIL Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS	PA METHOD 300.0: ANIONS Analyst: J								
Chloride	ND	60	mg/Kg	20	10/26/2022 10:37:21 AM	1 71072			
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/26/2022 3:11:56 AM	71043			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/26/2022 3:11:56 AM	71043			
Surr: DNOP	91.1	21-129	%Rec	1	10/26/2022 3:11:56 AM	71043			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 1:16:56 AM	71004			
Surr: BFB	96.0	37.7-212	%Rec	1	10/25/2022 1:16:56 AM	71004			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.025	mg/Kg	1	10/25/2022 1:16:56 AM	71004			
Toluene	ND	0.050	mg/Kg	1	10/25/2022 1:16:56 AM	71004			
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 1:16:56 AM	71004			
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 1:16:56 AM	71004			
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	10/25/2022 1:16:56 AM	71004			

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

Qualifiers: * Value exceeds Maximum Contaminant Level. в D Sample Diluted Due to Matrix Е

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL **Reporting Limit**

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Project:

Lab ID:

Uncle Ches TB

2210A35-012

QC SUMMARY REPOI	RT
Hall Environmental Analysis	s Laboratory, Inc.

WO#: 2210A35

31-Oct-22

Client:	R & R E	nvironmen	ıtal								
Project:	Uncle Cl	nes TB									
Sample ID:	MB-71047	MB-71047 SampType: mblk				TestCode: EPA Method 300.0: Anions					
Client ID:	PBS	Batc	h ID: 71	047	I	RunNo: 9	2054				
Prep Date:	10/25/2022	Analysis [Date: 10)/25/2022	3	SeqNo: 3	304316	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71047	SampT	Гуре: Ics		Tes	stCode: EF	PA Method	300.0: Anions	5		
Client ID:	LCSS	Batcl	h ID: 71(047	F	RunNo: 92	2054				
Prep Date:	10/25/2022	Analysis E	Date: 10	/25/2022	\$	SeqNo: 3	304317	Units: mg/K	g		4
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	99.4	90	110			
Sample ID:	MB-71072	SampT	ype: mb	lk	Tes	tCode: EF	PA Method	300.0: Anions	;		
Client ID:	PBS	Batch	n ID: 710)72	F	RunNo: 92	2082				
Prep Date:	10/26/2022	Analysis D)ate: 10	/26/2022	5	SeqNo: 33	306560	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71072	SampT	ype: Ics		Tes	tCode: EF	A Method	300.0: Anions			1
Client ID:	LCSS	Batch	n ID: 710	72	F	RunNo: 92	2082				
Prep Date:	10/26/2022	Analysis D	ate: 10	/26/2022	5	SeqNo: 33	06561	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.1	90	110			

Qualifiers: *

Value exceeds Maximum Contaminant Level. D

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit S

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

Analyte detected in the associated Method Blank В

E Above Quantitation Range/Estimated Value

- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- Reporting Limit RL

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2210A35

31-Oct-22

Client: R&R	Environmental							
Project: Uncle (Ches TB							
Sample ID: MD 74042		TostCodo: EBA Method 9045M/D: Discol Paper Organics						
Sample ID: MB-71043	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 92056						
Client ID: PBS	Batch ID: 71043							
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3303572 Units: mg/Kg						
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND 15 ND 50							
Surr: DNOP	7.9 10.00	79.0 21 129						
Sample ID: LCS-71043	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71043	RunNo: 92056						
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3303573 Units: mg/Kg						
Analyte	Result PQL SPK value							
Diesel Range Organics (DRO)	48 15 50.00	0 95.5 64.4 127						
Surr: DNOP	3.5 5.000	70.8 21 129						
Sample ID: MB-71054	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 71054	RunNo: 92087						
Prep Date: 10/25/2022	Analysis Date: 10/26/2022	SeqNo: 3305152 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	11 10.00	111 21 129						
Sample ID: LCS-71054	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71054	RunNo: 92087						
Prep Date: 10/25/2022	Analysis Date: 10/26/2022	SeqNo: 3305153 Units: %Rec						
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	5.1 5.000	103 21 129						
Sample ID: MB-71020	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 71020	RunNo: 92056						
Prep Date: 10/24/2022	Analysis Date: 10/26/2022	SeqNo: 3307150 Units: mg/Kg						
Analyte Diesel Range Organics (DRO)	Result PQL SPK value ND 15	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	8.8 10.00	88.3 21 129						
Cample ID: 1 00 74000	SomeTupo: 100	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Sample ID: LCS-71020	SampType: LCS							
Client ID: LCSS	Batch ID: 71020	RunNo: 92056						
Prep Date: 10/24/2022	Analysis Date: 10/26/2022	SeqNo: 3307151 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						

н

ND

PQL

Received by OCD: 1/11/2023 9:05:28 AM

Value exceeds Maximum Contaminant Level. D

Not Detected at the Reporting Limit Practical Quanitative Limit

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded В Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

- E J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

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

-

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Ches TB

Sample ID: LCS-71020	SampType: LCS			Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 71020			RunNo: 92056							
Prep Date: 10/24/2022	Analysis Date: 10/26/2022			5	SeqNo: 33	807151	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	15	50.00	0	103	64.4	127				
Surr: DNOP	4.3		5.000		85.8	21	129				

S

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
- PQL Practical Quanitative Limit
 - % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- E
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2210A35 31-Oct-22

=

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#:

2210A35 31-Oct-22

Client:R & R EProject:Uncle C	invironmental hes TB										
Sample ID: mb-71003	p-71003 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range										
Client ID: PBS	Batch ID	: 71003		RunNo: 9	2027						
Prep Date: 10/23/2022	Analysis Date	e: 10/24/2022		SeqNo: 3	302540	Units: mg/l	K g				
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0 1000		100	37.7	212					
Sample ID: Ics-71003	SampType	: LCS	Те	stCode: E	PA Method	8015D: Gaso	line Range)			
Client ID: LCSS	Batch ID	: 71003		RunNo: 9	2027						
Prep Date: 10/23/2022	Analysis Date	: 10/24/2022		SeqNo: 3	302541	Units: mg/k	٢g				
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	28 2000	5.0 25.00 1000	0	112 204	72.3 37.7	137 212					
Sample ID: mb-71004	ample ID: mb-71004 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range										
Client ID: PBS	Batch ID:	71004		RunNo: 9	2027						
Prep Date: 10/23/2022	Analysis Date:	10/24/2022		SeqNo: 3	302554	Units: mg/k	٤g				
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 970	5.0 1000		97.4	37.7	212					
Sample ID: Ics-71004	SampType	LCS	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	1			
Client ID: LCSS	Batch ID:	71004	RunNo: 92027								
Prep Date: 10/23/2022	Analysis Date:	10/24/2022	SeqNo: 3302555 Units: mg/Kg								
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)		5.0 25.00	0	111	72.3	137					
Surr: BFB	2100	1000		211	37.7	212					
Sample ID: 2210a35-011ams	SampType:	MS	Tes	tCode: EF	PA Method	8015D: Gasol	line Range				
Client ID: S-3 3'	Batch ID:	71004	F	RunNo: 92	2027						
Prep Date: 10/23/2022	Analysis Date:	10/25/2022	5	SeqNo: 33	02557	Units: mg/K	g				
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	25 2000	5.0 24.78 991.1	0	100 199	70 37.7	130 212					
Sample ID: 2210a35-011amsd	SampType:	MSD	Tes	tCode: EP	A Method	8015D: Gasol	ine Range				
Client ID: S-3 3'	Batch ID:	71004	RunNo: 92027								
Prep Date: 10/23/2022	Analysis Date:	10/25/2022	5	SeqNo: 33	02558	Units: mg/K	g				
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

Received by OCD: 1/11/2023 9:05:28 AM

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit н

в Analyte detected in the associated Method Blank Е Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

- J Р
 - Sample pH Not In Range Reporting Limit RL

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ND PQL Practical Quanitative Limit

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Ches TB

Sample ID: 2210a35-011amsd	SampType: MSD			Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: S-3 3'	Batch ID: 71004			F						
Prep Date: 10/23/2022	Analysis Date: 10/25/2022			5	SeqNo: 3	302558	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.70	0	90.7	70	130	10.2	20	
Surr: BFB	1800		988.1		182	37.7	212	0	0	

S

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 PQL
 - % Recovery outside of standard limits. If undiluted results may be estimated.
- В Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- Е
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Limit RL

Page 17 of 19

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Ches TB

No. of the local division of the local divis			and the second se				and the second se			
Sample ID: mb-71003	Samp	Туре: М	BLK	Te	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Bato	ch ID: 71	003		RunNo: 9	2027				
Prep Date: 10/23/2022	Analysis	Date: 10)/24/2022		SeqNo: 3	302586	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		105	70	130			
Sample ID: LCS-71003	SampType: LCS			Tes	stCode: El	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch ID: 71003			F	RunNo: 9 2	2027				
Prep Date: 10/23/2022	Analysis I	Date: 10	/24/2022	:	SeqNo: 3:	302587	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	102	80	120			
Foluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Kylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			
Sample ID: mb-71004	Samp	Гуре: МВ	LK	Tes	tCode: EF	A Method	8021B: Volati	les		
Sample ID: mb-71004 Client ID: PBS		Гуре: МВ h ID: 710			tCode: EF		8021B: Volati	les		
Client ID: PBS		h ID: 710	04	F		2027	8021B: Volati Units: mg/K			
Client ID: PBS Prep Date: 10/23/2022	Batcl	h ID: 710	04 /24/2022	F	RunNo: 92	2027			RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte	Batcl Analysis E	h ID: 710 Date: 10	04 /24/2022	F	RunNo: 92 SeqNo: 33	2027 802600	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene	Batcl Analysis D Result	h ID: 710 Date: 10 PQL	04 /24/2022	F	RunNo: 92 SeqNo: 33	2027 802600	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Toluene	Batcl Analysis I Result ND	h ID: 710 Date: 10 PQL 0.025	04 /24/2022	F	RunNo: 92 SeqNo: 33	2027 802600	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene oluene thylbenzene	Batch Analysis E Result ND ND	h ID: 710 Date: 10 PQL 0.025 0.050	04 /24/2022	F	RunNo: 92 SeqNo: 33	2027 302600 LowLimit	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Foluene thylbenzene	Batch Analysis E Result ND ND ND	PQL 0.025 0.050 0.050	04 /24/2022	F	RunNo: 92 SeqNo: 33	2027 802600	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Foluene Sthylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene	Batch Analysis D Result ND ND ND 1.0	PQL 0.025 0.050 0.050	04 /24/2022 SPK value 1.000	F SPK Ref Val	RunNo: 92 SeqNo: 33 %REC 104	2027 302600 LowLimit 70	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Foluene Ethylbenzene Kylenes, Total	Batch Analysis E Result ND ND ND 1.0 SampT	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10	1.000 1.000	F SPK Ref Val	RunNo: 92 SeqNo: 33 %REC 104	2027 302600 LowLimit 70	Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS	Batch Analysis E Result ND ND ND 1.0 SampT	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 ype: LCS	1.000 1.000	F SPK Ref Val Tes F	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP	2027 302600 LowLimit 70 A Method 3 027	Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene oluene Sthylbenzene Sylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS Prep Date: 10/23/2022	Batch Analysis I Result ND ND ND 1.0 SampT Batch	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 ype: LCS	1.000 1.000 04 24/2022	F SPK Ref Val Tes F	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP RunNo: 92	2027 302600 LowLimit 70 A Method 3 027	Units: mg/K HighLimit 130 8021B: Volatil	g %RPD	RPDLimit	Qual
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Joluene Strylbenzene Sydenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS Prep Date: 10/23/2022 Analyte	Batch Analysis D ND ND ND ND 1.0 SampT Batch Analysis D	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 ype: LCS h ID: 710 bate: 10/	1.000 1.000 04 24/2022	F SPK Ref Val Tes F S	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP RunNo: 92 SeqNo: 33	2027 302600 LowLimit 70 A Method 3 027 02601	Units: mg/K HighLimit 130 8021B: Volatil Units: mg/K HighLimit 120	g %RPD les		
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS Prep Date: 10/23/2022 Analyte enzene	Batch Analysis D Result ND ND ND 1.0 SampT Batch Analysis D Result 1.0 1.0	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 ype: LCS h ID: 710 hate: 10/ PQL	04 /24/2022 SPK value 1.000 5 04 24/2022 SPK value 1.000 1.000 1.000	F SPK Ref Val Tes SPK Ref Val 0 0	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP RunNo: 92 SeqNo: 33 %REC 100 101	2027 302600 LowLimit 70 70 A Method 3 027 02601 LowLimit 80 80	Units: mg/K HighLimit 130 8021B: Volatil Units: mg/K HighLimit 120 120	g %RPD les		
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene oluene thylbenzene (ylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS Prep Date: 10/23/2022 Analyte enzene oluene	Batch Analysis D Result ND ND ND 1.0 SampT Batch Analysis D Result 1.0	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 ype: LCS h ID: 710 hate: 10/ PQL 0.025	04 /24/2022 SPK value 1.000 5 04 24/2022 SPK value 1.000	F SPK Ref Val Tes S SPK Ref Val 0	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP RunNo: 92 SeqNo: 33 %REC 100	2027 302600 LowLimit 70 A Method 3 027 02601 LowLimit 80	Units: mg/K HighLimit 130 8021B: Volatil Units: mg/K HighLimit 120 120 120	g %RPD les		
Client ID: PBS Prep Date: 10/23/2022 Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71004 Client ID: LCSS	Batch Analysis D Result ND ND ND 1.0 SampT Batch Analysis D Result 1.0 1.0	h ID: 710 Date: 10 PQL 0.025 0.050 0.050 0.10 Type: LCS h ID: 710 hate: 10/ PQL 0.025 0.050	04 /24/2022 SPK value 1.000 5 04 24/2022 SPK value 1.000 1.000 1.000	F SPK Ref Val Tes SPK Ref Val 0 0	RunNo: 92 SeqNo: 33 %REC 104 tCode: EP RunNo: 92 SeqNo: 33 %REC 100 101	2027 302600 LowLimit 70 70 A Method 3 027 02601 LowLimit 80 80	Units: mg/K HighLimit 130 8021B: Volatil Units: mg/K HighLimit 120 120	g %RPD les		

Qualifiers:

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Received by OCD: 1/11/2023 9:05:28 AM

Value exceeds Maximum Contaminant Level. D

Sample Diluted Due to Matrix н Holding times for preparation or analysis exceeded В Analyte detected in the associated Method Blank

Ε Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
 - Р Sample pH Not In Range
 - RL Reporting Limit

Page 18 of 19

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

WO#: 2210A35

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Ches TB

Sample ID: 2210a35-012ams	SampType: MS			Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: S-3 4'	Batc	h ID: 710	004	F	RunNo: 92027					
Prep Date: 10/23/2022	Analysis [Date: 10	/25/2022	5	SeqNo: 3	302604	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9775	0	96.0	68.8	120			
Toluene	0.96	0.049	0.9775	0	98.4	73.6	124			
Ethylbenzene	0.97	0.049	0.9775	0	99.7	72.7	129			
Xylenes, Total	3.0	0.098	2.933	0.01877	100	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9775		101	70	130			
Sample ID: 2210a35-012amsd	SampT	ype: MS	D	Tes	tCode: EF	A Method	8021B: Volati	iles		
Sample ID: 2210a35-012amsd Client ID: S-3 4'		Type: MS h ID: 710			tCode: EF RunNo: 92		8021B: Volati	iles		
•		n ID: 710	04	F		2027	8021B: Volati Units: mg/K			
Client ID: S-3 4'	Batch	n ID: 710	04	F	RunNo: 92	2027			RPDLimit	Qual
Client ID: S-3 4' Prep Date: 10/23/2022	Batch Analysis D	n ID: 710 Date: 10,	004 /25/2022	F	RunNo: 92 SeqNo: 33	2027 302605	Units: mg/K	g	RPDLimit 20	Qual
Client ID: S-3 4' Prep Date: 10/23/2022 Analyte	Batch Analysis D Result	n ID: 710 Date: 10, PQL	04 /25/2022 SPK value	F S SPK Ref Val	RunNo: 92 SeqNo: 33 %REC	2027 302605 LowLimit	Units: mg/K HighLimit	g %RPD		Qual
Client ID: S-3 4' Prep Date: 10/23/2022 Analyte Benzene	Batch Analysis D Result 0.82	n ID: 710 Date: 10, PQL 0.025	04 /25/2022 SPK value 0.9980	F SPK Ref Val 0	RunNo: 92 SeqNo: 33 %REC 82.1	2027 302605 LowLimit 68.8	Units: mg/K HighLimit 120	g %RPD 13.6	20	Qual
Client ID: S-3 4' Prep Date: 10/23/2022 Analyte Benzene Toluene	Batch Analysis D Result 0.82 0.83	n ID: 710 Date: 10, PQL 0.025 0.050	004 /25/2022 SPK value 0.9980 0.9980	F SPK Ref Val 0 0	RunNo: 92 SeqNo: 33 %REC 82.1 83.0	2027 302605 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124	g %RPD 13.6 14.9	20 20	Qual

Received by OCD: 1/11/2023 9:05:28 AM D Sams ND Not I POL Pract S % Re

* 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 star
 - % 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 19 of 19

WO#: 2210A35

31-Oct-22

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Lab 4901 Hawi Albuquerque, NM 975 FAX: 505-34 v.hallenvironmen	kins NE 187109 Sar 5-4107	nple Log-In Ch	eck List
Client Name: R & R Environmental	Work Order Numb	ber: 2210A35		RcptNo: 1	
	10/20/2022 7:55:00		flans g		
Completed By: Tracy Casarrubias Reviewed By: S&C いくてきいてん	10/20/2022 8:44:38	АМ			
Chain of Custody		_	_	_	
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly p	reserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for	or AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
10. Were any sample containers received broken?		Yes 🗆	No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆		2 unless noted)
12. Are matrices correctly identified on Chain of Cu	stody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		2010 00 0
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	2410-20.23
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this	order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via:	·	Phone 🗍 Fax	In Person	
16. Additional remarks:					
procession of the second design of the second design of the second second second second second second second se	Intact Seal No	Seal Date	Signed By		
1 2.4 Good Yes	l l				

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Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals 60, VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)		$10, 15$ 1 $5 \cdot 3$ 4° 1 $0 \cdot 1$ 1
5 Davy 4901 Ha Tel. 505	8081 Pesticides/8082 PCB's BTEX / MTBE / TMB's (8021) BTEX / MTBE / TMB's (8021)		$\frac{O(12)}{10} = \frac{1}{100} = \frac$
T B	Project Manager: (465) 623 4644 Sampler: Jourtes Courtes On Ice: Dres Courtes no # of Coolers: 1 Cooler Temp(medual cr): 7:3-0.12 Cooler Temp(medual cr): 7:3-0.12 Cooler Temp(medual cr): 7:3-0.12 Cooler Temp(medual cr): 7:3-0.12 Cooler Temp(medual cr): 7:3-0.12 Container Preservative HE	0011 011	Received by: Via: OUT CUMUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	Development Devel	5-1 2' 5-1 3' 5-1 4' 5-2 01' 5-2 2' 5-2 2' 5-2 2' 5-2 21' 5-3 2' 5-3 2'	Relinquished by: Relinquished by: Relinquished by: Removed by: AMMMMM samples submitted to Hall Environmental may be subco
Client: $R chain-Client: R chain-Client: R chain Address: A + b = 5 \cdot cMailing Address: A + b = 5 \cdot cPhone #: 575 - c$	QA/QC Package: Carandard Accreditation: Carandard Accreditation: Carandard Accreditation: Carandard Accreditation: Carandard Accreditation: Carandard Accreditation: Carandard Accreditation: Carandard Carandard Accreditation: Carandarda	9:15 9:25 9:25 9:25 9:40 9:46 9:46 9:46 10:01 10:02	Date: Time: 0.2.11 (C.:Plane: 0.2.11 (C.:Plane: Date: Time: 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Released to Imaging: 2/1/2023 11:04:50 AM

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 08, 2022

James Carnes R & R Environmental 1505 W. Bullock Ave Artesia, NM 88210 TEL: (575) 616-9340 FAX:

RE: Uncle Chess

OrderNo.: 2211E59

Released to Imaging: 2/1/2023 11:04:50 AM

Dear James Carnes:

Hall Environmental Analysis Laboratory received 15 sample(s) on 11/30/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

12/3/2022 9:49:00 AM

71799

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Cl	ient Sample II): S1	A 5'		
Project:	Uncle Chess	Collection Date: 11/28/2022 9:00:00 AM						
Lab ID:	2211E59-001	Matrix: SOIL		Received Date	e: 11/	/30/2022 7:40:00 AM		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analysi	t: JTT	
Chloride		ND	60	mg/Kg	20	12/6/2022 1:43:40 AM	71860	
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	DGH	
Diesel Ra	ange Organics (DRO)	38	14	mg/Kg	1	12/2/2022 10:17:48 PM	71805	
Motor Oi	Range Organics (MRO)	ND	48	mg/Kg	1	12/2/2022 10:17:48 PM	71805	
Surr: E	DNOP	98.5	21-129	%Rec	1	12/2/2022 10:17:48 PM	71805	
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	CCM	
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2022 9:49:00 AM	71799	
Surr: E	3FB	95.1	37.7-212	%Rec	1	12/3/2022 9:49:00 AM	71799	
EPA MET	HOD 8021B: VOLATILES					Analyst	CCM	
Benzene		ND	0.025	mg/Kg	1	12/3/2022 9:49:00 AM	71799	
Toluene		ND	0.050	mg/Kg	1	12/3/2022 9:49:00 AM	71799	
Ethylbenz	zene	ND	0.050	mg/Kg	1	12/3/2022 9:49:00 AM	71799	
Xylenes,	Total	ND	0.099	mg/Kg	1	12/3/2022 9:49:00 AM	71799	

97.0

70-130

%Rec

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

Surr: 4-Bromofluorobenzene

D Sample Diluted Due to Matrix Н 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.

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
- Sample pH Not In Range P

RL Reporting Limit

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

Oualifiers:	*	Value exceeds Maximum Contaminant Level.
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- D Sample Diluted Due to Matrix
- н 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.
- В Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- Reporting Limit RL

Page 2 of 21

Analytical Report
Lab Order 2211E59
Date Reported: 12/8/2022

Analyses		Result	RL Qual Units	DF Date Analyzed	Batch
Lab ID:	2211E59-002	Matrix: SOIL	Received Dat	e: 11/30/2022 7:40:00 AM	Λ
Project:	Uncle Chess		Collection Dat	e: 11/28/2022 9:10:00 AM	Л
CLIENT	R & R Environmental		Client Sample I	D: S1A 7'	

EPA METHOD 300.0: ANIONS					Analyst	JTT
Chloride	ND	60	mg/Kg	20	12/6/2022 1:56:04 AM	71860
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/2/2022 10:31:38 PM	71805
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/2/2022 10:31:38 PM	71805
Surr: DNOP	110	21-129	%Rec	1	12/2/2022 10:31:38 PM	71805
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/3/2022 11:07:00 AM	71799
Surr: BFB	93.1	37.7-212	%Rec	1	12/3/2022 11:07:00 AM	71799
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	12/3/2022 11:07:00 AM	71799
Toluene	ND	0.049	mg/Kg	1	12/3/2022 11:07:00 AM	71799
Ethylbenzene	ND	0.049	mg/Kg	1	12/3/2022 11:07:00 AM	71799
Xylenes, Total	ND	0.098	mg/Kg	1	12/3/2022 11:07:00 AM	71799
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	12/3/2022 11:07:00 AM	71799

Hall Environmental Analysis Laboratory, Inc.

	R & R Environmental	Client Sample ID: S2A 1'								
Project: Lab ID:	Uncle Chess 2211E59-003	Collection Date: 11/28/2022 9:20:00 A Matrix: SOIL Received Date: 11/30/2022 7:40:00 A								
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS					Analyst	JTT			
Chloride		ND	60	mg/Kg	20	12/6/2022 2:08:29 AM	71860			
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	DGH			
Diesel R	ange Organics (DRO)	ND	15	mg/Kg	1	12/2/2022 10:45:17 PM	71805			
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	12/2/2022 10:45:17 PM	71805			
Surr: I	DNOP	96.8	21-129	%Rec	1	12/2/2022 10:45:17 PM	71805			
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	CCM			
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 11:27:00 AM	71799			
•		00.0	077040	0/ 🗖 = =	4	10/0/0000 11:07:00 444	71700			

12/3/2022 11:27:00 AM 71799 Surr: BFB 99.0 37.7-212 %Rec 1 Analyst: CCM **EPA METHOD 8021B: VOLATILES** 12/3/2022 11:27:00 AM 71799 Benzene ND 0.024 mg/Kg 1 mg/Kg 12/3/2022 11:27:00 AM 71799 Toluene ND 0.048 1 12/3/2022 11:27:00 AM 71799 ND 0.048 mg/Kg 1 Ethylbenzene ND 0.097 mg/Kg 1 12/3/2022 11:27:00 AM 71799 Xylenes, Total 12/3/2022 11:27:00 AM 71799 Surr: 4-Bromofluorobenzene 98.3 70-130 %Rec 1

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

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

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Analytical Report
Lab Order 2211E59
Date Reported: 12/8/2022

Analyst: DGH

Analyst: CCM

Analyst: CCM

71799

12/2/2022 10:58:51 PM 71805

12/2/2022 10:58:51 PM 71805

12/2/2022 10:58:51 PM 71805

12/3/2022 11:47:00 AM 71799

12/3/2022 11:47:00 AM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

CLIENT:	R & R Environmental		Client	t Sample II	D: S3.	A 1.5'		
Project:	Uncle Chess	Collection Date: 11/28/2022 9:30:00 AM						
Lab ID:	2211E59-004	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM						
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analys	: JTT	
Chloride		ND	60	ma/Ka	20	12/6/2022 2:20:53 AM	71860	

ND

ND

100

ND

93.3

ND

ND

ND

ND

95.1

15

50

4.7

37.7-212

0.023

0.047

0.047

0.094

70-130

21-129

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

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

*

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank В
- Above Quantitation Range/Estimated Value Ε Analyte detected below quantitation limits J
 - Sample pH Not In Range
- P RL Reporting Limit

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Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

Analytical Report
Lab Order 2211E59
Data Damanta d. 10/0/20

ysis Laboratory, Inc.	Date Reported: 12/8/2022					
	Client Sample ID: S5A 1'					
	Collection Date: 11/28/2022 9:40:00 AM					
Matrix: SOIL	Received Date: 11/30/2022 7:40:00 AM					

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	59	mg/Kg	20	12/6/2022 2:33:18 AM	71860
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 3:07:12 PM	71805
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 3:07:12 PM	71805
Surr: DNOP	115	21-129	%Rec	1	12/5/2022 3:07:12 PM	71805
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/3/2022 12:06:00 PM	71799
Surr: BFB	96.4	37.7-212	%Rec	1	12/3/2022 12:06:00 PM	71799
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.023	mg/Kg	1	12/3/2022 12:06:00 PM	71799
Toluene	ND	0.046	mg/Kg	1	12/3/2022 12:06:00 PM	71799
Ethylbenzene	ND	0.046	mg/Kg	1	12/3/2022 12:06:00 PM	71799
Xylenes, Total	ND	0.091	mg/Kg	1	12/3/2022 12:06:00 PM	71799
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	12/3/2022 12:06:00 PM	71799

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
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в Ε Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL Reporting Limit

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Project: Lab ID:

CLIENT: R & R Environmental Uncle Chess

2211E59-005

CLIENT:	R & R Environmental		Cli	ient Sample II): S6	A 1'	
Project:	Uncle Chess		0	Collection Date	e: 11	/28/2022 9:50:00 AM	
Lab ID:	2211E59-006	Matrix: SOIL		Received Date	e: 11	/30/2022 7:40:00 AM	
Analyses	1	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 2:45:43 AM	71860
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	DGH
Diesel R	ange Organics (DRO)	ND	14	mg/Kg	1	12/2/2022 11:26:15 PM	71805
Motor Oi	Range Organics (MRO)	ND	48	mg/Kg	1	12/2/2022 11:26:15 PM	71805
Surr: [DNOP	89.8	21-129	%Rec	1	12/2/2022 11:26:15 PM	71805
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	CCM
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	12/3/2022 12:26:00 PM	71799
Surr: E	3FB	95.6	37.7-212	%Rec	1	12/3/2022 12:26:00 PM	71799
EPA MET	THOD 8021B: VOLATILES					Analyst	CCM
Benzene		ND	0.023	mg/Kg	1	12/3/2022 12:26:00 PM	71799
Toluene		ND	0.046	mg/Kg	1	12/3/2022 12:26:00 PM	71799
Ethylben	zene	ND	0.046	mg/Kg	1	12/3/2022 12:26:00 PM	71799
Xylenes,	Total	ND	0.092	mg/Kg	1	12/3/2022 12:26:00 PM	71799
Surr: 4	-Bromofluorobenzene	97.2	70-130	%Rec	1	12/3/2022 12:26:00 PM	71799

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
 - Analyte detected below quanti Sample pH Not In Range
- P Sample pH Not In Ran RL Reporting Limit

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CLIENT:	R & R Environmental		Cl	ient S	ample I	D: S7	'A 1'	
Project:	Uncle Chess		(Collec	tion Dat	e: 11	/28/2022 10:00:00 AM	1
Lab ID:	2211E59-007	Matrix: SOII	د	Rece	ived Dat	e: 11	/30/2022 7:40:00 AM	
Analyses		Result	RL	Qua	l Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: JTT
Chloride		ND	60		mg/Kg	20	12/6/2022 2:58:08 AM	71860
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	DGH
Diesel Ra	inge Organics (DRO)	2800	140		mg/Kg	10	12/2/2022 8:10:15 PM	71805
Motor Oil	Range Organics (MRO)	1600	470		mg/Kg	10	12/2/2022 8:10:15 PM	71805
Surr: D	NOP	0	21-129	S	%Rec	10	12/2/2022 8:10:15 PM	71805
EPA MET	HOD 8015D: GASOLINE RAN	IGE					Analyst	ССМ
Gasoline I	Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2022 12:46:00 PM	71799
Surr: B	FB	107	37.7-212		%Rec	1	12/3/2022 12:46:00 PM	71799

ND

ND

ND

ND

99.3

0.025

0.049

0.049

0.098

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value E J
 - Analyte detected below quantitation limits
- Sample pH Not In Range Р RL
- **Reporting Limit**

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Analyst: CCM

12/3/2022 12:46:00 PM 71799

Received by OCD: 1/11/2023 9:05:28 AM

12/3/2022 1:06:00 PM

71799

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Cl	ient Sample II	D: S9	9A 1'		
Project:	Uncle Chess		Collection Date: 11/28/2022 10:10:00 AM					
Lab ID:	2211E59-008	Matrix: SOIL		Received Dat	e: 11	/30/2022 7:40:00 AM		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: JTT	
Chloride		ND	60	mg/Kg	20	12/6/2022 3:10:33 AM	71860	
EPA ME	THOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst	DGH	
Diesel Ra	ange Organics (DRO)	ND	14	mg/Kg	1	12/2/2022 11:40:00 PM	71805	
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	12/2/2022 11:40:00 PM	71805	
Surr: D	DNOP	102	21-129	%Rec	1	12/2/2022 11:40:00 PM	71805	
EPA MET	HOD 8015D: GASOLIN	E RANGE				Analyst	CCM	
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2022 1:06:00 PM	71799	
Surr: E	BFB	91.7	37.7-212	%Rec	1	12/3/2022 1:06:00 PM	71799	
EPA MET	HOD 8021B: VOLATILE	S				Analyst	CCM	
Benzene		ND	0.025	mg/Kg	1	12/3/2022 1:06:00 PM	71799	
Toluene		ND	0.050	mg/Kg	1	12/3/2022 1:06:00 PM	71799	
Ethylbenz	zene	ND	0.050	mg/Kg	1	12/3/2022 1:06:00 PM	71799	
Xylenes,	Total	ND	0.099	mg/Kg	1	12/3/2022 1:06:00 PM	71799	

95.5

70-130

%Rec

1

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

Qualifiers:

*

Surr: 4-Bromofluorobenzene

- н 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.
- в Analyte detected in the associated Method Blank Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- P RL Reporting Limit

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Analytical Report
Lab Order 2211E59
Date Reported: 12/8/2022

CLIENT: R&R	Environmental		Cl	ient Sample I	D: S1	0A 1'	
Project: Uncle C	Chess		(Collection Dat	t e: 11	/28/2022 10:20:00 AM	[
Lab ID: 2211E5	9-009	Matrix: SOII	۰	Received Dat	t e: 11	/30/2022 7:40:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 30	0.0: ANIONS					Analyst	JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 3:47:46 AM	71860
EPA METHOD 80	15M/D: DIESEL RANGE	ORGANICS				Analyst	DGH
Diesel Range Orga	nics (DRO)	ND	15	mg/Kg	1	12/3/2022 12:06:59 AM	71805
Motor Oil Range Or	ganics (MRO)	ND	50	mg/Kg	1	12/3/2022 12:06:59 AM	71805
Surr: DNOP		100	21-129	%Rec	1	12/3/2022 12:06:59 AM	71805
EPA METHOD 80	15D: GASOLINE RANG	E				Analyst	ССМ
Gasoline Range Or	ganics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 1:25:00 PM	71799
Surr: BFB		94.1	37.7-212	%Rec	1	12/3/2022 1:25:00 PM	71799

Surr: BFB 94.1 37.7-212 %Rec EPA METHOD 8021B: VOLATILES Analyst: CCM 12/3/2022 1:25:00 PM ND 0.024 mg/Kg Benzene 1 Toluene ND 0.048 mg/Kg 1 12/3/2022 1:25:00 PM 12/3/2022 1:25:00 PM Ethylbenzene ND 0.048 mg/Kg 1 Xylenes, Total ND 0.096 mg/Kg 1 12/3/2022 1:25:00 PM 12/3/2022 1:25:00 PM 94.8 70-130 %Rec 1 Surr: 4-Bromofluorobenzene

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix
 - н 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. S
- Analyte detected in the associated Method Blank в E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL **Reporting Limit**

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71799

71799

71799

71799

71799

Page 68 of 152 Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental		Cl	ient Sample ID): S1	3A 1'	
Project:	Uncle Chess	Collection Date: 11/28/2022 10:30:00 AM					
Lab ID:	2211E59-010	Matrix: SOIL		Received Date	:: 11	/30/2022 7:40:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 4:00:11 AM	71860
EPA MET	HOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	180	15	mg/Kg	1	12/3/2022 12:20:31 AM	71805
Motor Oil	Range Organics (MRO)	110	50	mg/Kg	1	12/3/2022 12:20:31 AM	71805
Surr: D	NOP	91.5	21-129	%Rec	1	12/3/2022 12:20:31 AM	71805
EPA MET	HOD 8015D: GASOLINE RAN	GE				Analyst	CCM
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 1:45:00 PM	71799
Surr: B	FB	98.1	37.7-212	%Rec	1	12/3/2022 1:45:00 PM	71799
EPA MET	HOD 8021B: VOLATILES					Analyst	CCM
Benzene		ND	0.024	mg/Kg	1	12/3/2022 1:45:00 PM	71799
Toluene		ND	0.047	mg/Kg	1	12/3/2022 1:45:00 PM	71799
Ethylbenz	ene	ND	0.047	mg/Kg	1	12/3/2022 1:45:00 PM	71799
Xylenes,	Total	ND	0.094	mg/Kg	1	12/3/2022 1:45:00 PM	71799
Surr: 4	-Bromofluorobenzene	97.1	70-130	%Rec	1	12/3/2022 1:45:00 PM	71799

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

Qualifiers:

Received by OCD: 1/11/2023 9:05:28 AM

* 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 ND

Practical Quanitative Limit PQL

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

Analyte detected in the associated Method Blank в

Above Quantitation Range/Estimated Value Е J

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit

Р

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Analytical Report
Lab Order 2211E59
Date Reported: 12/8/2022

CLIENT: R & R Environmental	Client Sample ID: S14A 7'					
Project: Uncle Chess	Collection Date: 11/28/2022 10:40:00 AM					
Lab ID: 2211E59-011	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JTT
Chloride	ND	60	mg/Kg	20	12/6/2022 4:12:36 AM	71860
EPA METHOD 8015M/D: DIESEL RAM				Analysi	: DGH	

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	DGH
Diesel Range Organics (DRO)	110	14	mg/Kg	1	12/3/2022 12:34:06 AM	71805
Motor Oil Range Organics (MRO)	81	47	mg/Kg	1	12/3/2022 12:34:06 AM	71805
Surr: DNOP	101	21-129	%Rec	1	12/3/2022 12:34:06 AM	71805
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 2:05:00 PM	71799
Surr: BFB	95.2	37.7-212	%Rec	1	12/3/2022 2:05:00 PM	71799
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	12/3/2022 2:05:00 PM	71799
Toluene	ND	0.047	mg/Kg	1	12/3/2022 2:05:00 PM	71799
Ethylbenzene	ND	0.047	mg/Kg	1	12/3/2022 2:05:00 PM	71799
Xylenes, Total	ND	0.095	mg/Kg	1	12/3/2022 2:05:00 PM	71799
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	12/3/2022 2:05:00 PM	71799

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.
- Analyte detected in the associated Method Blank в E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- P RL **Reporting Limit**

Analytical Report
Lab Order 2211E59
Date Reported: 12/8/2022

12/2/2022 10:46:08 PM 71800

12/2/2022 10:46:08 PM 71800

12/2/2022 10:46:08 PM 71800

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental	Client Sample ID: S15A 1.5'							
Project:	Uncle Chess	Collection Date: 11/28/2022 10:50:00 AM							
Lab ID:	2211E59-012	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM							
Analyses		R	esult	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS							Analys	t: JTT
Chloride			ND	60		mg/Kg	20	12/6/2022 4:25:01 AM	71860
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyse					Analysi	t DGH			
Diesel Ra	ange Organics (DRO)		ND	15		mg/Kg	1	12/3/2022 12:47:35 AM	71805
Motor Oil	Range Organics (MRO)		ND	50		mg/Kg	1	12/3/2022 12:47:35 AM	71805
Surr: D	NOP		101	21-129		%Rec	1	12/3/2022 12:47:35 AM	71805
EPA METHOD 8015D: GASOLINE RANGE								Analyst	NSB
Gasoline	Range Organics (GRO)		ND	4.9		mg/Kg	1	12/2/2022 10:46:08 PM	71800
Surr: B	FB		88.8	37.7-212		%Rec	1	12/2/2022 10:46:08 PM	71800
EPA MET	HOD 8021B: VOLATILES							Analyst	NSB
Benzene			ND	0.024		mg/Kg	1	12/2/2022 10:46:08 PM	71800
Toluene			ND	0.049		mg/Kg	1	12/2/2022 10:46:08 PM	71800

ND

ND

91.3

0.049

0.097

70-130

mg/Kg

mg/Kg

%Rec

1

1

1

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

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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
- PQL Practical Quanitative Limit

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

- В Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Е Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit

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12/3/2022 12:43:41 AM 71800

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental	Client Sample ID: S18A 1.5'							
Project: Uncle Chess	Collection Date: 11/28/2022 11:00:00 AM							
Lab ID: 2211E59-013	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM							
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: JTT		
Chloride	ND	60	mg/Kg	20	12/6/2022 4:37:26 AM	71860		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/3/2022 1:01:13 AM	71805		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/3/2022 1:01:13 AM	71805		
Surr: DNOP	99.2	21-129	%Rec	1	12/3/2022 1:01:13 AM	71805		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 12:43:41 AM	71800		
Surr: BFB	88.8	37.7-212	%Rec	1	12/3/2022 12:43:41 AM	71800		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	12/3/2022 12:43:41 AM	71800		
Toluene	ND	0.048	mg/Kg	1	12/3/2022 12:43:41 AM	71800		
Ethylbenzene	ND	0.048	mg/Kg	1	12/3/2022 12:43:41 AM	71800		
Xylenes, Total	ND	0.095	mg/Kg	1	12/3/2022 12:43:41 AM	71800		

91.2

70-130

%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

Surr: 4-Bromofluorobenzene

- 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
 - Analyte detected below quantitat Sample pH Not In Range
- P Sample pH Not In Range RL Reporting Limit
- Page 13 of 21

12/3/2022 1:54:04 AM

12/3/2022 1:54:04 AM

12/3/2022 1:54:04 AM

12/3/2022 1:54:04 AM

71800

71800

71800

71800

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental	Client Sample ID: S19A 1.5'						
Project:	Uncle Chess	Collection Date: 11/28/2022 11:10:00 AM						
Lab ID:	2211E59-014	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	JTT	
Chloride		ND	60	mg/Kg	20	12/6/2022 4:49:51 AM	71860	
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst:						DGH		
Diesel Ra	ange Organics (DRO)	65	14	mg/Kg	1	12/3/2022 1:14:18 AM	71805	
Motor Oil	Range Organics (MRO)	58	48	mg/Kg	1	12/3/2022 1:14:18 AM	71805	
Surr: D	NOP	85.1	21-129	%Rec	1	12/3/2022 1:14:18 AM	71805	
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB	
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 1:54:04 AM	71800	
Surr: B	FB	88.8	37.7-212	%Rec	1	12/3/2022 1:54:04 AM	71800	
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB	
Benzene		ND	0.024	mg/Kg	1	12/3/2022 1:54:04 AM	71800	

ND

ND

ND

92.8

0.048

0.048

0.096

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

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

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- 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
- E Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
 - Analyte detected below quantita Sample pH Not In Range
- P Sample pH Not In Rat RL Reporting Limit
- Page 14 of 21
Analytical Report Lab Order 2211E59 Date Reported: 12/8/2022

12/3/2022 2:17:25 AM

71800

71800

71800

71800

71800

71800

71800

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	R & R Environmental		Client Sample ID: S20A 1.5'									
Project:	Uncle Chess		Collection Date: 11/28/2022 11:20:00 AM									
Lab ID:	2211E59-015	Matrix: SOIL Received Date: 11/30/2022 7:40:00 AM										
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT					
Chloride		ND	60	mg/Kg	20	12/6/2022 5:02:16 AM	71860					
EPA MET	HOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analyst	DGH					
Diesel Ra	ange Organics (DRO)	ND	15	mg/Kg	1	12/3/2022 1:27:19 AM	71805					
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	12/3/2022 1:27:19 AM	71805					
Surr: D	NOP	94.7	21-129	%Rec	1	12/3/2022 1:27:19 AM	71805					
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	NSB					

4.8

37.7-212

0.024

0.048

0.048

0.095

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

87.6

ND

ND

ND

ND

91.0

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

Received by OCD: 1/11/2023 9:05:28 AM

- * 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

R & R Environmental **Client:**

Project: Uncle Chess

Sample ID:	MB-71860	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID:	PBS	Batch	ID: 718	360	F	RunNo: 9	3034				
Prep Date:	12/5/2022	Analysis D	ate: 12	/5/2022	S	SeqNo: 3	350498	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-71860	SampTy	pe: LC:	s	Tes	tCode: EF	PA Method	300.0: Anions	;		
Client ID:	LCSS	Batch	ID: 718	860	F	RunNo: 93	3034				
Prep Date:	12/5/2022	Analysis Da	ate: 12	/5/2022	5	SeqNo: 33	350499	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.9	90	110			

Qualifiers: *

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D
- н 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.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value В
- E
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Limit RL

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08-Dec-22

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Chess

Sample ID: MB-71813	SampType: MBI	LK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics							
Client ID: PBS	Batch ID: 718	13	F	RunNo: 92	2982										
Prep Date: 12/2/2022	Analysis Date: 12/	2/2022	5	SeqNo: 33	348099	Units: %Rec	:								
Analyte	Result PQL	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RI							Qual						
Surr: DNOP	9.9	10.00		99.3	21	129									
Sample ID: LCS-71813	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics														
Client ID: LCSS	Batch ID: 71813 RunNo: 92982														
Prep Date: 12/2/2022	Analysis Date: 12/	2/2022	5	SeqNo: 33	48100	Units: %Rec	:								
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Surr: DNOP	4.5	5.000		90.2	21	129									
Sample ID: MB-71805	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics														
Compio 10. 110-1 1000	oumprype. MDL	-1.	100	100000. LI	/ mounou			Batch ID: 71805 RunNo: 92982							
Client ID: PBS							g-								
		05	F		982	Units: mg/K									
Client ID: PBS	Batch ID: 7180 Analysis Date: 12/2	05 2/2022	F	RunNo: 92	982			RPDLimit	Qual						
Client ID: PBS Prep Date: 12/1/2022	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15	05 2/2022	F	RunNo: 92 SeqNo: 33	982 49686	Units: mg/K	g	-	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50	05 2/2022 SPK value	F	RunNo: 92 SeqNo: 33 %REC	2982 249686 LowLimit	Units: mg/K g HighLimit	g	-	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO)	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15	05 2/2022	F	RunNo: 92 SeqNo: 33	982 49686	Units: mg/K	g	-	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50	05 2/2022 SPK value 10.00	F SPK Ref Val	RunNo: 92 SeqNo: 33 %REC 90.0	2982 49686 LowLimit 21	Units: mg/K g HighLimit	g %RPD	RPDLimit	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50 9.0	05 2/2022 SPK value 10.00	F SPK Ref Val Tes	RunNo: 92 SeqNo: 33 %REC 90.0	2982 49686 LowLimit 21 A Method 1	Units: mg/K g HighLimit 129	g %RPD	RPDLimit	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: LCS-71805	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50 9.0 SampType: LCS	05 2/2022 SPK value 10.00	F SPK Ref Val Tes F	RunNo: 92 SeqNo: 33 %REC 90.0	2982 499686 LowLimit 21 A Method 8 982	Units: mg/K g HighLimit 129	g %RPD sel Range	RPDLimit	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: LCS-71805 Client ID: LCSS	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50 9.0 SampType: LCS Batch ID: 7180 Analysis Date: 12/2	05 2/2022 SPK value 10.00 05 2/2022	F SPK Ref Val Tes F	RunNo: 92 SeqNo: 33 %REC 90.0 tCode: EP	2982 499686 LowLimit 21 A Method 8 982	Units: mg/Kg HighLimit 129 8015M/D: Dies	g %RPD sel Range	RPDLimit	Qual						
Client ID: PBS Prep Date: 12/1/2022 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: LCS-71805 Client ID: LCSS Prep Date: 12/1/2022	Batch ID: 7180 Analysis Date: 12/2 Result PQL ND 15 ND 50 9.0 SampType: LCS Batch ID: 7180 Analysis Date: 12/2	05 2/2022 SPK value 10.00 05 2/2022	F SPK Ref Val Tes F S	RunNo: 92 SeqNo: 33 %REC 90.0 tCode: EP RunNo: 92 SeqNo: 33	2982 49686 LowLimit 21 A Method 8 982 49687	Units: mg/Kg HighLimit 129 B015M/D: Dies Units: mg/Kg	g %RPD sel Range	RPDLimit Organics							

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

В Analyte detected in the associated Method Blank

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

- Not Detected at the Reporting Limit Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

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WO#: 2211E59

08-Dec-22

WO#: 2211E59

Client: R & R E Project: Uncle Cl	nvironmental hess								
Sample ID: mb-71800	SampType:					8015D: Gaso	oline Range	9	
Client ID: PBS	Batch ID:	71800		RunNo: 9	2974				
Prep Date: 12/1/2022	Analysis Date:	12/2/2022		SeqNo: 3	348400	Units: mg/h	٢g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5 890	0 1000		88.9	37.7	212			
Sample ID: Ics-71800	SampType: I	CS	Te	stCode: E	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batch ID:	1800		RunNo: 9	2974				
Prep Date: 12/1/2022	Analysis Date:	12/2/2022		SeqNo: 3	348401	Units: mg/k	٢g		
Analyte	Result PQI	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.		0	85.2	72.3	137			
Surr: BFB	1800	1000		179	37.7	212			
Sample ID: 2211e59-012ams	SampType:	IS	Tes	stCode: E	PA Method	8015D: Gaso	line Range)	
Client ID: S15A 1.5'	Batch ID: 7	1800	l	RunNo: 9	2974				
Prep Date: 12/1/2022	Analysis Date:	12/2/2022	3	SeqNo: 3	348403	Units: mg/K	۲g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 4.		0	102	70	130			
Surr: BFB	2000	972.8		202	37.7	212			
Sample ID: 2211e59-012amsd	SampType: N	ISD	Tes	stCode: El	PA Method	8015D: Gaso	line Range		
Client ID: S15A 1.5'	Batch ID: 7	1800	F	RunNo: 9	2974				
Prep Date: 12/1/2022	Analysis Date:	12/2/2022	;	SeqNo: 3	348404	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 4.	9 24.34	0	96.6	70	130	5.58	20	
Surr: BFB	1900	973.7		194	37.7	212	0	0	
Sample ID: Ics-71799	SampType: L	CS	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 7	1799	F	RunNo: 93	3006				
Prep Date: 12/1/2022	Analysis Date:	2/3/2022	5	SeqNo: 3	349304	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0	25.00	0	84.6	72.3	137			
Surr: BFB	2100	1000		206	37.7	212			
Sample ID: mb-71799	SampType: N	BLK	Tes	tCode: EF	A Method	8015D: Gasol	line Range		
Client ID: PBS	Batch ID: 7	1799	F	RunNo: 93	3006				
Prep Date: 12/1/2022	Analysis Date:	2/3/2022	5	SeqNo: 33	349305	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Н

ND

S

Received by OCD: 1/11/2023 9:05:28 AM

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

Not Detected at the Reporting Limit

В Analyte detected in the associated Method Blank Е Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

- Holding times for preparation or analysis exceeded
- Р Sample pH Not In Range

J

Reporting Limit RL

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PQL Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated.

-

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Chess

Sample ID: mb-71799	SampT	ype: MB	LK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	n ID: 717	'99	F	RunNo: 93	8006				
Prep Date: 12/1/2022	Analysis D	ate: 12	/3/2022	5	SeqNo: 33	49305	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	940		1000		93.8	37.7	212			

Qualifiers:

Value exceeds Maximum Contaminant Level.

- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit S
 - % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank В Above Quantitation Range/Estimated Value Ε
- Analyte detected below quantitation limits J
- Sample pH Not In Range
- P **Reporting Limit**
- RL

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08-Dec-22

Project:

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Uncle Chess

Sample ID: mb-71800 SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS		ch ID: 71			RunNo: 9		00210. 0010	100		
Prep Date: 12/1/2022	Analysis				SeqNo: 3		Units: mg/Kg			
Fiep Date. 12/1/2022	Analysis	Date. 1	21212022			3464/1	Units. mg/r	Ŋ		
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	0.92		1.000		92.0	70	130			
Sample ID: LCS-71800	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 71	800	F	RunNo: 92974					
Prep Date: 12/1/2022	Analysis I	Date: 12	2/2/2022	S	SeqNo: 3	348472	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			
Sample ID: 2211e59-013ams	Samp	Гуре: MS		Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: S18A 1.5'	Batc	h ID: 718	800	F	RunNo: 92	2974				
Prep Date: 12/1/2022	Analysis [Date: 12	/3/2022	5	SeqNo: 33	348475	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9542	0.01288	102	68.8	120			
Toluene	1.0	0.048	0.9542	0.01212	107	73.6	124			
Ethylbenzene	1.0	0.048	0.9542	0.01260	108	72.7	129			
Xylenes, Total	3.1	0.095	2.863	0.01975	109	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9542		95.5	70	130			
Sample ID: 2211e59-013amsd	SampT	ype: MS	D	Test	Code: EP	A Method 8	3021B: Volati	es		
Client ID: S18A 1.5'	Batch	n ID: 718	00	R	unNo: 92	974				
Prep Date: 12/1/2022	Analysis D)ate: 12/	3/2022	s	eqNo: 33	48476	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

> > Not Detected at the Reporting Limit

- Analyte de
- Р Sample pH Not In Range
- Reporting Limit

WO#: 2211E59

08-Dec-22

Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	70	130			
Sample ID: 2211e59-013ams	Samp	Туре: М	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: S18A 1.5'	Bato	h ID: 71	800	F	RunNo: 92	2974				
Prep Date: 12/1/2022	Analysis I	Date: 12	2/3/2022	5	SeqNo: 3	348475	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9542	0.01288	102	68.8	120			
Toluene	1.0	0.048	0.9542	0.01212	107	73.6	124			
Ethylbenzene	1.0	0.048	0.9542	0.01260	108	72.7	129			
Xylenes, Total	3.1	0.095	2.863	0.01975	109	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9542		95.5	70	130			
Sample ID: 2211e59-013amsd	Samp	Type: MS	D	Tes	tCode: EF	A Method	8021B: Volati	les		
										1
Client ID: S18A 1.5'	Batc	h ID: 718	300	F	unNo: 92	974				
Client ID: S18A 1.5' Prep Date: 12/1/2022	Batc Analysis [tunNo: 92 SeqNo: 33		Units: mg/K	g		
			/3/2022				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 12/1/2022 Analyte	Analysis [Date: 12	/3/2022	S	SeqNo: 33	48476		-	RPDLimit 20	Qual
Prep Date: 12/1/2022 Analyte Benzene	Analysis [Result	Date: 12 PQL	/3/2022 SPK value	SPK Ref Val	eqNo: 33 %REC	48476 LowLimit	HighLimit	%RPD		Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene	Analysis I Result 1.0	Date: 12 PQL 0.024	/3/2022 SPK value 0.9542	SPK Ref Val 0.01288	eqNo: 33 %REC 103	68.8	HighLimit 120	%RPD 1.55	20	Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene Ethylbenzene	Analysis I Result 1.0 1.0	Date: 12 PQL 0.024 0.048	/3/2022 SPK value 0.9542 0.9542	SPK Ref Val 0.01288 0.01212	SeqNo: 33 %REC 103 106	48476 LowLimit 68.8 73.6	HighLimit 120 124	%RPD 1.55 0.735	20 20	Qual
Prep Date: 12/1/2022	Analysis I Result 1.0 1.0 1.0	Date: 12 PQL 0.024 0.048 0.048	/3/2022 SPK value 0.9542 0.9542 0.9542	SPK Ref Val 0.01288 0.01212 0.01260	eqNo: 33 %REC 103 106 108	LowLimit 68.8 73.6 72.7	HighLimit 120 124 129	%RPD 1.55 0.735 0.458	20 20 20	Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis I Result 1.0 1.0 1.0 3.1	Date: 12 PQL 0.024 0.048 0.048	/3/2022 SPK value 0.9542 0.9542 0.9542 2.863	SPK Ref Val 0.01288 0.01212 0.01260	SeqNo: 33 %REC 103 106 108 108	448476 LowLimit 68.8 73.6 72.7 75.7	HighLimit 120 124 129 126	%RPD 1.55 0.735 0.458 0.967	20 20 20 20	Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis I Result 1.0 1.0 1.0 3.1	Date: 12 PQL 0.024 0.048 0.048	/3/2022 SPK value 0.9542 0.9542 0.9542 2.863	SPK Ref Val 0.01288 0.01212 0.01260	SeqNo: 33 %REC 103 106 108 108	448476 LowLimit 68.8 73.6 72.7 75.7	HighLimit 120 124 129 126	%RPD 1.55 0.735 0.458 0.967	20 20 20 20	Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Qualifiers: * Value exceeds Maximum Contaminant	Analysis I Result 1.0 1.0 1.0 3.1 0.90	Date: 12 PQL 0.024 0.048 0.048	/3/2022 SPK value 0.9542 0.9542 0.9542 2.863	SPK Ref Val 0.01288 0.01212 0.01260 0.01975	SeqNo: 33 %REC 103 106 108 108 94.8	448476 LowLimit 68.8 73.6 72.7 75.7	HighLimit 120 124 129 126 130	%RPD 1.55 0.735 0.458 0.967	20 20 20 20	Qual
Prep Date: 12/1/2022 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Analysis I <u>Result</u> 1.0 1.0 1.0 3.1 0.90 :Level.	Date: 12 PQL 0.024 0.048 0.048	/3/2022 SPK value 0.9542 0.9542 0.9542 2.863	SPK Ref Val 0.01288 0.01212 0.01260 0.01975	SeqNo: 33 %REC 103 106 108 108 94.8 sected in the assistitation Range	248476 LowLimit 68.8 73.6 72.7 75.7 70	HighLimit 120 124 129 126 130 Blank	%RPD 1.55 0.735 0.458 0.967	20 20 20 20	Qual

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

- RL

Client: R & R Environmental

Project: Uncle Chess

riojeci.	Olicie Ch	1035									
Sample ID:	Ics-71799 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID:	LCSS	Bato	h ID: 71	799	1						
Prep Date:	12/1/2022	Analysis I	Date: 12	2/3/2022		SeqNo: 3	349398	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.88	0.025	1.000	0	88.4	80	120			
Toluene		0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene		0.88	0.050	1.000	0	87.9	80	120			
Xylenes, Total		2.6 0.10 3.000 0 87.4 80 120									
Surr: 4-Brom								130			
Sample ID:	mb-71799	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 717	799	F	RunNo: 9	3006				
Prep Date:	12/1/2022	Analysis [Date: 12	2/3/2022	022 SeqNo: 3349399 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-Bromo	ofluorobenzene	0.94		1.000		93.9	70	130			
Sample ID:	2211E59-001ams	SampT	ype: MS	i.	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	S1A 5'	Batch	n ID: 717	99	F	RunNo: 93	3006				
Prep Date:	12/1/2022	Analysis D	Date: 12	/3/2022	S	SeqNo: 33	349410	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	0.9843	0	99.6	68.8	120			
Toluene		0.99	0.049	0.9843	0	101	73.6	124			
Ethylbenzene		0.99	0.049	0.9843	0	101	72.7	129			
Kylenes, Total		3.0	0.098	2.953	0	101	75.7	126			
Surr: 4-Bromo	fluorobenzene	0.95		0.9843		96.4	70	130			
Sample ID: 2	2211E59-001amsd	SampT	ype: MS	D	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID:	S1A 5'	Batch	n ID: 717	99	R	lunNo: 93	006				
Prep Date:	12/1/2022	Analysis D	ate: 12/	3/2022	S	eqNo: 33	49411	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	0.9881	0	102	68.8	120	2.57	20	
oluene		1.0	0.049	0.9881	0	103	73.6	124	2.27	20	
thylbenzene		1.0	0.049	0.9881	0	103	72.7	129	2.58	20	
ylenes, Total		3.0	0.099	2.964	0	102	75.7	126	2.22	20	
Surr: 4-Bromot	fluorobenzene	0.95		0.9881		96.1	70	130	0	0	

н

ND

PQL

S

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

Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank В E

Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- Sample pH Not In Range Р RL
 - Reporting Limit

Page 21 of 21

Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. WO#: 2211E59

08-Dec-22

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-:	ental Analysis Labord 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345-4 w.hallenvironmental	s NE 7109 Sam 4107	Sample Log-In Check List					
Client Name: R & R Environmental	Work Order Num	ber: 2211E59		RcptNo: 1					
Received By: Sean Livingston	11/30/2022 7:40:00	D AM	Sala	joh-					
Completed By: Sean Livingston	11/30/2022 9:06:0	5 AM	Sala	tot					
Reviewed By: TML	11 230/23								
Chain of Custody									
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present					
2. How was the sample delivered?		Courier							
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	No 🗌						
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆						
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌						
6. Sufficient sample volume for indicated test(s)	?	Yes 🔽	No 🗌						
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌						
8. Was preservative added to bottles?		Yes 🛛	No 🗹	na 🗆					
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes 🗌	No 🗆	NA 🗹					
10. Were any sample containers received broker	1?	Yes	No 🗹	# of preserved					
11 0		v [7		bottles checked for pH:					
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹			unless noted)				
12. Are matrices correctly identified on Chain of C	Custody?	Yes 🗹	No 🗌	Adjusted?					
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	Checked by:	11.2000				
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No 🗌 💆	Checked by ANA	100.40				
Special Handling (if applicable)									
15. Was client notified of all discrepancies with the	is order?	Yes	No 🗌	NA 🗹					
Person Notified:	Date:		NATION CONTRACTOR OF THE						
By Whom:	Via:	🗌 eMail 📋 Ph	none 🗌 Fax 🛛	In Person					
Regarding:			<u>volenteraturationalista</u>						
Client Instructions: 16. Additional remarks:									
17. <u>Cooler Information</u> <u>Cooler No</u> Temp ^o C Condition Sea 1 0.7 Good	al Intact Seal No	Seal Date	Signed By						

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Client	104	4 CULIRONARI	L'Ar		Standard	Rush_	S-Dury				SIS	LABO	AALL ENVIKONMENIAL ANALYSIS LABORATORY	AL	
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Date	Time	Matrix	Sample Name	Name	Container Type and #	Preservative Type	HEAL NO.	X3T8 8:H9T 8:831 I) 803 eHag	G) E' BCB∿	8260	0728 IstoT			-
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	lf necessa	ary, samples su	ubmitted to Hall	l Environmental may be su	ibcontracted to other	accredited laborat	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.	s possibility. An	y sub-contra	cted data w	ll be clearly	notated on th	he analytical rep	jų.	l

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Mailing	Mailing Address:			Uncle	Ches			4901 F	Jawkin	S NE	- Albu	iquerc	ine, Ni	4901 Hawkins NE - Albuquerque, NM 87109			
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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

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

December 09, 2022

Rebecca Pons R & R Environmental 1505 W. Bullock Ave Artesia, NM 88210 TEL: (575) 616-9340 FAX:

OrderNo.: 2212005

Released to Imaging: 2/1/2023 11:04:50 AM

Uncle Ches TB

RE:

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 18 sample(s) on 12/1/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 12/9/2022

12/3/2022 6:34:12 AM

71800

CLIENT: Project: Lab ID:	R & R Environmental Uncle Ches TB 2212005-001	Matrix: SOIL			e: 11.	V-1 /28/2022 2:00:00 PM /1/2022 7:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 5:14:41 AM	71860
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 10:06:18 AM	71834
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 10:06:18 AM	71834
Surr: D	NOP	98.2	21-129	%Rec	1	12/5/2022 10:06:18 AM	71834
EPA MET	HOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 6:34:12 AM	71800
Surr: B	FB	84.8	37.7-212	%Rec	1	12/3/2022 6:34:12 AM	71800
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.024	mg/Kg	1	12/3/2022 6:34:12 AM	71800
Toluene		ND	0.048	mg/Kg	1	12/3/2022 6:34:12 AM	71800
Ethylbenz	ene	ND	0.048	mg/Kg	1	12/3/2022 6:34:12 AM	71800
Xylenes, 7	Fotal	ND	0.095	mg/Kg	1	12/3/2022 6:34:12 AM	71800

88.5

70-130

%Rec

1

Hall Environmental Analysis Laboratory, Inc.

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

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

Surr: 4-Bromofluorobenzene

- н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Above Quantitation Range/Estimated Value Е J
 - Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 24

12/3/2022 6:57:33 AM

71800

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71800

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & I	R Environmental		Cl	ient Sample I	D: S\	W-2	
Project: Uncle	e Ches TB		(Collection Da	te: 11	/28/2022 2:05:00 PM	
Lab ID: 2212	005-002	Matrix: SOI	L	Received Da	te: 12	/1/2022 7:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD	300.0: ANIONS					Analyst	: JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 5:27:06 AM	71860
EPA METHOD	8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	DGH
Diesel Range Or	ganics (DRO)	ND	15	mg/Kg	1	12/5/2022 10:47:47 AM	71834
Motor Oil Range	Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 10:47:47 AM	71834
Surr: DNOP		96.8	21-129	%Rec	1	12/5/2022 10:47:47 AM	71834
EPA METHOD 8	8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range	Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 6:57:33 AM	71800

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ND

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91.5

37.7-212

0.024

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0.095

70-130

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

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

* **Qualifiers:**

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

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
- PQL Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value E Analyte detected below quantitation limits J
- Р Sample pH Not In Range RL
- Reporting Limit

Page 2 of 24

Date Reported: 12/9/2022

12/3/2022 7:20:52 AM

71800

CLIENT:	R & R Environmental		Cl	ient Sample II	D: SV	W-3	
Project:	Uncle Ches TB		(Collection Dat	e: 11.	/28/2022 2:10:00 PM	
Lab ID:	2212005-003	Matrix: SOIL		Received Dat	e: 12	/1/2022 7:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT
Chloride		ND	61	mg/Kg	20	12/6/2022 5:39:31 AM	71860
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	61	15	mg/Kg	1	12/5/2022 11:01:23 AM	71834
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 11:01:23 AM	71834
Surr: D	NOP	96.4	21-129	%Rec	1	12/5/2022 11:01:23 AM	71834
EPA MET	HOD 8015D: GASOLINE RANGE	i i				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 7:20:52 AM	71800
Surr: B	FB	86.2	37.7-212	%Rec	1	12/3/2022 7:20:52 AM	71800
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	12/3/2022 7:20:52 AM	71800
Toluene		ND	0.047	mg/Kg	1	12/3/2022 7:20:52 AM	71800
Ethylbenz	ene	ND	0.047	mg/Kg	1	12/3/2022 7:20:52 AM	71800
Xylenes, 7	Fotal	ND	0.095	mg/Kg	1	12/3/2022 7:20:52 AM	71800

90.3

70-130

%Rec

1

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

* Value exceeds Maximum Contaminant Level. Qualifiers:

Surr: 4-Bromofluorobenzene

D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL

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

- Analyte detected in the associated Method Blank в
- Ε Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Limit

Р

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CLIENT:	R & R Environmental		Cl	ient Sa	ample II	D: SV	V-5	
Project:	Uncle Ches TB		(Collect	ion Dat	e: 11/	/28/2022 2:15:00 PM	
Lab ID:	2212005-004	Matrix: SOIL		Recei	ved Dat	e: 12/	/1/2022 7:35:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	JTT
Chloride		ND	60		mg/Kg	20	12/6/2022 11:57:18 AM	71864
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	DGH
Diesel Ra	inge Organics (DRO)	1200	150		mg/Kg	10	12/5/2022 10:19:19 AM	71834
Motor Oil	Range Organics (MRO)	500	490		mg/Kg	10	12/5/2022 10:19:19 AM	71834
Surr: D	NOP	0	21-129	S	%Rec	10	12/5/2022 10:19:19 AM	71834
EPA MET	HOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline I	Range Organics (GRO)	ND	4.6		mg/Kg	1	12/3/2022 7:44:12 AM	71800
Surr: B	FB	120	37.7-212		%Rec	1	12/3/2022 7:44:12 AM	71800
EPA MET	HOD 8021B: VOLATILES						Analyst:	NSB
Benzene		ND	0.023		mg/Kg	1	12/3/2022 7:44:12 AM	71800
Toluene		ND	0.046		mg/Kg	1	12/3/2022 7:44:12 AM	71800
Ethylbenzo	ene	ND	0.046		mg/Kg	1	12/3/2022 7:44:12 AM	71800
Xylenes, T	otal	ND	0.093		mg/Kg	1	12/3/2022 7:44:12 AM	71800
Surr: 4-	Bromofluorobenzene	93.2	70-130		%Rec	1	12/3/2022 7:44:12 AM	71800

Hall Environmental Analysis Laboratory, Inc.

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
 - Not Detected at the Reporting Limit ND
 - PQL Practical Quanitative Limit
 - % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Limit

P

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Analytical Report
Lab Order 2212005
Date Reported: 12/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental		Cli	ient Sample II	D: SV	V-6	
Project: Uncle Ches TB		0	Collection Date	e: 11	/28/2022 2:20:00 PM	
Lab ID: 2212005-005	Matrix: SOIL		Received Date	e: 12	/1/2022 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	12/6/2022 12:34:32 PM	71864
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 11:15:32 AM	71834
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/5/2022 11:15:32 AM	71834
Surr: DNOP	98.2	21-129	%Rec	1	12/5/2022 11:15:32 AM	71834
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2022 8:07:33 AM	71800
Surr: BFB	88.0	37.7-212	%Rec	1	12/3/2022 8:07:33 AM	71800
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	12/3/2022 8:07:33 AM	71800
Toluene	ND	0.050	mg/Kg	1	12/3/2022 8:07:33 AM	71800

ND

ND

92.2

0.050

0.099

70-130

mg/Kg

mg/Kg

%Rec

1

1

1

12/3/2022 8:07:33 AM

12/3/2022 8:07:33 AM

12/3/2022 8:07:33 AM

71800

71800

71800

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

* Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- 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 PQL
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
- Sample pH Not In Range Р RL Reporting Limit

Analytical Report Lab Order 2212005

Date Reported: 12/9/2022

CLIENT:	R & R Environmental		Cl	ient Sample II	D: S\	N-7	
Project:	Uncle Ches TB		(Collection Dat	e: 11	/28/2022 2:25:00 PM	
Lab ID:	2212005-006	Matrix: SOIL	,	Received Dat	e: 12	/1/2022 7:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 1:36:34 PM	71864
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	DGH
Diesel Ra	nge Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 11:29:38 AM	71834
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	12/5/2022 11:29:38 AM	71834
Surr: D	NOP	97.2	21-129	%Rec	1	12/5/2022 11:29:38 AM	71834
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline I	Range Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2022 8:30:54 AM	71800
Surr: B	FB	87.4	37.7-212	%Rec	1	12/3/2022 8:30:54 AM	71800
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.025	mg/Kg	1	12/3/2022 8:30:54 AM	71800
Toluene		ND	0.050	mg/Kg	1	12/3/2022 8:30:54 AM	71800
Ethylbenze	ene	ND	0.050	mg/Kg	1	12/3/2022 8:30:54 AM	71800
Xylenes, T	otal	ND	0.099	mg/Kg	1	12/3/2022 8:30:54 AM	71800
Surr: 4-	Bromofluorobenzene	90.3	70-130	%Rec	1	12/3/2022 8:30:54 AM	71800

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

Hall Environmental Analysis Laboratory, Inc.

- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank В Above Quantitation Range/Estimated Value E
- J
 - Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/9/2022
Client Sample ID: SW-8

Project:	Uncle Ches TB		(Collection Dat	e: 11	/28/2022 2:30:00 PM	
Lab ID:	2212005-007	Matrix: SOIL	4	Received Dat	e: 12	/1/2022 7:35:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analysi	: JTT
Chloride		ND	60	mg/Kg	20	12/6/2022 1:48:58 PM	71864
EPA MET	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	DGH
Diesel Ra	ange Organics (DRO)	53	15	mg/Kg	1	12/5/2022 11:43:39 AM	71834
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	12/5/2022 11:43:39 AM	71834
Surr: D	NOP	98.7	21-129	%Rec	1	12/5/2022 11:43:39 AM	71834
EPA MET	HOD 8015D: GASOLINE F	RANGE				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 8:54:16 AM	71800
Surr: B	FB	87.0	37.7-212	%Rec	1	12/3/2022 8:54:16 AM	71800
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.024	mg/Kg	1	12/3/2022 8:54:16 AM	71800
Toluene		ND	0.048	mg/Kg	1	12/3/2022 8:54:16 AM	71800
Ethylbenz	ene	ND	0.048	mg/Kg	1	12/3/2022 8:54:16 AM	71800
Xylenes,	Total	ND	0.097	mg/Kg	1	12/3/2022 8:54:16 AM	71800
Surr: 4-	-Bromofluorobenzene	90.1	70-130	%Rec	1	12/3/2022 8:54:16 AM	71800

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

* 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
 - Sample pH Not In Range
- P Sample pH Not In RL Reporting Limit

CLIENT: R & R Environmental

Qualifiers:

12/3/2022 9:17:37 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental	Client Sample ID: BG-1 0'								
Project:	Uncle Ches TB	Collection Date: 11/28/2022 2:40:00 PM								
Lab ID:	2212005-008	Matrix: SOIL	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT			
Chloride		ND	60	mg/Kg	20	12/6/2022 2:01:23 PM	71864			
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	DGH			
Diesel Ra	ange Organics (DRO)	ND	13	mg/Kg	1	12/5/2022 12:11:33 PM	71834			
Motor Oil	Range Organics (MRO)	ND	44	mg/Kg	1	12/5/2022 12:11:33 PM	71834			
Surr: D	NOP	105	21-129	%Rec	1	12/5/2022 12:11:33 PM	71834			
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	NSB			
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	12/3/2022 9:17:37 AM	71800			

88.2

ND

ND

ND

ND

91.9

37.7-212

0.023

0.046

0.046

0.092

70-130

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

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

* **Qualifiers:**

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

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
- PQL Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value Analyte detected below quantitation limits J
 - Sample pH Not In Range
- P RL Reporting Limit

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Released to Imaging: 2/1/2023 11:04:50 AM

71800

71800

71800

71800

71800

71800

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental

Project: Lab ID:

Uncle Ches TB

2212005-009

Client Sample ID: BG-2 0' Collection Date: 11/28/2022 2:45:00 PM Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JTT
Chloride	ND	60	mg/Kg	20	12/6/2022 2:13:47 PM	71864
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 12:25:28 PM	71834
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 12:25:28 PM	71834
Surr: DNOP	112	21-129	%Rec	1	12/5/2022 12:25:28 PM	71834
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 10:51:10 AM	71803
Surr: BFB	87.1	37.7-212	%Rec	1	12/3/2022 10:51:10 AM	71803
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	12/3/2022 10:51:10 AM	71803
Toluene	ND	0.047	mg/Kg	1	12/3/2022 10:51:10 AM	71803
Ethylbenzene	ND	0.047	mg/Kg	1	12/3/2022 10:51:10 AM	71803
Xylenes, Total	ND	0.094	mg/Kg	1	12/3/2022 10:51:10 AM	71803
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	12/3/2022 10:51:10 AM	71803

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 POL
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit

12/6/2022 2:26:11 PM

12/5/2022 12:39:26 PM 71834

12/5/2022 12:39:26 PM 71834

12/5/2022 12:39:26 PM 71834

12/3/2022 12:48:31 PM 71803

12/3/2022 12:48:31 PM

Analyst: JTT

Analyst: DGH

Analyst: NSB

Analyst: NSB

71803

71864

Date Reported: 12/9/2022

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

5	Result	RL Qual Units DF Date Analyzed Batch
2212005-010	Matrix: SOIL	Received Date: 12/1/2022 7:35:00 AM
Uncle Ches TB		Collection Date: 11/28/2022 2:50:00 PM
R & R Environmental		Client Sample ID: BG-3 0'

60

15

50

4.9

21-129

37.7-212

0.024

0.049

0.049

0.098

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

20

1

1

1

1

1

1

1

1

1

1

ND

ND

ND

95.2

ND

89.2

ND

ND

ND

ND

90.8

Refer to the QC Summar	y report and sample login	checklist for flagged Q	C data and	preservation information.
------------------------	---------------------------	-------------------------	------------	---------------------------

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 ND
- POL Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- Ε Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Project: Lab ID:

Analyses

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 300.0: ANIONS

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

EPA METHOD 8015D: GASOLINE RANGE

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CLIENT:	R & R Environmental	Client Sample ID: BG-4 0'							
Project:	Uncle Ches TB	Collection Date: 11/28/2022 2:55:00 PM							
Lab ID:	2212005-011	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS					Analyst	JTT		
Chloride		ND	60	mg/Kg	20	12/6/2022 2:38:36 PM	71864		
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	DGH		
Diesel Ra	ange Organics (DRO)	ND	13	mg/Kg	1	12/5/2022 12:53:21 PM	71834		
Motor Oil	Range Organics (MRO)	ND	44	mg/Kg	1	12/5/2022 12:53:21 PM	71834		
Surr: E	DNOP	108	21-129	%Rec	1	12/5/2022 12:53:21 PM	71834		
EPA MET	HOD 8015D: GASOLINE RANG	BE				Analyst	NSB		
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	12/3/2022 1:59:04 PM	71803		
Surr: E	3FB	88.8	37.7-212	%Rec	1	12/3/2022 1:59:04 PM	71803		
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB		
Benzene		ND	0.024	mg/Kg	1	12/3/2022 1:59:04 PM	71803		
Toluene		ND	0.048	mg/Kg	1	12/3/2022 1:59:04 PM	71803		
Ethylbenz	zene	ND	0.048	mg/Kg	1	12/3/2022 1:59:04 PM	71803		
Xylenes,	Total	ND	0.096	mg/Kg	1	12/3/2022 1:59:04 PM	71803		
Surr: 4	-Bromofluorobenzene	91.2	70-130	%Rec	1	12/3/2022 1:59:04 PM	71803		

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

Hall Environmental Analysis Laboratory, Inc.

- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
 - Sample pH Not In Range
- Р RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental

Uncle Ches TB

2212005-012

Project:

Lab ID:

Client Sample ID: S-4A 1.5' Collection Date: 11/29/2022 11:30:00 AM Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JTT
Chloride	ND	60	mg/Kg	20	12/6/2022 3:15:50 PM	71876
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/5/2022 1:07:19 PM	71834
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/5/2022 1:07:19 PM	71834
Surr: DNOP	93.4	21-129	%Rec	1	12/5/2022 1:07:19 PM	71834
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/3/2022 2:22:37 PM	71803
Surr: BFB	89.1	37.7-212	%Rec	1	12/3/2022 2:22:37 PM	71803
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	12/3/2022 2:22:37 PM	71803
Toluene	ND	0.049	mg/Kg	1	12/3/2022 2:22:37 PM	71803
Ethylbenzene	ND	0.049	mg/Kg	1	12/3/2022 2:22:37 PM	71803
Xylenes, Total	ND	0.099	mg/Kg	1	12/3/2022 2:22:37 PM	71803
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	12/3/2022 2:22:37 PM	71803

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
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В Above Quantitation Range/Estimated Value
- Е Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit
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12/3/2022 2:46:09 PM

71803

71803

71803

71803

71803

71803

71803

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	R & R Environmental	Client Sample ID: S-8A 1.5'							
Project:	Uncle Ches TB	Collection Date: 11/29/2022 11:35:00 AM							
Lab ID:	2212005-013	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM							
Analyses		R	esult	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS							Analyst	JTT
Chloride			ND	61		mg/Kg	20	12/6/2022 3:28:15 PM	71876
EPA MET	THOD 8015M/D: DIESEL RANG	GE ORGANIO	CS					Analyst	DGH
Diesel Ra	ange Organics (DRO)		22	14		mg/Kg	1	12/5/2022 1:21:11 PM	71834
Motor Oil	Range Organics (MRO)		ND	47		mg/Kg	1	12/5/2022 1:21:11 PM	71834
Surr: D	NOP		99.5	21-129		%Rec	1	12/5/2022 1:21:11 PM	71834
EPA MET	HOD 8015D: GASOLINE RAN	GE						Analyst:	NSB

ND

90.1

ND

ND

ND

ND

92.5

4.8

37.7-212

0.024

0.048

0.048

0.097

70-130

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

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

*

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank В Above Quantitation Range/Estimated Value Е
- Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit

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CLIENT:	R & R Environmental	Client Sample ID: S-11A 1.5'								
Project:	Uncle Ches TB	Collection Date: 11/29/2022 11:40:00 AM								
Lab ID:	2212005-014	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM								
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT			
Chloride		ND	60	mg/Kg	20	12/6/2022 4:05:29 PM	71876			
EPA MET	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst	DGH				
Diesel Ra	nge Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 1:35:05 PM	71834			
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 1:35:05 PM	71834			
Surr: D	NOP	99.2	21-129	%Rec	1	12/5/2022 1:35:05 PM	71834			
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst	NSB			
Gasoline I	Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 3:09:36 PM	71803			
Surr: B	FB	91.5	37.7-212	%Rec	1	12/3/2022 3:09:36 PM	71803			
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB			
Benzene		ND	0.024	mg/Kg	1	12/3/2022 3:09:36 PM	71803			
Toluene		ND	0.047	mg/Kg	1	12/3/2022 3:09:36 PM	71803			
Ethylbenze	ene	ND	0.047	mg/Kg	1	12/3/2022 3:09:36 PM	71803			
Xylenes, T	otal	ND	0.094	mg/Kg	1	12/3/2022 3:09:36 PM	71803			
Surr: 4-	Bromofluorobenzene	94.7	70-130	%Rec	1	12/3/2022 3:09:36 PM	71803			

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

Received by OCD: 1/11/2023 9:05:28 AM

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
 - Analyte detected below quantitat Sample pH Not In Range
- P Sample pH Not In Ran RL Reporting Limit

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CLIENT:	R & R Environmental	Client Sample ID: S-12A 1.5'							
Project:	Uncle Ches TB	Collection Date: 11/29/2022 11:45:00 AM							
Lab ID:	2212005-015	Matrix: SOIL	8	Received Dat	e: 12	/1/2022 7:35:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analys	JTT		
Chloride		ND	60	mg/Kg	20	12/6/2022 4:17:54 PM	71876		
EPA MET	HOD 8015M/D: DIESEL RANGE	EL RANGE ORGANICS Analys				Analyst	DGH		
Diesel Ra	ange Organics (DRO)	ND	15	mg/Kg	1	12/5/2022 1:49:06 PM	71834		
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	12/5/2022 1:49:06 PM	71834		
Surr: D	NOP	103	21-129	%Rec	1	12/5/2022 1:49:06 PM	71834		
EPA MET	HOD 8015D: GASOLINE RANGE	E				Analyst	NSB		
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	12/3/2022 3:33:05 PM	71803		
Surr: B	FB	90.2	37.7-212	%Rec	1	12/3/2022 3:33:05 PM	71803		
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB		
Benzene		ND	0.024	mg/Kg	1	12/3/2022 3:33:05 PM	71803		
Toluene		ND	0.049	mg/Kg	1	12/3/2022 3:33:05 PM	71803		
Ethylbenz	ene	ND	0.049	mg/Kg	1	12/3/2022 3:33:05 PM	71803		
Xylenes, 7	Total	ND	0.097	mg/Kg	1	12/3/2022 3:33:05 PM	71803		
Surr: 4-	Bromofluorobenzene	92.9	70-130	%Rec	1	12/3/2022 3:33:05 PM	71803		

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

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix н Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

ND Not Detected at the Reporting Limit

Practical Quanitative Limit PQL

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

- Analyte detected in the associated Method Blank в
- E Above Quantitation Range/Estimated Value J
 - Analyte detected below quantitation limits
- Р Sample pH Not In Range RL

Reporting Limit

Released to Imaging: 2/1/2023 11:04:50 AM

Qualifiers:

Analytical Report
Lab Order 2212005
Date Reported: 12/9/2022

Analyst: NSB

Analyst: NSB

71803

71803

71803

71803

71803

71803

71803

12/3/2022 3:56:37 PM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8021B: VOLATILES

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	R & R Environmental	Client Sample ID: S-16A 2'							
Project:	Uncle Ches TB	Collection Date: 11/29/2022 11:50:00 AM							
Lab ID:	2212005-016	Matrix: SOIL	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT		
Chloride		ND	60	mg/Kg	20	12/6/2022 4:30:18 PM	71876		
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	DGH		
Diesel Ra	inge Organics (DRO)	21	14	mg/Kg	1	12/5/2022 2:03:10 PM	71834		
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	12/5/2022 2:03:10 PM	71834		
Surr: D	NOP	105	21-129	%Rec	1	12/5/2022 2:03:10 PM	71834		

ND

89.8

ND

ND

ND

ND

92.2

5.0

37.7-212

0.025

0.050

0.050

70-130

0.10

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

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

- Н 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. S

- В Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Е J
 - Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report
Lab Order 2212005
Date Reported: 12/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	R & R Environmental	Client Sample ID: S-17A 2'										
Project:	Uncle Ches TB	Collection Date: 11/29/2022 11:55:00 AM										
Lab ID:	2212005-017	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM										
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analyst	: JTT					
Chloride		ND	60	mg/Kg	20	12/6/2022 4:42:43 PM	71876					
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH					
Diesel Ra	ange Organics (DRO)	ND	14	mg/Kg	1	12/5/2022 2:17:20 PM	71834					
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	12/5/2022 2:17:20 PM	71834					
Surr: D	NOP	92.5	21-129	%Rec	1	12/5/2022 2:17:20 PM	71834					
EPA MET	HOD 8015D: GASOLINE RANGE	Ξ				Analyst	NSB					
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	12/3/2022 4:20:04 PM	71803					
Surr: B	FB	89.1	37.7-212	%Rec	1	12/3/2022 4:20:04 PM	71803					
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB					
Benzene		ND	0.025	mg/Kg	1	12/3/2022 4:20:04 PM	71803					

ND

ND

ND

91.3

0.050

0.050

0.10

70-130

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

12/3/2022 4:20:04 PM

12/3/2022 4:20:04 PM

12/3/2022 4:20:04 PM

12/3/2022 4:20:04 PM

71803

71803

71803

71803

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

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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 ND
- POL Practical Quanitative Limit

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

- в Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL
 - Reporting Limit

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12/3/2022 4:43:32 PM

12/3/2022 4:43:32 PM

71803

71803

Hall Environmental Analysis Laboratory, Inc.

CLIENT: R & R Environmental	Client Sample ID: SW-4									
Project: Uncle Ches TB		C	Collection Date	e: 11	/29/2022 12:00:00 PM	[
Lab ID: 2212005-018	Matrix: SOIL	Matrix: SOIL Received Date: 12/1/2022 7:35:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JTT				
Chloride	ND	60	mg/Kg	20	12/6/2022 4:55:08 PM	71876				
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/5/2022 3:00:01 PM	71834				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/5/2022 3:00:01 PM	71834				
Surr: DNOP	97.1	21-129	%Rec	1	12/5/2022 3:00:01 PM	71834				
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/3/2022 4:43:32 PM	71803				
Surr: BFB	90.6	37.7-212	%Rec	1	12/3/2022 4:43:32 PM	71803				
EPA METHOD 8021B: VOLATILES					Analyst	NSB				
Benzene	ND	0.024	mg/Kg	1	12/3/2022 4:43:32 PM	71803				
Toluene	ND	0.047	mg/Kg	1	12/3/2022 4:43:32 PM	71803				
Ethylbenzene	ND	0.047	mg/Kg	1	12/3/2022 4:43:32 PM	71803				

ND

93.0

0.094

70-130

mg/Kg

%Rec

1

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

*

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- E Analyte detected below quantitation limits J
 - Sample pH Not In Range
- Р RL Reporting Limit
- Page 18 of 24

Xylenes, Total

Surr: 4-Bromofluorobenzene

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

R & R Environmental **Client:**

Project: Uncle Ches TB

	MB-71860	SampType: MBLK	TestCode: EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID: 71860	RunNo: 93034					
Prep Date:	12/5/2022	Analysis Date: 12/5/2022	SeqNo: 3350498 Units: mg/Kg					
Analyte			SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Chloride		ND 1.5						
Sample ID:	LCS-71860	SampType: LCS	TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 71860	RunNo: 93034					
Prep Date:	12/5/2022	Analysis Date: 12/5/2022	SeqNo: 3350499 Units: mg/Kg					
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Chloride		14 1.5 15.00	0 93.9 90 110					
Sample ID:	MB-71864	SampType: MBLK TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 71864	RunNo: 93070					
Prep Date:	12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351864 Units: mg/Kg					
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Chloride		ND 1.5						
Sample ID:	LCS-71864	SampType: LCS	TestCode: EPA Method 300.0: Anions					
	LCSS	Batch ID: 71864	RunNo: 93070					
Prep Date:	12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351865 Units: mg/Kg					
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Chloride		14 1.5 15.00	0 91.1 90 110					
Sample ID:	MB-71876	SampType: MBLK	TestCode: EPA Method 300.0: Anions					
	PBS	Batch ID: 71876	RunNo: 93070					
Prep Date:	12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351894 Units: mg/Kg					
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Chloride		ND 1.5						
Sample ID:	LCS-71876	SampType: LCS	TestCode: EPA Method 300.0: Anions					
-	LCSS	Batch ID: 71876	RunNo: 93070					
Prep Date:	12/6/2022	Analysis Date: 12/6/2022	SeqNo: 3351895 Units: mg/Kg					
			SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual					
Analyte Chloride		14 1.5 15.00	0 93.7 90 110					

н

ND

Received by OCD: 1/11/2023 9:05:28 AM

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

Not Detected at the Reporting Limit

Holding times for preparation or analysis exceeded

в Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

- Analyte detected below quantitation limits J
 - Sample pH Not In Range P
 - RL Reporting Limit

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WO#: 2212005

09-Dec-22

PQL Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated. S

WO#: 2212005

09-Dec-22

Client:	R & R Environmental												
Project:	Uncle Ch	es TB											
Sample ID:	MB-71834	SampT	Гуре: МІ	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID:	PBS	Batch	h ID: 71	834	RunNo: 93029								
Prep Date:	12/2/2022	Analysis D	Date: 12	2/5/2022	SeqNo: 3350297			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 Rang	e Organics (MRO)	ND	50										
Surr: DNOP		9.3		10.00		93.5	21	129					
Sample ID:	ample ID: LCS-71834 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics												
Client ID:	D: LCSS Batch ID: 71834				i	RunNo: 9	3029						
Prep Date:	12/2/2022	Analysis D	ate: 12	2/5/2022	:	SeqNo: 3	350298	Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	48	15	50.00	0	96.7	64.4	127					
Surr: DNOP		4.7		5.000		93.9	21	129					
Sample ID:	2212005-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics			
Client ID:	SW-1	Batch	ID: 718	834	F	RunNo: 93	3029						
Prep Date:	12/2/2022	Analysis D	ate: 12	2/5/2022	\$	SeqNo: 33	350300	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range O	rganics (DRO)	50	14	46.30	13.77	78.4	36.1	154					
Surr: DNOP		4.4		4.630		95.2	21	129					
Sample ID:	2212005-001AMSD	SampT	ype: MS	D	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics			
Client ID:	SW-1	Batch	ID: 718	334	F	RunNo: 93	8029						
Prep Date:	12/2/2022	Analysis Da	ate: 12	/5/2022	5	SeqNo: 33	350301	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range O	rganics (DRO)	50	14	47.89	13.77	75.8	36.1	154	0.0444	33.9			
		Contraction of the Contraction								-			

Qualifiers:

ND

PQL

S

Value exceeds Maximum Contaminant Level. D

Sample Diluted Due to Matrix Н Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank В Above Quantitation Range/Estimated Value Е

- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Released to Imaging: 2/1/2023 11:04:50 AM

Surr: DNOP 4.6 4.789 95.3 21 129 0 0

Not Detected at the Reporting Limit Practical Quanitative Limit % Recovery outside of standard limits. If undiluted results may be estimated.

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WO#: 2212005

Client:R & R EProject:Uncle C	nvironmen nes TB	tal										
Sample ID: mb-71800	SampT	уре: М	BLK	Te	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch	ı ID: 71	800		RunNo: 92974							
Prep Date: 12/1/2022	Analysis Date: 12/2/2022 SeqNo: 3348400						Units: mg/l	٨g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	890		1000		88.9	37.7	212					
Sample ID: Ics-71800	ple ID: Ics-71800 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range											
Client ID: LCSS	Batch	n ID: 71	B00		RunNo: 9	2974						
Prep Date: 12/1/2022	Analysis D	ate: 12	2/2/2022		SeqNo: 3348401 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.2	72.3	137					
Surr: BFB	1800		1000		179	37.7	212					
Sample ID: mb-71803	ID: mb-71803 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range											
Client ID: PBS	Batch	ID: 718	303	RunNo: 92974								
Prep Date: 12/1/2022	Analysis Date: 12/3/2022			:	SeqNo: 3	348424	Units: mg/k	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	870		1000		87.2	37.7	212					
Sample ID: Ics-71803	SampT	ype: LC	s	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch	ID: 718	803	RunNo: 92974								
Prep Date: 12/1/2022	Analysis Da	ate: 12	/3/2022	\$	SeqNo: 3	348425	Units: mg/k	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.9	72.3	137					
Surr: BFB	1700		1000		174	37.7	212					
Sample ID: 2212005-009ams	SampTy	/pe: MS		Tes	tCode: EF	PA Method	8015D: Gaso	line Range	E.			
Client ID: BG-2 0'	Batch	ID: 718	03	F	RunNo: 92	2974						
Prep Date: 12/1/2022	Analysis Da	ate: 12	/3/2022	5	SeqNo: 33	348427	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	21	4.7	23.32	0	91.1	70	130					
Surr: BFB	1700		932.8		186	37.7	212					
Sample ID: 2212005-009amsd	SampTy	pe: MS	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Range				
Client ID: BG-2 0'	Batch	ID: 718	03	F	RunNo: 92	2974						
Prep Date: 12/1/2022	Analysis Da	ate: 12/	3/2022	S	SeqNo: 3348428			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

Н

ND

PQL

S

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

Not Detected at the Reporting Limit

Practical Quanitative Limit

Holding times for preparation or analysis exceeded

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

Analyte detected in the associated Method Blank B E

Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: R & R Environmental

Project: Uncle Ches TB

Sample ID: 2212005-009amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BG-2 0'	Batch	ID: 718	803	RunNo: 92974						
Prep Date: 12/1/2022	Analysis Da	ate: 12	/3/2022	5	SeqNo: 33	348428	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.92	0	90.6	70	130	1.98	20	
Surr: BFB	1800		956.9		185	37.7	212	0	0	

S

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.
- 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
- RL Re

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WO#: 2212005 09-Dec-22

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: R & R Environmental

Project: Uncle Ches TB

Sample ID: mb-71800	SampType:	MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID:	71800		RunNo: 9	2974					
Prep Date: 12/1/2022	Analysis Date:	12/2/2022		SeqNo: 3	348471	Units: mg/Kg				
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND 0.0	25								
Toluene	ND 0.0	50								
Ethylbenzene	ND 0.0	50								
Xylenes, Total	ND 0.	10								
Surr: 4-Bromofluorobenzene	0.92	1.000		92.0	70	130				
Sample ID: LCS-71800	SampType:	LCS	Tes	stCode: EF	PA Method	8021B: Volati	les			
Client ID: LCSS	Batch ID:	71800	F	RunNo: 92974						
Prep Date: 12/1/2022	Analysis Date:	12/2/2022	:	SeqNo: 3	348472	Units: mg/K	g			
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91 0.02	25 1.000	0	91.0	80	120				
Foluene	0.93 0.05	50 1.000	0	92.7	80	120				
Ethylbenzene	0.92 0.05	50 1.000	0	91.6	80	120				
Kylenes, Total	2.8 0.1	0 3.000	0	92.8	80	120				
Surr: 4-Bromofluorobenzene	0.94	1.000		94.0	70	130				
Sample ID: mb-71803	SampType:	MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 71803 RunNo: 92974									
	Baton iB.		SeqNo: 3348495		Units: mg/Kg					
	Analysis Date:	12/3/2022	S	SeqNo: 33	48495	Units: mg/K	g			
Prep Date: 12/1/2022			SPK Ref Val	SeqNo: 33 %REC	48495 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual	
Prep Date: 12/1/2022 Analyte	Analysis Date:	SPK value					-	RPDLimit	Qual	
Prep Date: 12/1/2022 Analyte Benzene	Analysis Date: Result PQI	SPK value					-	RPDLimit	Qual	
Prep Date: 12/1/2022 Analyte Benzene Toluene	Analysis Date: Result PQI ND 0.02	SPK value					-	RPDLimit	Qual	
Prep Date: 12/1/2022 Analyte Benzene Foluene Sthylbenzene	Analysis Date: Result PQI ND 0.02 ND 0.05	SPK value 5 0					-	RPDLimit	Qual	
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Prep Date: 12/1/2022 Analyte Benzene Foluene Ethylbenzene Kylenes, Total Surr: 4-Bromofluorobenzene Sample ID: LCS-71803 Client ID: LCSS Prep Date: 12/1/2022 Analyte	Analysis Date: Result PQI ND 0.02 ND 0.05 ND 0.15 ND 0.11 0.91 SampType: I Batch ID: 7 Analysis Date: Result PQI	SPK value S S S S S S S S S S S K Value S S S S S S S S S S S S S S S S S S S	SPK Ref Val Tes F SPK Ref Val	91.4 91.4 tCode: EP RunNo: 92 SeqNo: 33 %REC	TowLimit 20 A Method 3 974 48496 LowLimit	HighLimit 130 8021B: Volati Units: mg/Kg HighLimit	%RPD	RPDLimit	Qual	
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* 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

PQL Practical Quanitative Limit S

в Analyte detected in the associated Method Blank

Е Above Quantitation Range/Estimated Value

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 24

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

WO#:

09-Dec-22

Client: R & R Environmental

Uncle Ches TB **Project:**

Sample ID: 2212005-010ams	Samp	Type: MS	5	TestCode: EPA Method 8021B: Volatiles						
Client ID: BG-3 0'	Batc	h ID: 718	B03	F	RunNo: 92					
Prep Date: 12/1/2022	Analysis [Date: 12	2/3/2022	S	SeqNo: 33	348499	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9852	0.01332	93.5	68.8	120			
Toluene	0.98	0.049	0.9852	0	99.1	73.6	124			
Ethylbenzene	0.98	0.049	0.9852	0	99.9	72.7	129			
Xylenes, Total	3.0	0.099	2.956	0.01939	99.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		0.9852		94.2	70	130			
Sample ID: 2212005-010amsd	Samp	Гуре: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Sample ID: 2212005-010amsd Client ID: BG-3 0'		Гуре: MS h ID: 718			tCode: EF RunNo: 92		8021B: Volati	les		
		h ID: 718	303	F		2974	8021B: Volati Units: mg/K			
Client ID: BG-3 0' Prep Date: 12/1/2022	Batcl	h ID: 718	303	F	RunNo: 92	2974			RPDLimit	Qual
Client ID: BG-3 0'	Batcl Analysis [h ID: 718 Date: 12	803 /3/2022	F	RunNo: 92 SeqNo: 33	2974 348500	Units: mg/K	g	RPDLimit 20	Qual
Client ID: BG-3 0' Prep Date: 12/1/2022 Analyte Benzene	Batcl Analysis I Result	h ID: 718 Date: 12	803 /3/2022 SPK value	F S SPK Ref Val	RunNo: 92 SeqNo: 33 %REC	2974 348500 LowLimit	Units: mg/K HighLimit	g %RPD		Qual
Client ID: BG-3 0' Prep Date: 12/1/2022 Analyte	Batcl Analysis I Result 0.91	h ID: 718 Date: 12 PQL 0.024	803 /3/2022 SPK value 0.9785	F SPK Ref Val 0.01332	RunNo: 92 SeqNo: 33 %REC 91.2	2974 348500 LowLimit 68.8	Units: mg/K HighLimit 120	g %RPD 3.21	20	Qual
Client ID: BG-3 0' Prep Date: 12/1/2022 Analyte Benzene Foluene	Batcl Analysis I Result 0.91 0.94	h ID: 718 Date: 12 PQL 0.024 0.049	803 /3/2022 SPK value 0.9785 0.9785	F SPK Ref Val 0.01332 0	RunNo: 92 SeqNo: 33 %REC 91.2 96.0	2974 348500 LowLimit 68.8 73.6	Units: mg/K HighLimit 120 124	g %RPD 3.21 3.80	20 20	Qual

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Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit S

- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank в Above Quantitation Range/Estimated Value Е
- Analyte detected below quantitation limits
- J
- Sample pH Not In Range Р Reporting Limit
- RL

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WO#: 2212005

09-Dec-22

ANAL	RONMENT YSIS RATORY	FAL		all Environm EL: 505-345 Website: vvi	49 Albuquer 3975 FAX	01 Haw que, NI : 505-3	vkins NE M 87109 45-4107	Sar	ample Log-In Check List			
Client Name:	R&REn	vironmental	Wor	k Order Nur	nber: 221	2005			RcptN	p: 1		
Received By: Completed By: Reviewed By:	11	jas sarrubias - /- 72		022 7:35:00 022 8:10:56			Guan	ing.				
Chain of Cus 1. Is Chain of C 2. How was the	ustody com				Yes <u>Cou</u>		No		Not Present			
<u>Log In</u> 3. Was an attern	pt made to	cool the samp	oles?		Yes		No		NA 🗌			
4. Were all samp	oles received	i at a tempera	ature of >0° C	to 6.0°C	Yes		No		na 🗌			
5. Sample(s) in p	proper conta	iner(s)?			Yes		No					
6. Sufficient sam			0.00		Yes		No	_				
7. Are samples (except VOA	and ONG) pr	operly preserv	ed?	Yes		No		_			
Was preservat	tive added to	bottles?			Yes		No	\checkmark	NA 🗌			
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ	VOA?	Yes		No		NA 🗸			
10. Were any sam	ple containe	ers received b	roken?		Yes		No					
11.Does paperwor (Note discrepa)		Yes		No		# of preserved bottles checked for pH: (<2 o	r >12 unless noted)		
12, Are matrices co					Yes		No		Adjusted?			
13. Is it clear what			10 101 10 100 PEC		Yes							
14. Were all holdin (If no, notify cu	g times able	e to be met?			Yes		No		Checked by:	Jn 12/1/22		
Special <u>Handli</u>	na (if app	licable)										
15. Was client not			with this order	?	Yes		No		NA 🔽			
Person N By Whor Regardin Client Ins	n:			Date Via:	:] [] eMa	ail 📄	Phone 🗌	Fax	In Person			
16. Additional rem	arks:											
17. <u>Cooler Inform</u> Cooler No	nation Temp ºC	Condition	Seal Intact	Seal No	Seal Da	ate	Signed E	3y				
1	1.7	Good	Yes		•••••••			-				

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email or	Fax#: F	PLOCK	muiron hentele	<u> 슈c</u> 커 Project Manager:	jer:						[*] O5		(jue		-		
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	12212005	BTEX)8:H9T 9 1808	EDB (V	PAHs ARDR	CI) E') 0928	2 lbtoT				
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10/04/11		No -	WANNANACY		\$ rouner	25:122/121 20	4										
	If necessar	y, samples su	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.	ocontracted to other	ccredited laborator	ries. This serves as notice of th	dis possibi	lity. Any	sub-con	racted da	ta will b	a clearly	notatec	i on the s	unalytical	report.	

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	In-or-Custody Record	WIENLE R & ENVIRONMENTal	Mailing Address: 1505 W, Bullock	575-6	email or Fax#: ju 414(@) Prenvirahnental, not	age:	Standard Level 4 (Full Validation)	on: 🗆 Az Compliance	Other	EDD (Type) the second s		Date Time Matrix Sample Name	11:30 Sail Lyta List		1 1135 1 5-8A 1.5'	1 11:40 5-11A 1.5'	11:45 / 542A 1.51	11:50 5-164 21	11:55 5-17421	1 12:00 1 54/-4				Ser.	Relinquished by:	- 1400 WILLIAM MAAN S	If necessary, samples submitted to Hall Environmental may be subcontracted to other

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ANALYTICAL REPORT

PREPARED FOR

Attn: Rebecca Pons R & R Environmental & Reclamation LLC 1505 W Bullock Ave Artesia, New Mexico 88210 Generated 12/13/2022 10:54:01 AM

JOB DESCRIPTION

Uncle Ches TB SDG NUMBER 30000.004

JOB NUMBER

890-3611-1

sed to Imaging: 2/1/2023 11:04:50 AM

EOL

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 12/13/2022 10:54:01 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Definitions/Glossary

Client: R & R Environmental & Reclamation LLC
Project/Site: Uncle Ches TB

Job ID: 890-3611-1 SDG: 30000.004

3

Qualifiers

GC	VO	Δ

J

U

GC Semi VOA Qualifier

Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ИL	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
۲L	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
ſEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
INTC	Too Numerous To Count

Job ID: 890-3611-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3611-1

Case Narrative

Receipt

The sample was received on 12/8/2022 12:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 20.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-7A (890-3611-1).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41491 and analytical batch 880-41523 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-41523/5), (LCS 880-41491/2-A) and (LCSD 880-41491/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-41491 and analytical batch 880-41523 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

ions 491 880 152 thar

Client Sample Results

RL

0.00201

0.00201

0.00201

0.00402

0.00201

0.00402

MDL Unit

0.000387 mg/Kg

0.000459 mg/Kg

0.000568 mg/Kg

0.00102 mg/Kg

0.000346 mg/Kg

0.00102 mg/Kg

D

Prepared

12/08/22 15:57 12/09/22 17:40

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Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

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

Result Qualifier

<0.00201 U

<0.00201 U

<0.00201 U

<0.00402 U

0.000540 J

<0.00402 U

Client Sample ID: S-7A Date Collected: 12/08/22 10:25 Date Received: 12/08/22 12:10 Sample Depth: 1.5'

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Lab Sample ID: 890-3611-1 Matrix: Solid

Analyzed

5 Dil Fac 1 1 Dil Fac

1

1

1

1

Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 98	Qualifier	Limits 70 - 130				Prepared 12/08/22 15:57	Analyzed 12/09/22 17:40	Dil Fac
1,4-Difluorobenzene (Surr)	81		70 - 130				12/08/22 15:57	12/09/22 17:40	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			12/12/22 15:56	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.8	J	49.9	15.0	mg/Kg			12/12/22 12:52	1
Method: SW846 8015B NM - Di									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	27.8	JB	49.9	15.0	mg/Kg		12/09/22 14:59	12/11/22 15:11	1
(GRO)-C6-C10	arist 1, 200		1000	17.0°C - 18					
Diesel Range Organics (Over	<49.9	U	49.9	15.0	mg/Kg		12/09/22 14:59	12/11/22 15:11	1
C10-C28)	<49.9	T 1	49.9	15.0	malka		12/09/22 14:59	12/11/22 15:11	1
Oll Range Organics (Over C28-C36)	\$49.9	U	49.9	15.0	mg/Kg		12/09/22 14:59	12/11/22 15.11	.1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				12/09/22 14:59	12/11/22 15:11	1
o-Terphenyl	96		70 - 130				12/09/22 14:59	12/11/22 15:11	1
Method: MCAWW 300.0 - Anior	ns, Ion Chr	omatograp	ohy - Soluble						
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	55.6		5.04	0.398	mg/Kg			12/10/22 11:05	1

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Surrogate Summary

Prep Type: Total/NA

6

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

Matrix: Solid	J			Prep Type: Total/NA
			Pe	rcent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-41393/1-A	Lab Control Sample	101	111	
LCSD 880-41393/2-A	Lab Control Sample Dup	104	112	
MB 880-41393/5-A	Method Blank	86	100	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
LCS 880-41491/2-A	Lab Control Sample	147 S1+	136 S1+				
LCSD 880-41491/3-A	Lab Control Sample Dup	144 S1+	136 S1+				
MB 880-41491/1-A	Method Blank	113	151 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							

OTPH = o-Terphenyl

QC Sample Results

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Job ID: 890-3611-1 SDG: 30000.004

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41393/5-A **Client Sample ID: Method Blank** Matrix: Solid Prep Type: Total/NA Analysis Batch: 41420 Prep Batch: 41393 MB MB **Result Qualifier** MDL Unit D Prepared Analyzed **Dil Fac** Analyte RL 12/08/22 15:57 12/09/22 11:50 Benzene <0.00200 U 0.00200 0.000385 mg/Kg 1 12/08/22 15:57 12/09/22 11:50 Toluene <0.00200 U 0.00200 0.000456 mg/Kg 1 12/08/22 15:57 12/09/22 11:50 Ethylbenzene <0.00200 U 0.00200 0.000565 mg/Kg 1 m-Xylene & p-Xylene <0.00400 U 0.00400 0.00101 mg/Kg 12/08/22 15:57 12/09/22 11:50 1 o-Xylene <0.00200 U 0.00200 0.000344 mg/Kg 12/08/22 15:57 12/09/22 11:50 1 0.00101 mg/Kg Xylenes, Total <0.00400 U 0.00400 12/08/22 15:57 12/09/22 11:50 1 MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 12/08/22 15:57 12/09/22 11:50 4-Bromofluorobenzene (Surr) 86 70 - 130 1 1,4-Difluorobenzene (Surr) 70 - 130 12/08/22 15:57 12/09/22 11:50 100 1 **Client Sample ID: Lab Control Sample**

Lab Sample ID: LCS 880-41393/1-A Matrix: Solid Analysis Batch: 41420

Analysis Batch: 41420							Prep I	Batch: 41393
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1221		mg/Kg		122	70 - 130	
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130	
100	100							

	LUS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-41393/2-A Matrix: Solid

Analy	ISIS	Batch:	41420
And	313	Daton.	

Analysis Batch: 41420								Prep E	Batch: 4	11393
		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.100	0.1225		mg/Kg		122	70 - 130	0	35
Toluene		0.100	0.1087		mg/Kg		109	70 - 130	0	35
Ethylbenzene		0.100	0.1061		mg/Kg		106	70 - 130	4	35
m-Xylene & p-Xylene		0.200	0.2133		mg/Kg		107	70 - 130	3	35
o-Xylene		0.100	0.1043		mg/Kg		104	70 - 130	4	35
	LCSD LCSD									

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Project/Site: Uncle Ches TB

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	esel Ran	ge .	Julia	00 (DIL	-/ (/									
Lab Sample ID: MB 880-41	491/1-A										Client	Samp	ole ID: Me	ethod	Blank
Matrix: Solid													Prep Тур		
Analysis Batch: 41523													Prep B	atch:	41491
			MB												
Analyte			Qualifier		RL			Unit		<u>D</u>		ared	Analyz		Dil Fac
Gasoline Range Organics	2	21.00	J		50.0		15.0	mg/Kg			12/09/2	2 14:59	12/11/22 ()9:16	1
(GRO)-C6-C10					50.0		15.0	mg/Kg			12/00/2	2 14.50	12/11/22 (0.16	1
Diesel Range Organics (Over C10-C28)		<50.0	U		50.0		15.0	mg/kg			12/09/2	2 14.09	12/11/22 (9.10	1
Oll Range Organics (Over C28-C36	i) <	<50.0	U		50.0		15.0	mg/Kg			12/09/2	2 14:59	12/11/22 (9:16	1
5 5 X	<i>.</i>														
_			MB								-				
Surrogate	%Reco		Qualifier							-		ared	Analyz 12/11/22 (Dil Fac
1-Chlorooctane		113	04.	0.00	130										1
o-Terphenyl		151	S1+	70-	130						12/09/2	2 14:59	12/11/22 (9:16	1
Lab Sample ID: LCS 880-41	1401/2 A								Clic	ont	Samo		Lab Cont	trol S	amplo
Matrix: Solid	1-73 11Z-M								One	SIL	Jamp		Prep Typ		
Analysis Batch: 41523													Prep Ba		
Analysis Batch. 41525				Spike		109	LCS						%Rec	aton.	41431
Analyte				Added		Result			Unit		D %	Rec	Limits		
Gasoline Range Organics				1000		869.9	Quu		mg/Kg		<u> </u>		70 - 130		
GRO)-C6-C10				1000		000.0			ingrig			0.	10-100		
Diesel Range Organics (Over				1000		1019			mg/Kg			102	70 - 130		
C10-C28)															
	105	LCS													
urrogate	%Recoverv	Qua	lifier	Limits											
	%Recovery 147			Limits 70 - 130											
-Chlorooctane	147	Qua S1+ S1+													
-Chlorooctane -Terphenyl	147 136	S1+		70 - 130											
-Chlorooctane -Terphenyl	147 136	S1+		70 - 130				CI	ient Sa	amp	ple ID:		Control S	-	
-Chlorooctane -Terphenyl -ab Sample ID: LCSD 880-4	147 136	S1+		70 - 130				СІ	ient Sa	amp	ple ID:		Ргер Тур	e: To	tal/NA
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 flatrix: Solid	147 136	S1+		70 - 130				СІ	ient Sa	amp	ple ID:		Prep Typ Prep Ba	e: To	tal/NA 41491
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 flatrix: Solid	147 136	S1+		70 - 130		LCSD		D		amp			Prep Typ Prep Ba %Rec	e: To atch:	tal/NA 41491 RPD
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 flatrix: Solid Analysis Batch: 41523 nalyte	147 136	S1+		70 - 130 70 - 130 Spike Added		Result		D lifier	Unit	amp		Rec	Prep Typ Prep Ba %Rec Limits	e: To atch: RPD	tal/NA 41491 RPD Limit
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-4 Iatrix: Solid Inalysis Batch: 41523 nalyte asoline Range Organics	147 136	S1+		70 - 130 70 - 130 Spike				D lifier		amp		Rec	Prep Typ Prep Ba %Rec	e: To atch:	tal/NA 41491 RPD Limit
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 Matrix: Solid Malysis Batch: 41523 nalyte masoline Range Organics GRO)-C6-C10	147 136	S1+		70 - 130 70 - 130 Spike Added 1000		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-4 fatrix: Solid malysis Batch: 41523 nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over	147 136	S1+		70 - 130 70 - 130 Spike Added		Result		D lifier	Unit	amp		Rec	Prep Typ Prep Ba %Rec Limits	e: To atch: RPD	tal/NA 41491 RPD Limit
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 malyte masoline Range Organics GRO)-C6-C10 miesel Range Organics (Over	147 136	S1+		70 - 130 70 - 130 Spike Added 1000		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 Matrix: Solid Malysis Batch: 41523 nalyte masoline Range Organics GRO)-C6-C10 iesel Range Organics (Over	147 136 41491/3-A	S1+ S1+		70 - 130 70 - 130 Spike Added 1000		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 flatrix: Solid Analysis Batch: 41523 malyte Basoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate	147 136 41491/3-A <i>LCSD</i> %Recovery	S1+ S1+ LCS Qual		70 - 130 70 - 130 Spike Added 1000 1000		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 Malyte Basoline Range Organics GRO)-C6-C10 Miesel Range Organics (Over 10-C28) Currogate -Chlorooctane	147 136 41491/3-A <i>LCSD</i> %Recovery 144	S1+ S1+ S1+		70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 Malyte Basoline Range Organics GRO)-C6-C10 Miesel Range Organics (Over 10-C28) Murrogate -Chlorooctane	147 136 41491/3-A <i>LCSD</i> %Recovery 144	S1+ S1+ LCS Qual		70 - 130 70 - 130 Spike Added 1000 1000		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 /latrix: Solid Analysis Batch: 41523 .malyte Gasoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl	147 136 41491/3-A <i>LCSD</i> %Recovery 144 136	S1+ S1+ S1+ LCS Qual S1+ S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130		Result 857.3		D lifier	Unit mg/Kg	amp		Rec	Prep Typ Prep Ba %Rec Limits 70 - 130	e: Tot atch: RPD 1	tal/NA 41491 RPD Limit 20
-Chlorooctane -Terphenyl ab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 analyte Basoline Range Organics GRO)-C6-C10 biesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl ethod: 300.0 - Anions,	147 136 41491/3-A %Recovery 144 136 Ion Chro	S1+ S1+ S1+ LCS Qual S1+ S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130		Result 857.3		D lifier	Unit mg/Kg		<u>D</u> %	Rec 86 97	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: To atch: RPD 1 5	tal/NA 41491 RPD Limit 20 20
-Chlorooctane -Terphenyl .ab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 	147 136 41491/3-A %Recovery 144 136 Ion Chro	S1+ S1+ S1+ LCS Qual S1+ S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130		Result 857.3		D lifier	Unit mg/Kg		<u>D</u> %	Rec 86 97	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 1 5	tal/NA 41491 RPD Limit 20 20 20 Blank
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 Analyte Basoline Range Organics GRO)-C6-C10 biesel Range Organics (Over Chlorooctane -Terphenyl ethod: 300.0 - Anions, ab Sample ID: MB 880-414 Matrix: Solid	147 136 41491/3-A %Recovery 144 136 Ion Chro	S1+ S1+ S1+ LCS Qual S1+ S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130		Result 857.3		D lifier	Unit mg/Kg		<u>D</u> %	Rec 86 97	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 1 5	tal/NA 41491 RPD Limit 20 20 20 Blank
Surrogate (-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 41523 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane -Terphenyl ethod: 300.0 - Anions, Lab Sample ID: MB 880-414 Matrix: Solid Analysis Batch: 41532	147 136 41491/3-A %Recovery 144 136 Ion Chro	S1+ S1+ LCS Qual S1+ S1+ S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130		Result 857.3		D lifier	Unit mg/Kg		<u>D</u> %	Rec 86 97	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: Tot atch: RPD 1 5	tal/NA 41491 RPD Limit 20 20 20 Blank
Analyte Concerning Constraints of the second secon	147 136 41491/3-A 41491/3-A %Recovery 144 136 Ion Chro 33/1-A	S1+ S1+ LCS Qual S1+ S1+ S1+ Dma	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130 70 - 130	RL	Result 857.3 969.5		D	Unit mg/Kg mg/Kg		<u>D</u> %	Rec 86 97 Samp	Prep Typ Prep Ba %Rec Limits 70 - 130 70 - 130	e: To atch: RPD 1 5	tal/NA 41491 RPD Limit 20 20 20 Blank

12/13/2022

QC Sample Results

Job ID: 890-3611-1 SDG: 30000.004

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client: R & R Environmental & Reclamation LLC

Project/Site: Uncle Ches TB

Lab Sample ID: LCS 880-41433/2-A Matrix: Solid Analysis Batch: 41532				Clien	t Sa	mple ID	: Lab Cor Prep T	ntrol Sa ype: So	
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	260.9		mg/Kg		104	90 - 110		
Lab Sample ID: LCSD 880-41433/3-A Matrix: Solid Analysis Batch: 41532			C	Client San	nple	ID: Lab		Sample ype: Sc	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	261.5	Qualifier	Unit mg/Kg	<u>D</u>	%Rec 105	Limits 90 - 110	RPD 0	Limit 20

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QC Association Summary

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

8 9

GC VOA

Prep Batch: 41393

Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	5035	
Method Blank	Total/NA	Solid	5035	
Lab Control Sample	Total/NA	Solid	5035	
Lab Control Sample Dup	Total/NA	Solid	5035	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	8021B	41393
Method Blank	Total/NA	Solid	8021B	41393
Lab Control Sample	Total/NA	Solid	8021B	41393
Lab Control Sample Dup	Total/NA	Solid	8021B	41393
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	Total BTEX	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	8015NM Prep	
Method Blank	Total/NA	Solid	8015NM Prep	
Lab Control Sample	Total/NA	Solid	8015NM Prep	
Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	8015B NM	41491
Method Blank	Total/NA	Solid	8015B NM	41491
Lab Control Sample	Total/NA	Solid	8015B NM	41491
Lab Control Sample Dup	Total/NA	Solid	8015B NM	41491
Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
S-7A	Total/NA	Solid	8015 NM	
Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Client Sample ID S-7A	Soluble	Solid	Method DI Leach	Prep Batch
	Soluble Soluble	Solid Solid		Prep Batch
S-7A	Soluble	Solid	DI Leach	Prep Batch
S-7A Method Blank	Soluble	Solid Solid	DI Leach DI Leach	Prep Batch
S-7A Method Blank Lab Control Sample	Soluble Soluble Soluble	Solid Solid Solid	DI Leach DI Leach DI Leach	Prep Batch
S-7A Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble Prep Type	Solid Solid Solid Solid Matrix	DI Leach DI Leach DI Leach DI Leach Method	Prep Batch
S-7A Method Blank Lab Control Sample Lab Control Sample Dup	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	DI Leach DI Leach DI Leach DI Leach DI Leach	
S-7A Method Blank Lab Control Sample Lab Control Sample Dup Client Sample ID	Soluble Soluble Soluble Soluble Prep Type	Solid Solid Solid Solid Matrix	DI Leach DI Leach DI Leach DI Leach Method	Prep Batch
S-7A Method Blank Lab Control Sample Lab Control Sample Dup Client Sample ID S-7A	Soluble Soluble Soluble Soluble Prep Type Soluble	Solid Solid Solid Solid Matrix Solid	DI Leach DI Leach DI Leach DI Leach Method 300.0	Prep Batch 41433
	S-7A Method Blank Lab Control Sample Lab Control Sample Dup Client Sample ID S-7A Method Blank Lab Control Sample Dup Client Sample ID S-7A Client Sample ID S-7A Method Blank Lab Control Sample Lab Control Sample Dup Client Sample ID S-7A Method Blank Lab Control Sample Dup Client Sample ID S-7A Method Blank Lab Control Sample Dup Client Sample ID S-7A Method Blank Lab Control Sample Dup Client Sample ID S-7A	S-7A Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Client Sample ID Prep Type S-7A Total/NA Method Blank Total/NA Lab Control Sample ID Prep Type S-7A Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Client Sample ID Prep Type S-7A Total/NA Client Sample ID Prep Type S-7A Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Client Sample ID Prep Type S-7A Total/NA Method Blank Total/NA Lab Control Sample Dup Total/NA Client Sample ID Prep Type S-7A Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA <td>S-7A Total/NA Solid Method Blank Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix S-7A Total/NA Solid Method Blank Total/NA Solid Lab Control Sample ID Prep Type Matrix S-7A Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix S-7A Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix<td>S-7A Total/NA Solid 5036 Method Blank Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8021B Method Blank Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Dup Total/NA Solid 8021B Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Glient Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Dup Total/NA Solid 8015NM Prep Lab Control Sample</td></td>	S-7A Total/NA Solid Method Blank Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix S-7A Total/NA Solid Method Blank Total/NA Solid Lab Control Sample ID Prep Type Matrix S-7A Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix S-7A Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Lab Control Sample Dup Total/NA Solid Client Sample ID Prep Type Matrix <td>S-7A Total/NA Solid 5036 Method Blank Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8021B Method Blank Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Dup Total/NA Solid 8021B Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Glient Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Dup Total/NA Solid 8015NM Prep Lab Control Sample</td>	S-7A Total/NA Solid 5036 Method Blank Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8021B Method Blank Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Total/NA Solid 8021B Lab Control Sample Dup Total/NA Solid 8021B Client Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Glient Sample ID Prep Type Matrix Method S-7A Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Total/NA Solid 8015NM Prep Lab Control Sample Dup Total/NA Solid 8015NM Prep Lab Control Sample

Released to Imaging: 2/1/2023 11:04:50 AM **Eurofins Carlsbad**

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Job ID: 890-3611-1 SDG: 30000.004

Matrix: Solid

Lab Sample ID: 890-3611-1

Client Sample ID: S-7A Date Collected: 12/08/22 10:25 Date Received: 12/08/22 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	41393	12/08/22 15:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	41420	12/09/22 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			41670	12/12/22 15:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			41638	12/12/22 12:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41491	12/09/22 14:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41523	12/11/22 15:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41433	12/09/22 12:00	KS	EET MID
Soluble	Analysis	300.0		1			41532	12/10/22 11:05	СН	EET MID

Lab Chronicle

Laboratory References:

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

Accreditation/Certification Summary

10

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Eurofins Carlsbad

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Job ID: 890-3611-1 SDG: 30000.004

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

Method Summary

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB Job ID: 890-3611-1 SDG: 30000.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3611-1	S-7A	Solid	12/08/22 10:25	12/08/22 12:10	1.5'

•

Login Sample Receipt Checklist

Client: R & R Environmental & Reclamation LLC

Job Number: 890-3611-1 SDG Number: 30000.004

List Source: Eurofins Carlsbad

Login Number: 3611 List Number: 1 Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: R & R Environmental & Reclamation LLC

Login Number: 3611 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 890-3611-1 SDG Number: 30000.004

List Source: Eurofins Midland List Creation: 12/09/22 11:39 AM



Page 129 of 152

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Rebecca Pons R & R Environmental & Reclamation LLC 1505 W Bullock Ave Artesia, New Mexico 88210 Generated 12/27/2022 8:42:56 AM

JOB DESCRIPTION

Uncle Ches TB SDG NUMBER Lea County NM

JOB NUMBER

890-3636-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

RAMER

Generated 12/27/2022 8:42:56 AM 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: R & R Environmental & Reclamation LLC
Project/Site: Uncle Ches TB

Definitions/Glossary

Job ID: 890-3636-1 SDG: Lea County NM

3

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
GC Semi VOA	
Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Job ID: 890-3636-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3636-1

Receipt

The samples were received on 12/13/2022 12:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-13B (890-3636-1), S-14B (890-3636-2), S-19B (890-3636-3) and SW-5A (890-3636-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41843 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41843/2-A) and (LCSD 880-41843/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-13B (890-3636-1), S-14B (890-3636-2) and S-19B (890-3636-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-41843 and analytical batch 880-42078 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

Client Sample Results

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Matrix: Solid

Dil Fac

Analyzed

10/17/00 00 0

Lab Sample ID: 890-3636-2

Matrix: Solid

5

Lab Sample ID: 890-3636-1

Client Sample ID: S-13B

Date Collected: 12/13/22 10:35 Date Received: 12/13/22 12:57

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		12/22/22 10:36	12/24/22 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				12/22/22 10:36	12/24/22 18:58	1
1,4-Difluorobenzene (Surr)	92		70 - 130				12/22/22 10:36	12/24/22 18:58	1

Method: TAL SOP Total BTEX - Tota	I BTEX Calo	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			12/26/22 15:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.2		49.9	15.0	mg/Kg			12/19/22 15:35	1

D

Prepared

Method: SW846 8015B NM - E	Diesel Range Orga	nics (DRO) (C	SC)		
Analyte	Result	Qualifier	RL	MDL	Unit
Gasoline Range Organics	39.0	JB	49.9	15.0	mg/Kg

39.0	JB	49.9	15.0 mg/Kg	12/14/22 15:35	12/17/22 20:01	1
17.9	J	49.9	15.0 mg/Kg	12/14/22 15:35	12/17/22 20:01	1
15.3	J	49.9	15.0 mg/Kg	12/14/22 15:35	12/17/22 20:01	1
%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
125		70 - 130		12/14/22 15:35	12/17/22 20:01	1
140	S1+	70 - 130		12/14/22 15:35	12/17/22 20:01	1
	17.9 15.3 <u>%Recovery</u> 125	39.0 J B 17.9 J 15.3 J <u>%Recovery</u> <u>Qualifier</u> 125 140 S1+	17.9 J 49.9 15.3 J 49.9 <u>%Recovery</u> Qualifier Limits 125 70-130	17.9 J 49.9 15.0 mg/Kg 15.3 J 49.9 15.0 mg/Kg <u>%Recovery</u> Qualifier Limits 70 - 130	17.9 J 49.9 15.0 mg/Kg 12/14/22 15:35 15.3 J 49.9 15.0 mg/Kg 12/14/22 15:35 <u>%Recovery</u> Qualifier Limits Prepared 12/14/22 15:35 70 - 130 12/14/22 15:35	17.9 J 49.9 15.0 mg/Kg 12/14/22 15:35 12/17/22 20:01 15.3 J 49.9 15.0 mg/Kg 12/14/22 15:35 12/17/22 20:01 <u>%Recovery</u> Qualifier Limits Prepared Analyzed 12/14/22 15:35 70 - 130 12/17/22 20:01

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 12/21/22 07:30 5.00 0.395 mg/Kg 1 Chloride 1.37 J

Client Sample ID: S-14B

Date Collected: 12/13/22 10:40

Date Received: 12/13/22 12:57 Sample Depth: 7.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		12/22/22 10:36	12/24/22 19:19	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		12/22/22 10:36	12/24/22 19:19	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		12/22/22 10:36	12/24/22 19:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		12/22/22 10:36	12/24/22 19:19	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		12/22/22 10:36	12/24/22 19:19	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		12/22/22 10:36	12/24/22 19:19	1

<0.00398 U

%Recovery Qualifier

119

88

<0.00398 U

Result Qualifier

5

Client Sample ID: S-14B Date Collected: 12/13/22 10:40 Date Received: 12/13/22 12:57 Sample Depth: 7.5							Lab Sar	nple ID: 890- Matr	-3636-2 ix: Solid
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		70 - 130				12/22/22 10:36	12/24/22 19:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/22/22 10:36	12/24/22 19:19	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			12/26/22 15:56	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.2		49.9	15.0				12/19/22 15:35	1
Method: SW846 8015B NM - Dies	-					_	-		
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.2	JB	49.9	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:23	1
Diesel Range Organics (Over	<49.9	U	49.9	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:23	1
C10-C28)									
Oll Range Organics (Over	15.0	J	49.9	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:23	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				12/14/22 15:35	12/17/22 20:23	1
o-Terphenyl	141	S1+	70 - 130				12/14/22 15:35	12/17/22 20:23	1
Method: MCAWW 300.0 - Anions	Ion Chromate	ography - So	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	0.391	mg/Kg			12/21/22 07:37	1
Client Sample ID: S-19B							Lab San	nple ID: 890-	3636-3
Date Collected: 12/13/22 10:45									x: Solid
Date Received: 12/13/22 12:57									
Sample Depth: 2									
Method: SW846 8021B - Volatile						-			
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		12/22/22 10:36	12/24/22 19:39	1
Toluene	<0.00199		0.00199	0.000454	mg/Kg		12/22/22 10:36	12/24/22 19:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 10:36	12/24/22 19:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		12/22/22 10:36	12/24/22 19:39	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		12/22/22 10:36	12/24/22 19:39	1

Eurofins Carlsbad

12/24/22 19:39

Analyzed

12/24/22 19:39

12/24/22 19:39

Analyzed

12/26/22 15:56

1

1

1

1

Dil Fac

Dil Fac

Released to Imaging: 2/1/2023 11:04:50 AM

0.00398

Limits

70 - 130

70_130

RL

0.00398

0.00101 mg/Kg

MDL Unit

0.00101 mg/Kg

12/22/22 10:36

Prepared

12/22/22 10:36

12/22/22 10:36

Prepared

D

Analyte

Total BTEX

Xylenes, Total

4-Bromofluorobenzene (Surr)

Method: TAL SOP Total BTEX - Total BTEX Calculation

1,4-Difluorobenzene (Surr)

Surrogate

Matrix: Solid

5

Lab Sample ID: 890-3636-3

Lab Sample ID: 890-3636-4

Matrix: Solid

Client Sample ID: S-19B

Date Collected: 12/13/22 10:45 Date Received: 12/13/22 12:57

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.5	J	50.0	15.0	mg/Kg			12/19/22 15:35	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	25.5	JB	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	17.0	J	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:44	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				12/14/22 15:35	12/17/22 20:44	1
o-Terphenyl	133	S1+	70 - 130				12/14/22 15:35	12/17/22 20:44	1

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	6.17	1	5.02	0.397	mg/Kg			12/21/22 07:45	1
1										

Client Sample ID: SW-5A

Date Collected: 12/13/22 10:30

Date Received: 12/13/22 12:57

Method: SW846 8021B - Volatile O	rganic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		12/22/22 10:36	12/24/22 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/22/22 10:36	12/24/22 20:00	1
1,4-Difluorobenzene (Surr)	83		70_130				12/22/22 10:36	12/24/22 20:00	1

Method: TAL SOP Total BTEX - Tota	I BTEX Calo	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			12/26/22 15:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Mictilou. Oviono obio tem Dice	for italige organ	100 (0110) (0	-)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.7		50.0	15.0	mg/Kg			12/19/22 15:35	1
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	48.4	JB	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 21:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	17.1	J	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 21:06	1
C10-C28)									
OII Range Organics (Over	15.2	J	50.0	15.0	mg/Kg		12/14/22 15:35	12/17/22 21:06	1
C28-C36)									

Matrix: Solid

Lab Sample ID: 890-3636-4

Client Sample ID: SW-5A Date Collected: 12/13/22 10:30

Date Received: 12/13/22 12:57

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				12/14/22 15:35	12/1//22 21:00	1
o-Terphenyl	129		70 - 130				12/14/22 15:35	12/17/22 21:06	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	graphy - So	luble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.03	J	4.97	0.393	mg/Kg			12/21/22 07:53	1

Client Sample Results

Job ID: 890-3636-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3636-1	S-13B	125	92	
890-3636-2	S-14B	131 S1+	88	
890-3636-3	S-19B	119	88	
890-3636-4	SW-5A	123	83	
LCS 880-42487/1-A	Lab Control Sample	100	84	
LCSD 880-42487/2-A	Lab Control Sample Dup	102	80	
MB 880-42487/5-A	Method Blank	101	82	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3636-1	S-13B	125	140 S1+	
890-3636-2	S-14B	127	141 S1+	
890-3636-3	S-19B	118	133 S1+	
890-3636-4	SW-5A	116	129	
LCS 880-41843/2-A	Lab Control Sample	127	139 S1+	
LCSD 880-41843/3-A	Lab Control Sample Dup	124	132 S1+	
MB 880-41843/1-A	Method Blank	134 S1+	154 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Received by OCD: 1/11/2023 9:05:28 AM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42487/5-A Matrix: Solid Analysis Batch: 42587											Client Sa	ample ID: Meti Prep Type Prep Bat	
Allalysis Batch. 42307		мв	MB									Thep bat	511. 42407
Analyte			Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.002		Summer of the second second	0.00200		0385	mg/Kg				2/22 10:36	12/24/22 12:05	1
Toluene	<0.002	200	U	0.00200	0.00	0456	mg/Kg			12/2	2/22 10:36	12/24/22 12:05	1
Ethylbenzene	< 0.002	200	U	0.00200	0.00		mg/Kg			12/2	2/22 10:36	12/24/22 12:05	1
m-Xylene & p-Xylene	< 0.004	400	U	0.00400	0.0	0101	mg/Kg			12/2	2/22 10:36	12/24/22 12:05	1
o-Xylene	<0.002			0.00200	0.00	0344	mg/Kg			12/2	2/22 10:36	12/24/22 12:05	1
Xylenes, Total	<0.004	400	U	0.00400	0.0	0101	mg/Kg			12/2	2/22 10:36	12/24/22 12:05	1
	1	MВ	МВ										
Surrogate	%Recov	ery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
										12/2	2/22 10:36	12/24/22 12:05	1
4-Bromofluorobenzene (Surr)	1	101		70 - 130						102			
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	1	101 82		70 ₋ 130 70 <u>-</u> 130							2/22 10:36	12/24/22 12:05	1
1,4-Difluorobenzene (Surr)										12/2	2/22 10:36	12/24/22 12:05	-
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A									C	12/2	2/22 10:36	12/24/22 12:05	I Sample
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid									C	12/2	2/22 10:36	12/24/22 12:05 ID: Lab Contro Prep Type:	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A				70 - 130					CI	12/2	2/22 10:36	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bat	l Sample Total/NA
1, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587				70 <u>-</u> 130 Spike	LCS				C	12/2. lient	2/22 10:36 Sample I	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bat %Rec	l Sample Total/NA
1, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte				70 - 130 Spike Added	Result			Unit	C	12/2	2/22 10:36 Sample I %Rec	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bate %Rec Limits	l Sample Total/NA
1, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587				70 - 130 Spike Added 0.100	Result 0.09857			mg/Kg	C	12/2. lient	2/22 10:36 Sample I %Rec 99	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bat %Rec Limits 70 - 130	l Sample Total/NA
1, <i>4-Difluorobenzene (Surr)</i> Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte				Spike Added 0.100 0.100	Result 0.09857 0.09868			mg/Kg mg/Kg	C	12/2. lient	2/22 10:36 Sample I %Rec 99 99	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bat %Rec Limits 70 - 130 70 - 130	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene				70 - 130 Spike Added 0.100	Result 0.09857 0.09868 0.09495			mg/Kg mg/Kg mg/Kg	C	12/2. lient	2/22 10:36 Sample I %Rec 99	12/24/22 12:05	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene Toluene				Spike Added 0.100 0.100	Result 0.09857 0.09868			mg/Kg mg/Kg	C	12/2. lient	2/22 10:36 Sample I %Rec 99 99	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bat %Rec Limits 70 - 130 70 - 130	I Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene Toluene Ethylbenzene				Spike Added 0.100 0.100 0.100	Result 0.09857 0.09868 0.09495			mg/Kg mg/Kg mg/Kg	C	12/2. lient	2/22 10:36 Sample I %Rec 99 99 95	12/24/22 12:05	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene		82		70 - 130 Spike Added 0.100 0.100 0.200	Result 0.09857 0.09868 0.09495 0.2062			mg/Kg mg/Kg mg/Kg mg/Kg	CI	12/2. lient	2/22 10:36 Sample I %Rec 99 99 95 103	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene		82 .CS	fier	70 - 130 Spike Added 0.100 0.100 0.200	Result 0.09857 0.09868 0.09495 0.2062			mg/Kg mg/Kg mg/Kg mg/Kg	CI	12/2. lient	2/22 10:36 Sample I %Rec 99 99 95 103	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	l Sample Total/NA
1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-42487/1-A Matrix: Solid Analysis Batch: 42587 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	LCS L	82 .CS	fier	Spike Added 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100	Result 0.09857 0.09868 0.09495 0.2062			mg/Kg mg/Kg mg/Kg mg/Kg	CI	12/2. lient	2/22 10:36 Sample I %Rec 99 99 95 103	12/24/22 12:05 ID: Lab Contro Prep Type: Prep Bate %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	l Sample Total/NA

Lab Sample ID: LCSD 880-42487/2-A Matrix: Solid

RPD
Limit
35
35
35
35
35

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70_130
1,4-Difluorobenzene (Surr)	80		70 - 130

Released to Imaging: 2/1/2023 11:04:50 AM

Prep Type: Total/NA

		-		RO) (GC)											
Lab Sample ID: MB 880-41843/1-A Matrix: Solid												Client Sa	ample ID: I Prep T		
Analysis Batch: 42078													Prep	Batch:	4184
,		MB	MB												
Analyte	Re	esult	Qualifier		RL		MDL	Unit		D	Ρ	repared	Analyze	ed	Dil F
Gasoline Range Organics	1	6.06	J	5	0.0		15.0	mg/Kg			12/1	4/22 15:35	12/17/22 0	8:52	
(GRO)-C6-C10															
Diesel Range Organics (Over	<	50.0	U	5	0.0		15.0	mg/Kg			12/1	4/22 15:35	12/17/22 0	8:52	
C10-C28)															
Oll Range Organics (Over C28-C36)	<	50.0	U	5	0.0		15.0	mg/Kg			12/1	4/22 15:35	12/17/22 0	8:52	
		MB	МВ												
Surrogate	%Reco	very	Qualifier	Limits							P	repared	Analyze	ed	Dil F
1-Chlorooctane		134	S1+	70 - 13	0					_	12/1	4/22 15:35	12/17/22 0	8:52	
o-Terphenyl		154		70 - 13	0						12/1	4/22 15:35	12/17/22 0	8:52	
Analysis Batch: 42078 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS			Spike Added 1000 1000	Re 1	LCS esult 1168	LCS Quali	fier	Unit mg/Kg mg/Kg		D	%Rec	Prep %Rec Limits 70 - 130 70 - 130	Batch:	418
Summer and a			fior	Limits											
Surrogate %	Recovery 127	Quali		70 - 130											
		04.		70 - 130 70 - 130											
o-Terphenyl	139	57+		70-130											
Lab Sample ID: LCSD 880-41843/3-	A								Clie	ent S	am	ple ID: L	ab Control	Sampl	le Du
Matrix: Solid													Prep Ty	pe: To	tal/N
														Batch:	
Analysis Batch: 42076				Spike	LC	CSD	LCSD						%Rec		RF
Analysis Batch: 42076														000	Lin
				Added	Re	sult	Quali	fier	Unit		D	%Rec	Limits	RPD	LIII
Analyte							Quali				<u>D</u> -	%Rec	70 - 130	15	
Analyte				Added		sult 010	Quali		Unit mg/Kg		<u>D</u> .				
Analysis Batch: 42078 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over					1		Quali				<u>D</u> -				

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	132	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41929/1-A Matrix: Solid Analysis Batch: 42327							Client Sa	ample ID: Metho Prep Type:	
Analysis Baton: 42021	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	0.395	mg/Kg			12/21/22 04:24	1

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Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-41929/2-A Matrix: Solid Analysis Batch: 42327				3	Client	Sample	e ID: Lab C Prep	ontrol S Type: S	-
,	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	246.0	-	mg/Kg		98	90 - 110		
Lab Sample ID: LCSD 880-41929/3-A Matrix: Solid Analysis Batch: 42327				Clien	t Sam	ple ID:	Lab Contro Prep	l Sampl Type: S	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	245.9		mg/Kg		98	90 - 110	0	20

Job ID: 890-3636-1 SDG: Lea County NM

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GC VOA

Prep Batch: 42487

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
390-3636-1	S-13B	Total/NA	Solid	5035	
890-3636-2	S-14B	Total/NA	Solid	5035	
890-3636-3	S-19B	Total/NA	Solid	5035	
890-3636-4	SW-5A	Total/NA	Solid	5035	
MB 880-42487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
nalysis Batch: 42587					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3636-1	S-13B	Total/NA	Solid	8021B	42487
390-3636-2	S-14B	Total/NA	Solid	8021B	42487
390-3636-3	S-19B	Total/NA	Solid	8021B	42487
390-3636-4	SW-5A	Total/NA	Solid	8021B	42487
VB 880-42487/5-A	Method Blank	Total/NA	Solid	8021B	42487
LCS 880-42487/1-A	Lab Control Sample	Total/NA	Solid	8021B	42487
_CSD 880-42487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42487
nalysis Batch: 42600					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3636-1	S-13B	Total/NA	Solid	Total BTEX	
390-3636-2	S-14B	Total/NA	Solid	Total BTEX	
190-3636-3	S-19B	Total/NA	Solid	Total BTEX	
390-3636-4	SW-5A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41843

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3636-1	S-13B	Total/NA	Solid	8015NM Prep	
890-3636-2	S-14B	Total/NA	Solid	8015NM Prep	
890-3636-3	S-19B	Total/NA	Solid	8015NM Prep	
890-3636-4	SW-5A	Total/NA	Solid	8015NM Prep	
MB 880-41843/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41843/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41843/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3636-1	S-13B	Total/NA	Solid	8015B NM	41843
890-3636-2	S-14B	Total/NA	Solid	8015B NM	41843
890-3636-3	S-19B	Total/NA	Solid	8015B NM	41843
890-3636-4	SW-5A	Total/NA	Solid	8015B NM	41843
MB 880-41843/1-A	Method Blank	Total/NA	Solid	8015B NM	41843
LCS 880-41843/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41843
LCSD 880-41843/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41843
Analysis Batch: 42226					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3636-1	S-13B	Total/NA	Solid	8015 NM	

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8015 NM

890-3636-2

S-14B

Total/NA

Solid

QC Association Summary

Job ID: 890-3636-1 SDG: Lea County NM

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GC Semi VOA (Continued)

Analysis Batch: 42226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3636-3	S-19B	Total/NA	Solid	8015 NM	
890-3636-4	SW-5A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3636-1	S-13B	Soluble	Solid	DI Leach	and Charlester and Alexandra
890-3636-2	S-14B	Soluble	Solid	DI Leach	
890-3636-3	S-19B	Soluble	Solid	DI Leach	
890-3636-4	SW-5A	Soluble	Solid	DI Leach	
MB 880-41929/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41929/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41929/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 42327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3636-1	S-13B	Soluble	Solid	300.0	41929
890-3636-2	S-14B	Soluble	Solid	300.0	41929
890-3636-3	S-19B	Soluble	Solid	300.0	41929
890-3636-4	SW-5A	Soluble	Solid	300.0	41929
MB 880-41929/1-A	Method Blank	Soluble	Solid	300.0	41929
LCS 880-41929/2-A	Lab Control Sample	Soluble	Solid	300.0	41929
LCSD 880-41929/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41929

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42487	12/22/22 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42587	12/24/22 18:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42600	12/26/22 15:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42226	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41843	12/14/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/17/22 20:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41929	12/15/22 14:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42327	12/21/22 07:30	СН	EET MID

Lab Chronicle

Client Sample ID: S-14B

Date Collected: 12/13/22 10:40 Date Received: 12/13/22 12:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42487	12/22/22 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42587	12/24/22 19:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42600	12/26/22 15:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42226	12/19/22 15:35	SM	EET MID
Total/NA	Ргер	8015NM Prep			10.02 g	10 mL	41843	12/14/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/17/22 20:23	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41929	12/15/22 14:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42327	12/21/22 07:37	СН	EET MID

Client Sample ID: S-19B

Date Collected: 12/13/22 10:45

Date Received: 12/13/22 12:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42487	12/22/22 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42587	12/24/22 19:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42600	12/26/22 15:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42226	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41843	12/14/22 15:35	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/17/22 20:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	41929	12/15/22 14:21	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42327	12/21/22 07:45	СН	EET MID

Client Sample ID: SW-5A Date Collected: 12/13/22 10:30 Date Received: 12/13/22 12:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42487	12/22/22 10:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42587	12/24/22 20:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42600	12/26/22 15:56	AJ	EET MID

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Lab Sample ID: 890-3636-1 Matrix: Solid

Job ID: 890-3636-1

SDG: Lea County NM

Lab Sample ID: 890-3636-2

Lab Sample ID: 890-3636-3

Lab Sample ID: 890-3636-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Lab Chronicle

Job ID: 890-3636-1 SDG: Lea County NM

Matrix: Solid

Lab Sample ID: 890-3636-4

Client Sample ID: SW-5A

Date Collected: 12/13/22 10:30 Date Received: 12/13/22 12:57

Prep Type Total/NA	Batch Type Analysis	Batch Method 8015 NM	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 42226	Prepared or Analyzed 12/19/22 15:35	Analyst SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	41843 42078	12/14/22 15:35 12/17/22 21:06	DM SM	EET MID EET MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.03 g 50 mL	50 mL 50 mL	41929 42327	12/15/22 14:21 12/21/22 07:53	KS CH	EET MID EET MID

Laboratory References:

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

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Received by OCD: 1/11/2023 9:05:28 AM

Accreditation/Certification Summary

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB Job ID: 890-3636-1 SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704400-22-25	06-30-23	

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

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

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB

Method Summary	
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Job ID: 890-3636-1 SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: R & R Environmental & Reclamation LLC Project/Site: Uncle Ches TB Job ID: 890-3636-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3636-1	S-13B	Solid	12/13/22 10:35	12/13/22 12:57	2
890-3636-2	S-14B	Solid	12/13/22 10:40	12/13/22 12:57	7.5
890-3636-3	S-19B	Solid	12/13/22 10:45	12/13/22 12:57	2
890-3636-4	SW-5A	Solid	12/13/22 10:30	12/13/22 12:57	

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Hotels, M(57) 302.7550, Catbad, M(57) 983.119 www.xenco.com Page Manager: R & B C B Company Name: R & A C B WorkConder Comments syname: R & B C B C Avvir, Low and Avvir, Signature Bill to: (if different) Bill to: (if different) Bill to: (if different) WorkConder Comments Signature Signature WorkConder Comments Signature	$\frac{-199}{501} = \frac{2011}{12\cdot12\cdot22} \frac{10\cdot17}{12\cdot12} = \frac{10\cdot17}{12} \frac{10\cdot17}{12} = \frac{10\cdot17}{12} \frac{10\cdot17}{12} = $	-198 Soil 12-18-22 10:45 21 Conp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\frac{-198}{501} = \frac{501}{12 \cdot 12 \cdot 22} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 22} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12 \cdot 12 \cdot 12} \frac{10 \cdot 17}{12 \cdot 12} \frac{10 \cdot 17}{12$		
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Client: R & R Environmental & Reclamation LLC

Login Number: 3636 List Number: 1 Creator: Clifton, Cloe

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

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: R & R Environmental & Reclamation LLC

Login Number: 3636 List Number: 2 Creator: Rodriguez, Leticia

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

Job Number: 890-3636-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 12/14/22 12:10 PM

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

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

District III

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

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

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

CONDITIONS

Operator		OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	174966
		Action Type:
		[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	2/1/2023

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Action 174966