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	NKMW1035732429
District RP	2RP-530
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377	
Contact Name Chase Settle	Contact Telephone 575-748-1471	
Contact email Chase_Settle@eogresources.com Incident # (assigned by OCD) NKMW1035732429		
Contact mailing address 104 S. 4th Street, Artesia, NM 88210		

Location of Release Source

_ Longitude104.13323		
(NAD 83 in decimal degrees to 5 decimal places)		
Site Type Battery		
API# 30-015-28543		
	83 in decimal degrees to 5 decimal places) Site Type Battery	

Unit Letter	Section	Township	Range	County
F	9	195	25E	Eddy

Surface Owner: State Federal Tribal X Private (Name: _____

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)	
	Volume Released (bols)		
X Produced Water	Volume Released (bbls) 30	Volume Recovered (bbls)0	
	Is the concentration of dissolved chloride in the	X Yes No	
	produced water >10,000 mg/l?		
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 Please refer to the attached original C-141 form for 2RP-530 for cause of release and immediate			
action steps. EOG Resources is submitting for closure via the new form to formally close out this			
incident. All sampling and correspondence is also attached.			

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State of New Mexico Oil Conservation Division

Incident ID	NKMW1035732429
District RP	2RP-530
Facility ID	
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?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \checkmark The source of the release has been stopped.

 \square 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: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: Chan Settle	Date: 09/27/2021
_{email:} Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	

Date:

Received by:

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NKMW1035732429
District RP	2RP-530
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Ed	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

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- Photographs including date and GIS information
- _____ Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation blan. 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

orm C-141 Page 4	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application I	NKMW1035732429 2RP-530 ID
regulations all operations all opera	the information given above is true and complete to the be- tors are required to report and/or file certain release notifi- environment. The acceptance of a C-141 report by the OC investigate and remediate contamination that pose a threat stance of a C-141 report does not relieve the operator of re-	cations and perform corrective actions for CD does not relieve the operator of liabil to groundwater, surface water, human h	or releases which may endanger ity should their operations have health or the environment. In
Printed Name:		Title:	
Signature:		Date:	
email:	······	Telephone:	
OCD Only			
Received by:		Date:	

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Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NKMW1035732429
District RP	2RP-530
Facility ID	
Application ID	

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 C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	Approved with Attached Conditions of Approval Denied Deferral Approved
Signature:	Date:

State of New Mexico Oil Conservation Division

Incident ID	NKMW1035732429
District RP	2RP-530
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items	must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NM	IAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	e liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC Dist	rict 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 and regulations all operators are required to report and/or file certain rele may endanger public health or the environment. The acceptance of a C-J should their operations have failed to adequately investigate and remedia human health or the environment. In addition, OCD acceptance of a C-J compliance with any other federal, state, or local laws and/or regulations restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD v	ase notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability te contamination that pose a threat to groundwater, surface water, 41 report does not relieve the operator of responsibility for . The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in
Printed Name: Chase Settle Tit	le: _Rep Safety and Environmental Sr
Printed Name: Chase Settle Tit Signature: Chase Settle Date	e:09/27/2021
email: Chase_Settle@eogresources.com Tele	phone: 575-748-1471
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of lia remediate contamination that poses a threat to groundwater, surface water party of compliance with any other federal, state, or local laws and/or reg	, human health, or the environment nor does not relieve the responsible gulations.
Closure Approved by: Bradford Billings	Date: 09/28/2021
Printed Name: Bradford Billings	Date: 09/28/2021 Title: Envi.Spec.A

RP#:	2RP-530
Location Name:	Marshall APH Battery
Current Status:	Landowner refuses access for remediation until agreement is in place; Agreement in progress.
	Delineation and workplan will be submitted the NM Tech/NMOCD once landowner allows access.

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		RECEIVEI) JUN 1 6 2010
<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Energy Mineral Oil Conse 1220 Sou	f New Mexico 5 and Natural Resources rvation Division th St. Francis Dr.	Form C-14 Revised October 10, 20 Submit 2 Copies to appropria District Office in accordan with Rule 116 on bac side of for
	Release Notificat	e, NM 87505	n
Kmw/0357.32429 Name of Company	OPERATO OGRID Number	Contact	🛛 Initial Report 🗌 Final Report
Yates Petroleum Corporation Address 104 S, 4 TH Street	25575	Amanda Trujillo Telephone No. 575-748-1471	· · · ·
Facility Name Marshall APH Battery	API Number 30-015-28543	Facility Type Battery	Order Number 2RP-
Surface Owner Fee	Mineral Owner Federal		Lease No.
	LOCATIO	ON OF RELEASE	
Unit Letter Section Township F 9 198	RangeFeet from theNort25E1980	h/South Line Feet from th North 1980	e East/West Line County West Eddy
	Latitude <u>N33.1324(</u>) Longitude <u>W104 13323</u> E OF RELEASE	<u>}</u>
Type of Release Produced Water	HATOK	Volume of Release 30	Volume Recovered 0
Source of Release Check Valve Failure		Date and Hour of Occurr 06/06/2010	ence Date and Hour of Discovery 06/06/2010 - PM
Was Immediate Notice Given?	Yes 🗌 No 🗌 Not Required	If YES, To Whom? Mike Bratcher – NMOCI	D/Artesia
By Whom? Amanda Trujillo – Yates Petroleum Co	prporation	Date and Hour · 06/16/2010 pm	
Was a Watercourse Reached?	Yes 🛛 No be Fully.*	If YES, Volume Impactin N/A	ng the Watercourse.
N/A Describe Cause of Problem and Remer Upon Discovery of the spill the proble Describe Area Affected and Cleanup A	m was isolated. A vacuum truck v	as dispatched to recover any	standing fluids.
An approximate size of 15' x 75' was i excavated and disposed of at an NMOO Chlorides once all contaminated mater Engineer); Wellhead Protection Area and enclosed analytical results. I hereby certify that the information giv regulations all operators are required to public health or the environment. The	mpacted. The impacted area is lo CD approved facility. Vertical and ial has been removed. Depth to C h: No; Distance to Surface Wate wen above is true and complete to b report and/or file certain release acceptance of a C-141 report by t	horizontal delineation samp Fround Water: <100' (appr r Body: >1000'; SITE RAN the best of my knowledge an notifications and perform con he NMOCD marked as "Fina	he berm. Soil from the pooling areas will be les will taken and analysis ran for TPH, BTEX and ox. 260', per New Mexico Office of the State IKING IS 0. Based on site ground water quality d understand that pursuant to NMOCD rules and rective actions for releases which may endanger I Report" does not relieve the operator of liability threat to ground water, surface water, human health
	CD acceptance of a C-141 report	does not relieve the operator	of responsibility for compliance with any other
Signature: T. CC	set i	Approved by DistrictSigne	ABY Mile Brenaux
Printed Name: Amanda Trujillo Title: Environmental Scientist		Approval Date: 3/21/	// Expiration Date:
E-mail Address: atrujillo@yatespetrole	um.com	Conditions of Approval:	Attached
1		Remediation per	

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Bratcher, Mike, EMNRD

From:	Amanda Trujillo [atrujillo@yatespetroleum.com]
Sent:	Wednesday, June 16, 2010 5:19 PM
То:	Bratcher, Mike, EMNRD
Cc:	Jerry Fanning
Subject:	Marshall APH Battery
Attachments:	Marshall APH Battery.pdf

Mr. Mike Bratcher:

Page 9 of 50

Yates Petroleum reports a release at the following location:

Marshall APH Battery Sec. 9,Township 19 South, Range 25 East Eddy County Date of Release: 06/06/10 Approximately 30 barrels of produced water were released 0 barrels recovered Cause of release has been Isolated and repairs are in progress Vacuum truck on site recovered standing fluids Site will be evaluated and a work plan for remediation will be submitted for consideration. Attached is the C-141

If you should have any questions please feel free to contact me at the number below.

Amanda N. Trujillo Environmental Scientist Yates Petroleum Corporation Office 575-748-4310 Cell 575-703-6537 Email <u>atrujillo@yatespetroleum.com</u> ۰.

• :



July 17, 2020

Reference No. 11215161

New Mexico Oil Conservation Division District 2 Mr. Robert Hamlet Ms. Victoria Venegas 811 S. First St. Artesia, New Mexico 88210

Dear Ms. Venegas and Mr. Hamlet

Re: Site Assessment and Closure Request Marshall APH Battery Remediation Permit Number 2RP-530 Eddy County, New Mexico

GHD Services Inc. (GHD), on behalf of EOG Resources, Inc. (EOG), respectfully submits this Soil Assessment Report and Request for Closure for the Remediation Permit Number 2RP-530. This Report provides documentation detailing test pit excavation, soil sampling and soil removal at the Marshall APH Battery release location (hereafter referred to as the "Site"). The Site is located in Unit F, Section 9, Township 19 South, Range 25 East, on private land approximately 12 miles southwest of Artesia, in Eddy County, New Mexico (refer to Figure 1). GPS coordinates for the Site are 32.67709 N, -104.49196 W (Figure 1).

1. Release Information and Historical Response Activities

A release of 30 barrels (bbls) of produced water from a failed check valve was discovered at the Site on June 6, 2010. An Initial Form C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) by Yates Petroleum on June 16, 2010 describing an impacted area of approximately 75 feet by 15 feet, fully contained inside of the battery berm south of the tanks. The Initial C-141 form was approved by the NMOCD on March 21, 2011 and assigned incident number 2RP-530.

In December 2018 EOG conducted an assessment of the release area and excavated approximately 1 foot of soils in this area. Using electrical conductivity methods to field screen near-surface soils, EOG generally found soils in the top 6 inches to be in excess of 600 parts per million (ppm) for chlorides and soils at the 1-foot level to be below this threshold. Based on these results, approximately 140 cubic yards (cy) of impacted soils representing the top 1 foot of soils were removed in January 2019 for off-site disposal at the Lea Land LLC disposal facility near Carlsbad, NM. A Photo log of the excavation and summary table of December 2018 EOG EC field screening results are presented in Appendix A.

2. Regulatory Framework

The nearest water well to the Site from which to ascertain depth to water information is located approximately 0.28 miles east/northeast of the Site. Information on this well was obtained from the United

REGISTERED COMPARY FOR

ISO 9001

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States Geological Survey (USGS), National Water Information System and indicates a 2012 depth to water of approximately 120 feet below ground surface (bgs). The New Mexico Office of the State Engineer's (NMOSE) database shows one well (Yellow Tank) located approximately 0.65 miles from the Site with an original depth to water of 260 feet bgs and another Howell Ranch well (Middle Well), located 2.8 miles from the Site with a depth to water listed at 300 feet bgs. The USGS and NMOSE well record information is included in Appendix B.

Additional USGS resources were utilized to determine proximity to surface water features potentially impacting Closure Criteria in accordance with NMAC 19.15.29.12.C. The Site is outside of the limiting distances from any significant watercourse, as defined in 19.15.17.7 NMAC, and therefore a greater than 100 feet depth to groundwater is used to for Closure Criteria. The corresponding cleanup levels from Table 1 19.15.29 NMAC are as follows:

10 mg/kg (milligrams per kilogram) for benzene, 50 mg/kg for BTEX (benzene, toluene, ethylbenzene and xylenes), 2,500 mg/kg for TPH (total petroleum hydrocarbons-full range) and 20,000 mg/kg for chlorides.

However, during the Site Assessment detailed below, a chloride field screening concentration of 600 ppm was used to meet HMAC 19.15.29.13 guidance.

3. Soil Assessment

GHD conducted additional Site assessment of the 2RP-530 release on June 30, 2020. A total of 11 test pits were excavated and soil samples were collected and analyzed to provide confirmation and further vertical delineation of the impacted area (Figure 2).

Under the direction of GHD, EOG's contractor, BDS Oilfield Services (BDS), mobilized to the Site on June 30, 2020, to provide some confirmation and further delineation of the 2019 EOG excavation in the release area. Test pits TP-1 through TP-11 were excavated across the formerly impacted area as depicted on Figure 2. A GHD representative collected samples from the backhoe bucket at two (2) feet depth intervals at each location. Samples were field screened with Hach® chloride QuanTab® test strips and, when petroleum hydrocarbon odors were present, a photo-ionization detector (PID). Only one location, TP-1, exhibited any hydrocarbon odors. Samples at that location showed PID readings of 235.6 and 23.5 ppm at 2- and 4-foot depths, respectively. All chloride field screening results were below the 600 ppm threshold at 2- and at 4- feet bgs. Table 1 presents a summary of chloride field screening and laboratory results for each sample.

Samples were transported under chain-of-custody to Hall Environmental Analysis Laboratory (Hall) of Albuquerque, New Mexico and were analyzed for BTEX by EPA Method 8021, TPH by EPA Method 8015 and chlorides by EPA Method 300. Chloride concentrations in all submitted samples were below the 600 ppm Site closure criteria. Concentrations of BTEX and TPH were all below the laboratory reporting limit (non-detect) for these constituents.

Sample locations and analytical results are presented in Figure 2 – Test Pit Locations and Sample Concentrations Map and are summarized on Table 1– Summary of Soil Analytical Data. Laboratory

analytical reports are included in Appendix C. All excavated soils removed during the GHD Site assessment were placed back in the test pit.

4. **Conclusions and Recommendations**

Based on historical Site data and the recent supplemental Site Assessment, GHD and EOG conclude the following:

- 30 bbls of produced water were released at the Site in June 2010; the release was assigned 2RP-530 by the NMOCD.
- EOG conducted a field screening event in January 2019 using EC as a chloride soil screening tool.
- EOG removed 140 cy of chloride impacted soils from the site and transported them to the Lea Land disposal facility.
- GHD conducted a confirmatory/supplemental Site Assessment on June 30, 2020.
- All laboratory sample results from 11 test pit locations were below 600 ppm for chloride and all hydrocarbon results were non-detect.

4.1 Site Closure Request - 2RP-530

Based on the 2019 EOG Site assessment, soil removal, and the June 2020 supplemental Site assessment, EOG/GHD recommend No Further Action for the Site and request Site Closure for 2RP-530.

Please contact Jeff Walker in Albuquerque at 505-884-0672 or Tom Larson in Midland at 432-203-8671 to discuss further.

Sincerely,

GHD

Jeff Walker **Project Manager**

TL/mk/01

Attachments:

homas Clayon Thomas C. Larson

Operations Manager

Figure 1 – Site Location Map Figure 2 – Site Detail and Analytical Results Map Table 1 – Soil Analytical Data Summary Appendix A – 2019 EOG EC Soils Field Screening Summary and Excavation Photo Log Appendix B – USGS and NMOSE Water Data Appendix C – Analytical Laboratory Reports

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Figures



Data Source: USGS 7.5 Minute Quad "Dayton and Parish Ranch, New Mexico" Lat/Long: 32.67710* North, 104.49179* West

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Filename: LICADIFIestEight Digit. Job Numbers\1121---\11215161-EOG-Marshall APH Battery\11215161-01\11215161-01(001)\11215161-01(001)GN-DL001.dwg
Piot Date: 14 July 2020 12:58 PM

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Tables

Table 1 Marshal APH Battery Summary of Soil Analytical Data											
Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Tota TPH
TP-1-2	2	6/30/2020									
S-11215161-063020-ZC-TP-1-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<8.7	<44.0	<57.7
TP-2-2	2	6/30/2020			_						_
S-11215161-063020-ZC-TP-2-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.2	<46	<60.
TP-3-2	2	6/30/2020									
S-11215161-063020-ZC-TP-3-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.6	<48	<62.6
TP-4-2	2	6/30/2020	والموارد والم	1.00						·	1.11
S-11215161-063020-ZC-TP-4-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.3	<47	<61.3
TP-5-2	2	6/30/2020									
S-11215161-063020-ZC-TP-5-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.4	<47	<61.4
TP-6-2	2	6/30/2020							- Tyr - I	ы с <u>п</u> б	
S-11215161-063020-ZC-TP-6-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<8.5	<43	<56.
TP-7-2 TP-7-2	2	6/30/2020		ndia ka kao		1000				121-1-1	
S-11215161-063020-ZC-TP-7-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.6	<48	<62.6
TP-8-2	2	6/30/2020									
S-11215161-063020-ZC-TP-8-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.3	<47	<61.3
TP-9-2	2	6/30/2020									
S-11215161-063020-ZC-TP-9-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.4	<47	<61.4
TP-10-2	2	6/30/2020							ut hin a	haidhe de	
S-11215161-063020-ZC-TP-10-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.7	<48	<62.7
TP-11-2	2	6/30/2020			1.12						
S-11215161-063020-ZC-TP-11-4'	4	6/30/2020	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.1	<46	<60.1
NMOCD Table 1 Closu	re Limits		10		Total B	TEX: 50			Total TF	PH: 2,500	

Notes:

All sample results are in milligrams per kilogram NMOCD = New Mexico Oil Conservation Division Table 1 Closure Limits = In accordance with 19.15.29 Release Rule NA = Not Analyzed BTEX =Benzene, Toluene, Ethylbenzene, Xylenes TPH = Total Petroleum Hydrocarbons GRO = Gasoline Range Organics DRO = Diesel Range Organics MRO = Motor Oil Range Organics Shading indicates a field screening result

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Appendices

Appendix A 2019 EOG EC Soils Field Screening Summary and Excavation Photo Log

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Marshal APH Battery Summary of Soil Analytical Data						
Area	Depth	EC Reading	Chloride Conversion (ppm)			
S1-6"	6"	0.17	170			
S1-1'	1'	0.16	160			
S2-6"	6"	0.42	420			
S2-1'	1'	0.26	260			
S-3-6"	6"	1.81	1810			
S-3-1'	1'	0.51	510			
S-4-6"	6"	1.16	1160			
S-4-1'	1'	0.43	430			
EC Reading X 1000 ~ ppm						

GHD-11215161

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Photo 1 - Marshal APH Battery





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Excavation Photo Log

GHD | EOG Marshall APH Battery | 11215161 | Page 2



Appendix B USGS and NMOSE Water Data

ard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



E FIS REPORT FOR D	ETAILED LEG	END AND INDEX MAP FOR FIRM PANEL LAYOUT
SPECIAL FLOOD		Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR
AZARD AREAS		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile <i>zone</i>)
		Future Conditions 1% Annual Chance Flood Hazard Zone X
HER AREAS OF		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
LOOD HAZARD		Area with Flood Risk due to LeveeZone D
	NO SCREEN	Area of Minimal Flood Hazard Zone X
OTHER AREAS		Area of Undetermined Flood Hazard Zone
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline
	· · · · · · · · · · · · · · · · · · ·	Hydrographic Feature
MAP PANELS		Digital Data Available No Digital Data Available Unmapped
9	point s	n displayed on the map is an approximate elected by the user and does not represe horitative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/16/2020 at 10:46 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





STATE ENGINEER OFFICE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1	
-----------	--

City <u>City</u> State State State	(A) Owner of well Mro Hugh Kincaldy (Moso	Kineaid)
CityState StateState	Street and Number	
and in loopted in the second second in the second s	City	_ State
Well was drilled under Permit Noand is located in the	Well was drilled under Permit No.	and is located in the
1 1/4	1/4 1/4 of Section	wp
(B) Drilling Contractor License No	(B) Drilling Contractor	License No.
Street and Number	Street and Number 1911 Hormora Dr.	
City	 City	State
Drilling was commenced 1969	Drilling was commenced	
(Plat of 640 agrees) Drilling was completed 5,5 1957	 Drilling was completed	1967

(Plat of 640 acres)

Elevation at top of casing in feet above sea level_____Total depth of well_____

Section 2

PRINCIPAL WATER-BEARING STRATA

NT-	Depth in Feet Thickness in			Description of Water-Bearing Formation
No.	From	То	Feet	
1	275	200] 5	Yellow land (little water)
2	290	303	13	Gando Gravalo Mataro
3				
4				
5				

Section 3				RECOR	D OF CA	SING				
Dia	Pounds	Threads	De	pth	tom Feet Type Shoe		Perforations			
in.	ft.	in	Top	Bottom			From	То		
_7°o ਵ	<u>_2h</u>	<u></u>	1	31.5	<u> </u>	Gallar	280	312		
						-				
Section 4	1	Diameter	RECOF	No. Sa		nd cementing				
Depth in From	То	Hole in in.	Clay	Cerr	ient		Methods Used			
		-				• • • • • • • • • • • • • • • • • • •				
	i		1246447-26-07-20-0 ⁻⁰ 2 ¹⁰ -1		l					

Section 5

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PLUGGING RECORD

A12

License No.

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	275	45	Yellow Yellow	ysillicant entator.
	290	15	<u> 111</u>	Band, Gravel & Mater.
290	303	13	Yellow	
303	31.5	12	Red	Bed.
<u>T, D</u>	315 Ft.			
<u></u>				
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

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			ECORD			
			LOOND			
a o tracerto de la composición de la c	S.	ection 1. GENERA	L INFORMATION	Na sa		····
(A) Owner of well $M_{\bullet}B$	AINCAID P+ 3	28U, Dem 100		'Owne	er's Well No	
Street or Post Office Ad City and State	dress <u>nu. 1.</u> rtesia. New	V Mexico	88210			
.	· ·					
Well was dilled under Permit 1	No. RA-6436	<u>)</u>	and is located	l in the:		
a ¼ ¼	NW ₁₆ SE	K of Section 12	2 Township	195 p.	24E	
, i				*		N.M.F.N
b. Tract No.	of Map No	of	the	N.		···
	C Dia de Ma					
	DI BIOCK INO.	of	the			
			the _ County.			
Subdivision, recorded	in	2	_ County.			<u>,</u>
Subdivision, recorded	in	2	_ County.			
Subdivision, recorded d. X=	in	feet,	_ County.	System	ý • - '	Zone in Grant
Subdivision, recorded d. X= the (B) Drilling Contractor	in feet, Y= fidwell Dri	feet,	_ County.	System	ND#406	. .
Subdivision, recorded d. X= the (B) Drilling Contractor	in feet, Y= fidwell Dri	feet,	_ County.	System	ND#406	
Subdivision, recorded d. X= (B) Drilling Contractor Address Box 17, Rt.	in feet, Y= fidwell Dri l. A	feet, lling rtesia, Ner	County. N.M. Coordinate	System License No 88210	ND#406	Grant
Subdivision, recorded d. X= (B) Drilling Contractor Address Box 17, Rt. eaning out Jan.	in feet, Y= fidwell Dri 1. A	feet, .lling .rtesia, New 1 Feb.4, 197	_ County. N.M. Coordinate Mex1co 29_ Type tools_	System License No 88210	ND#406	Grant
Subdivision, recorded d. X=	in feet, Y= fidwell Dri 1. A	feet, .lling .rtesia, Ner 1 Feb.4, 197	_ County. N.M. Coordinate Mexico	System License No 88210 	ND=406 Size of hole	Grant
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Subdivision, recorded d. X= (B) Drilling Contractor AddressBox 17, Rt. eaning out Drilling-BeganJan. Elevation of land surface or	in feet, Y= fidwell Dri 1. A	feet, .lling .rtesia, New 1 Feb.4, 197 at	_ County. , N.M. Coordinate MEXICO 79 Type tools well is	System License No 88210 ft. Total depth	ND++406 Size of hole of well	Grant
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Subdivision, recorded d. X= (B) Drilling Contractor Address Box 17, Rt. eaning out Jan. Elevation of land surface or Completed well is show	in feet, Y= fidwell Dri 1. A 30, 79Completed allow []. artesia Section 2	feet, .lling .rtesia, Nev 1 Feb.4, 197 .at v an. 2. PRINCIPAL WAT	_ County. , N.M. Coordinate Mex1co 29 Type tools well is Depth to water <u>FER-BEARING ST</u>	System License No 88210 cable ft. Total depth upon completion 'RATA	ND+406 Size of hole of well	Grant Grant 300 ft
Subdivision, recorded d. X=	in feet, Y= fidwell Dri 1. A 30, 79Completed allow []. artesia Section 2	feet, .lling .rtesia, Nev 1 Feb.4, 197 .at v an. 2. PRINCIPAL WAT	_ County. N.M. Coordinate Mexico 29_ Type tools well is Depth to water	System License No 88210 cable ft. Total depth upon completion 'RATA	ND++406 Size of hole of well	Gran Gran ir 300 ft d Yield
Subdivision, recorded d, X= (B) Drilling Contractor Address Box 17, Rt. eaning out Jan. 2 Elevation of land surface or Completed well is A sha	in feet, Y= feet, Y= fidwell Dri 1. A 30, 79Completed allow artesia Section 2 Thickness in Feet	feet, .111ng .rtesia, Nev 1 Feb.4, 197 .at .at	_ County. , N.M. Coordinate Mex1co 29 Type tools well is Depth to water <u>FER-BEARING ST</u>	System License No 88210 cable ft. Total depth upon completion 'RATA	ND=406	Gran ir
Subdivision, recorded d. X=	in feet, Y= feet, Y= fidwell Dri 1. A 30, 79Completed allow artesia Section 2 Thickness in Feet	feet, .lling .rtesia, Nev 1 Feb.4, 197 .at v an. 2. PRINCIPAL WAT	_ County. , N.M. Coordinate Mex1co 29 Type tools well is Depth to water <u>FER-BEARING ST</u>	System License No 88210 cable ft. Total depth upon completion 'RATA	ND=406	Gran
Subdivision, recorded d. X=	in feet, Y= feet, Y= fidwell Dri 1. A 30, 79Completed allow artesia Section 2 Thickness in Feet	feet, .111ng .rtesia, Nev 1 Feb.4, 197 .at .at	_ County. , N.M. Coordinate Mex1co 29 Type tools well is Depth to water <u>FER-BEARING ST</u>	System License No 88210 cable ft. Total depth upon completion 'RATA	ND=406	Gran ir

Section 3. RECORD OF CASING

Diameter	Pounds	Threads	Depth	Depth in Feet		Type of Shoe Perfor				ations
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Shoe	From .	То		
7 ″	20	8	· O	204		collar	none	• ••		
						•				

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		Section	n 4. RECORD OF M	IUDDING AND C	EMENTING
Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of Mud	of Cement	Method of Flacement
		ľ	P		
	<u>.</u>				
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	and a second		Frank	
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Presentation - 1940				ويستعمد والمترابد بطليها التابرا والمست
	new r	20.236 o	wice Property in Providence	C.C.D.L.M. Size of note
tana ara ara ara ara ara tana ara ara ara ara ara tana ara	(15, 58,		ALLENTE THE NEW YOU	1921.5

Section 7. REMARKS AND ADDITIONAL INFORMATION

Cleaned well out to bottom and run 204 feet of 7 inch casing to prevent

cavings from 1001 to 2001 from falling in well.

E ENGINEER OFFIC

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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

MELL RECO<u>RCE Construction</u> Driller

INSTRUCTIONS: This forr ould be executed in triplicate, preferably typewritten, and submitted to appropriate district office ons, except Section 5, shall be answered as completely and accurately possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 ared be completed.





National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geograp United

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site no list =

324041104294801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324041104294801 19S.25E.08.42222

Available data for this site Groundwater: Field measurements

Eddy County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°40'41", Longitude 104°29'48" NAD27 Land-surface elevation 3,539 feet above NAVD88 The depth of the well is 142 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMI **Output formats**

Table of data

Tab-separated data

https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels/?agency_code=USGS&site_no=324041104294801

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Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels/?agency_code=USGS&site_no=324041104294801

U.S. Department of the Interior | U.S. Geological Survey **Title: Groundwater for USA: Water Levels** URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2020-06-12 18:31:29 EDT 0.87 0.64 nadww01

https://nwis.waterdata.usgs.gov/usa/nwis/gwlevels/?agency_code=USGS&site_no=324041104294801

Appendix C Analytical Laboratory Reports

GHD I EOG Marshall APH Battery I 11215161

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2020 Jeff Walker GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX:

OrderNo.: 2007001

RE: Marshall

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/1/2020 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

CLIENT: C	GHD				\mathbf{L}_{i}	ab C	Order: 20070	01	
Project: N	⁄larshall								
Lab ID:	2007001-001	, .	C	ollecti	on Date:	6/3	30/2020 8:40:00 A	M	
Client Sample ID:	S-11215161-063020-ZC-T	P-1-4			Matrix	M	EOH (SOIL)		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Bat	teh ID
EPA METHOD 300	0.0: ANIONS						Ana	alyst:	CAS
Chloride		ND	60		mg/Kg	20	7/1/2020 1:40:53 P	-	53441
FPA METHOD 801	5M/D: DIESEL RANGE OR	GANICS					Ana	alyst:	CLP
Diesel Range Orga		ND	8.7		mg/Kg	1	7/1/2020 11:31:33	-	53438
Motor Oil Range Orga		ND	44		mg/Kg	1	7/1/2020 11:31:33		53438
Surr: DNOP	gamoo (mi co)	91.2	55.1-146		%Rec	1	7/1/2020 11:31:33		53438
EPA METHOD 801	5D: GASOLINE RANGE						Ana	alvst:	NSB
Gasoline Range Or		ND	4,4		mg/Kg	1	7/1/2020 10:30:02		G7005
Surr: BFB	games (GRO)	97.3	66.6-105		%Rec	1	7/1/2020 10:30:02		G7005
EPA METHOD 802							Ana	alvst:	NSB
	ID. VOLATILLO	ND	0.022		mg/Kg	1	7/1/2020 10:30:02	•	B7005
Benzene Toluene		ND	0.022		mg/Kg	1	7/1/2020 10:30:02		B7005
Ethylbenzene		ND	0.044		mg/Kg	1	7/1/2020 10:30:02		B7005
Xylenes, Total		ND	0.088		mg/Kg	1	7/1/2020 10:30:02		B7005
•	orobonzono	103	80-120		%Rec	1	7/1/2020 10:30:02		B7005
Surr: 4-Bromoflu	UIUDEIIZEIIE	100			/01/00				2.0000
		105		'ollecti		6/3	30/2020 9·10·00 A1		
Lab ID: Client Sample ID:	2007001-002 S-11215161-063020-ZC-7			Collecti	on Date:		30/2020 9:10:00 A) EOH (SOIL)		
Lab ID:	2007001-002		C		on Date: Matrix:	M		M	tch ID
Lab ID: Client Sample ID:	2007001-002 S-11215161-063020-ZC-T	`P-2-4	C		on Date: Matrix:	M	EOH (SOIL) Date Analyzed	M Bat	
Lab ID: Client Sample ID: Analyses	2007001-002 S-11215161-063020-ZC-T	`P-2-4	C		on Date: Matrix:	M	EOH (SOIL) Date Analyzed	M Bat	tch ID
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS	⁻ P-2-4 Result 76	C RL		on Date: Matrix: Units	DF	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02	M Bat alyst: AM	tch ID CAS 53441
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS	TP-2-4 Result 76 GANICS	C RL 60		on Date: Matrix: Units mg/Kg	20	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana	M Bat alyst: AM alyst:	tch ID CAS 53441 CLP
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga	2007001-002 S-11215161-063020-ZC-T D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO)	TP-2-4 Result 76 GANICS ND	C RL 60 9.2		on Date: Matrix: Units mg/Kg mg/Kg	: Ml DF 20 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40	M Bat alyst: AM alyst: AM	tch ID CAS 53441 CLP 53438
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Orga	2007001-002 S-11215161-063020-ZC-T D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO)	TP-2-4 Result 76 GANICS ND ND	C RL 60 9.2 46		on Date: Matrix: Units mg/Kg mg/Kg mg/Kg	: Ml DF 20 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40	M Bat alyst: AM alyst: AM	tch ID CAS 53441 CLP 53438 53438
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Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) I5D: GASOLINE RANGE rganics (GRO)	TP-2-4 Result 76 GANICS ND 94.5 ND	C RL 60 9.2 46 55.1-146 4.6		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg	: MI DF 20 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:41:40 Ana 7/1/2020 10:53:36 7/1/2020 10:53:36	M Bat alyst: AM alyst: AM AM alyst: AM AM	tch ID CAS 53441 CLP 53438 53438 53438 S3438 S3438 G7005 G7005
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB EPA METHOD 802	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) I5D: GASOLINE RANGE rganics (GRO)	TP-2-4 Result 76 GANICS ND 94.5 ND 99.2	C RL 60 9.2 46 55.1-146 4.6 66.6-105		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg %Rec	: MI DF 20 1 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:41:40 Ana 7/1/2020 10:53:36 7/1/2020 10:53:36 Ana	M Bat alyst: AM alyst: AM AM alyst: AM AM alyst:	tch ID 53441 CLP 53438 53438 53438 S3438 S3438 G7005 G7005 G7005 NSB
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB EPA METHOD 802 Benzene	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) I5D: GASOLINE RANGE rganics (GRO)	TP-2-4 Result 76 GANICS ND 94.5 ND 99.2 ND	C RL 60 9.2 46 55.1-146 4.6 66.6-105 0.023		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg %Rec mg/Kg	: MI DF 20 1 1 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:41:40 Ana 7/1/2020 10:53:36 7/1/2020 10:53:36 Ana 7/1/2020 10:53:36	M Bat alyst: AM alyst: AM AM alyst: AM alyst: AM	tch ID 53441 CLP 53438 53438 53438 53438 G7005 G7005 G7005 NSB B7005
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB EPA METHOD 802 Benzene Toluene	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) I5D: GASOLINE RANGE rganics (GRO)	TP-2-4 Result 76 GANICS ND 94.5 ND 99.2 ND ND	RL 60 9.2 46 55.1-146 66.6-105 0.023 0.046		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg	: MI DF 20 1 1 1 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:53:36 7/1/2020 10:53:36 Ana 7/1/2020 10:53:36 7/1/2020 10:53:36	M Bat alyst: AM AM AM AM AM AM alyst: AM alyst: AM	tch ID CAS 53441 CLP 53438 53438 53438 S3438 G7005 G7005 G7005 B7005 B7005
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB EPA METHOD 802 Benzene Toluene Ethylbenzene	2007001-002 S-11215161-063020-ZC-7 D.0: ANIONS I5M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) I5D: GASOLINE RANGE rganics (GRO)	TP-2-4 Result 76 GANICS ND 94.5 ND 99.2 ND	RL 60 9.2 46 55.1-146 66.6-105 0.023 0.046 0.046		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg mg/Kg	: MI DF 20 1 1 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:41:40 Ana 7/1/2020 10:53:36 7/1/2020 10:53:36 Ana 7/1/2020 10:53:36	M Bat alyst: AM AM AM AM AM AM alyst: AM AM AM AM	tch ID CAS 53441 CLP 53438 53438 53438 53438 S3438 G7005 G7005 G7005 B7005 B7005 B7005
Lab ID: Client Sample ID: Analyses EPA METHOD 300 Chloride EPA METHOD 801 Diesel Range Orga Motor Oil Range Or Surr: DNOP EPA METHOD 801 Gasoline Range Or Surr: BFB EPA METHOD 802 Benzene Toluene	2007001-002 S-11215161-063020-ZC-T D.0: ANIONS 15M/D: DIESEL RANGE OR nics (DRO) rganics (MRO) 15D: GASOLINE RANGE rganics (GRO) 21B: VOLATILES	TP-2-4 Result 76 GANICS ND 94.5 ND 99.2 ND ND ND ND	RL 60 9.2 46 55.1-146 66.6-105 0.023 0.046		on Date: Matrix: Units mg/Kg mg/Kg %Rec mg/Kg %Rec mg/Kg mg/Kg	20 1 1 1 1 1 1	EOH (SOIL) Date Analyzed Ana 7/1/2020 11:25:02 Ana 7/1/2020 11:41:40 7/1/2020 11:41:40 7/1/2020 11:53:36 7/1/2020 10:53:36 7/1/2020 10:53:36 7/1/2020 10:53:36 7/1/2020 10:53:36 7/1/2020 10:53:36	M Bat alyst: AM AM AM AM AM AM AM AM AM AM AM AM	tch ID CAS 53441 CLP 53438 53438 53438 S3438 S3438 G7005 G7005

Not Detected at the Reporting Limit Practical Quanitative Limit н

ND PQL

% Recovery outside of range due to dilution or matrix S

Analytical Report Lab Order: 2007001

Ε Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range Р RL

Reporting Limit

Page 1 of 13

Released to Imaging: 9/28/2021 2:25:15 PM

Received by OCD: 9/27/2021 4:39:22 PM

Analytical Report

Lab Order: 2007001

Date Reported: 7/6/2020

CLIENT:	GHD			L	ab O	order: 200700	l	
Project:	Marshall							
Lab ID:	2007001-003		Со	llection Date	: 6/3	0/2020 9:25:00 AM		
Client Sample	e ID: S-11215161-063020-Z	C-TP-3-4	C-TP-3-4 Matrix: MEOH (SOIL)					
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID	
EPA METHO	D 300.0: ANIONS					Analy	st: CAS	
Chloride		270	60	mg/Kg	20	7/1/2020 11:37:22 AN	/ 53441	
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	st: CLP	
Diesel Range	e Organics (DRO)	ND	9.6	mg/Kg	1	7/1/2020 11:51:50 AM	1 53438	
Motor Oil Rar	nge Organics (MRO)	ND	48	mg/Kg	1	7/1/2020 11:51:50 AM	1 53438	
Surr: DNO	P	137	55.1-146	%Rec	1	7/1/2020 11:51:50 AN	1 53438	
EPA METHO	D 8015D: GASOLINE RANGE					Analy	st: NSB	
Gasoline Rar	nge Organics (GRO)	ND	4.4	mg/Kg	1	7/1/2020 11:17:24 AM	A G7005:	
Surr: BFB		101	66.6-105	%Rec	1	7/1/2020 11:17:24 AM	A G7005:	
ΕΡΑ ΜΕΤΗΟ	D 8021B: VOLATILES					Analy	st: NSB	
Benzene		ND	0.022	mg/Kg	1	7/1/2020 11:17:24 AM	A B70053	
Toluene		ND	0.044	mg/Kg	1	7/1/2020 11:17:24 AN	A B70053	
Ethylbenzene	9	ND	0.044	mg/Kg	1	7/1/2020 11:17:24 AM	A B70053	
Xylenes, Tota	al	ND	0.087	mg/Kg	1	7/1/2020 11:17:24 AM	A B70053	
Surr: 4-Bro	omofluorobenzene	105	80-120	%Rec	1	7/1/2020 11:17:24 AN	A B70053	

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

Qualifiers: *

Received by OCD: 9/27/2021 4:39:22 PM

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 range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.					Lab Order: 2 Date Reported		1
CLIENT: GHD Project: Marshall				Lab (Order:	2007001	
Lab ID: 2007001-004		C	collection Da	i te: 6/.	30/2020 9:4	0:00 AM	
Client Sample ID: S-11215161-063020-Z0	C-TP-4-4		Mati	ix: M	EOH (SOIL	.)	
Analyses	Result	RL	Qual Unit	s DF	Date Ana	lyzed B	atch ID
EPA METHOD 300.0: ANIONS						Analyst	t: CAS
Chloride	370	60	mg/k	g 20	7/1/2020 1	1:49:44 AM	53441
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	t: CLP
Diesel Range Organics (DRO)	ND	9.3	mg/k	g 1	7/1/2020 1	2:01:59 PM	53438
Motor Oil Range Organics (MRO)	ND	47	mg/k	ig 1	7/1/2020 1	2:01:59 PM	53438
Surr: DNOP	85.3	55.1-146	%Re	c 1	7/1/2020 1	2:01:59 PM	53438
EPA METHOD 8015D: GASOLINE RANGE						Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/k	.g 1	7/1/2020 1	1:40:52 AM	G70053
Surr: BFB	103	66.6-105	%Re	c 1	7/1/2020 1	1:40:52 AM	G70053
EPA METHOD 8021B: VOLATILES						Analyst	t: NSB
Benzene	ND	0.022	mg/k	g 1	7/1/2020 1	1:40:52 AM	B70053
Toluene	ND	0.043	mg/k	.g 1	7/1/2020 1	1:40:52 AM	B70053
Ethylbenzene	ND	0.043	mg/k	ig 1	7/1/2020 1	1:40:52 AM	B70053
Xylenes, Total	ND	0.087	mg/k	-		1:40:52 AM	B70053
Surr: 4-Bromofluorobenzene	107	80-120	%Re	c 1	7/1/2020 1	1:40:52 AM	B70053
Lab ID: 2007001-005		C	Collection Da	nte: 6/2	30/2020 10:	05:00 AM	
Client Sample ID: S-11215161-063020-Z	C-TP-5-4		Mat	rix: M	EOH (SOIL	.)	
Analyses	Result	RL	Qual Unit	s DF	Date Ana	lyzed B	atch ID
EPA METHOD 300.0: ANIONS						Analyst	t: CAS
Chloride	ND	60	mg/k	ig 20	7/1/2020 1	2:02:05 PM	53441
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	t: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/k		7/1/2020 1	2:12:13 PM	53438
Motor Oil Range Organics (MRO)	ND	47	mg/k	.g 1	7/1/2020 1	2:12:13 PM	53438
Surr: DNOP	89.2	55.1-146	%Re	c 1	7/1/2020 1	2:12:13 PM	53438
EPA METHOD 8015D: GASOLINE RANGE						Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/k	(g 1	7/1/2020 1	2:04:38 PM	G7005:
Surr: BFB	101	66.6-105	%Re	c 1	7/1/2020 1	2:04:38 PM	G7005:
EPA METHOD 8021B: VOLATILES						Analyst	t: NSB
Benzene	ND	0.019	mg/k	g 1	7/1/2020 1	2:04:38 PM	B70053
Toluene	ND	0.037	mg/k	(g 1	7/1/2020 1	2:04:38 PM	B70053
Ethylbenzene	ND	0.037	mg/k	-		2:04:38 PM	B70053
Xylenes, Total	ND	0.074	mg/k	.g 1		2:04:38 PM	B70053

105

80-120

В

H

Analytical Report

Released to Imaging: 9/28/2021 2:25:15 PM

* 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 range due to dilution or matrix Е Value above quantitation range J

%Rec

Analyte detected below quantitation limits

1

7/1/2020 12:04:38 PM

Р RL Reporting Limit

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B70053

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. Analyte detected in the associated Method Blank Sample pH Not In Range

Qualifiers:

Analytical Report

Lab Order: 2007001

Date Reported: 7/6/2020

CLIENT:	GHD			L	ab O	order: 200700)1
Project:	Marshall						
Lab ID:	2007001-006		Ca	ollection Date	: 6/3	0/2020 10:40:00 A	M
Client Sample ID	: S-11215161-063020-ZC-	-TP-6-4		Matrix	: MI	EOH (SOIL)	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS					Ana	yst: CAS
Chloride		290	60	mg/Kg	20	7/1/2020 12:14:25 F	M 53441
EPA METHOD 80	15M/D: DIESEL RANGE O	RGANICS				Ana	yst: CLP
Diesel Range Organics (DRO)		ND	8.5	mg/Kg	1	7/1/2020 12:22:23 F	M 53438
Motor Oil Range (Organics (MRO)	ND	. 43	mg/Kg	1	7/1/2020 12:22:23 F	M 53438
Surr: DNOP		89.8	55.1-146	%Rec	1	7/1/2020 12:22:23 F	M 53438
EPA METHOD 80	15D: GASOLINE RANGE					Ana	yst: NSB
Gasoline Range C	Drganics (GRO)	ND	3.7	mg/Kg	1	7/1/2020 12:28:09 F	M G70053
Surr: BFB		102	66.6-105	%Rec	1	7/1/2020 12:28:09 F	M G70053
EPA METHOD 80	21B: VOLATILES					Ana	yst: NSB
Benzene		ND	0.019	mg/Kg	1	7/1/2020 12:28:09 F	M B70053
Toluene		ND	0.037	mg/Kg	1	7/1/2020 12:28:09 F	M B70053
Ethylbenzene		ND	0.037	mg/Kg	1	7/1/2020 12:28:09 F	M B70053
Xylenes, Total		ND	0.074	mg/Kg	1	7/1/2020 12:28:09 F	M B70053
Surr: 4-Bromofluorobenzene		106	80-120	%Rec	1	7/1/2020 12:28:09 F	M B70053

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

Qualifiers:

*

Received by OCD: 9/27/2021 4:39:22 PM

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 range due to dilution or matrix S

Hall Environmental Analysis Laboratory, Inc.

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range

Analyte detected below quantitation limits J Sample pH Not In Range

Р RL Reporting Limit

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Analytical Report

Lab Order: 2007001

Date Reported: 7/6/2020

CLIENT: GHD Project: Marshall				L	ab C	Order: 2007001	
Lab ID: 2007001-007		C	ollectio	on Date	: 6/3	30/2020 10:55:00 AN	1
Client Sample ID: S-11215161-063020-ZC-T	`P-7-4			Matrix	: M	EOH (SOIL)	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analy	st: CAS
Chloride	230	60		mg/Kg	20	7/1/2020 12:26:47 PM	53441
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analy	st: CLP
	ND	9,6		mg/Kg	1	7/1/2020 12:32:32 PM	
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND	9.0 48		mg/Kg	1	7/1/2020 12:32:32 PM	
Surr: DNOP	85.1	55.1-146		%Rec	1	7/1/2020 12:32:32 PM	
EPA METHOD 8015D: GASOLINE RANGE							st: NSB
		10					
Gasoline Range Organics (GRO)	ND	4.3 66.6-105		mg/Kg %Rec	1 1	7/1/2020 12:51:52 PM 7/1/2020 12:51:52 PM	
Surr: BFB	99.5	60.6-105		%Rec	1		
EPA METHOD 8021B: VOLATILES						•	st: NSB
Benzene	ND	0.021		mg/Kg	1	7/1/2020 12:51:52 PN	
Toluene	ND	0.043		mg/Kg	1	7/1/2020 12:51:52 PM	
Ethylbenzene	ND	0.043		mg/Kg	1	7/1/2020 12:51:52 PN	
Xylenes, Total	ND	0.086		mg/Kg	1	7/1/2020 12:51:52 PN	
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/1/2020 12:51:52 PN	1 B70053
Lab ID: 2007001-008		C	ollectio	on Date	: 6/3	30/2020 11:20:00 AM	1
Client Sample ID: S-11215161-063020-ZC-T	°P -8- 4			Matrix	: M]	EOH (SOIL)	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analy	st: CAS
Chloride	73	60		mg/Kg	20	7/1/2020 12:39:09 PM	1 53441
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS			00		Analy	st: CLP
		0.0			4	•	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/1/2020 12:42:40 PM 7/1/2020 12:42:40 PM	
Motor Oil Range Organics (MRO)	ND 113	47 55.1-146		mg/Kg %Rec	1 1	7/1/2020 12:42:40 PM	
	115	55.1-140		701.60	1		
EPA METHOD 8015D: GASOLINE RANGE						-	st: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	7/1/2020 1:15:24 PM	G70053
Surr: BFB	101	66.6-105		%Rec	1	7/1/2020 1:15:24 PM	G70053
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.015		mg/Kg	1	7/1/2020 1:15:24 PM	B70053
Toluene	ND	0.031		mg/Kg	1	7/1/2020 1:15:24 PM	B70053
Ethylbenzene	ND	0.031		mg/Kg	1	7/1/2020 1:15:24 PM	B70053
Xylenes, Total	ND	0.062		mg/Kg	1	7/1/2020 1:15:24 PM	B70053
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/1/2020 1:15:24 PM	B70053
Refer to the QC Summary report and san	nple login che	cklist for fla	igged Q	C data	and p	preservation informati	on.
Ouglifiers: * Value exceeds Maximum Contaminant Level.		В	Analyte	detected in t	he assoc	iated Method Blank	
Qualifiers: * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix		B E	-	detected in t			

D

н

ND

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Value above quantitation range Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 5 of 13

PQL % Recovery outside of range due to dilution or matrix S

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Ε

J

Released to Imaging: 9/28/2021 2:25:15 PM

Analytical Report

Lab Order: 2007001

Date Reported: 7/6/2020

	_						
CLIENT:	GHD			L	ab O	order: 200700)1
Project:	Marshall						
Lab ID:	2007001-009		Co	ollection Date	: 6/3	30/2020 11:40:00 A	M
Client Sample ID	: S-11215161-063020-ZC	-TP-9-4		Matrix	: MI	EOH (SOIL)	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS					Ana	lyst: CAS
Chloride		390	60	mg/Kg	20	7/1/2020 12:51:30 F	PM 53441
EPA METHOD 80)15M/D: DIESEL RANGE O	RGANICS				Ana	lyst: CLP
Diesel Range Organics (DRO)		ND	9.4	mg/Kg	1	7/1/2020 12:52:47 F	PM 53438
Motor Oil Range (Organics (MRO)	ND	47	mg/Kg	1	7/1/2020 12:52:47 F	PM 53438
Surr: DNOP		90.8	55.1-146	%Rec	1	7/1/2020 12:52:47 F	PM 53438
EPA METHOD 80	15D: GASOLINE RANGE					Ana	lyst: NSB
Gasoline Range C	Drganics (GRO)	ND	3.5	mg/Kg	1	7/1/2020 1:39:03 PM	M G7005:
Surr: BFB		101	66.6-105	%Rec	1	7/1/2020 1:39:03 PM	M G7005:
EPA METHOD 80	21B: VOLATILES					Ana	lyst: NSB
Benzene		ND	0.017	mg/Kg	1	7/1/2020 1:39:03 PM	M B70053
Toluene		ND	0.035	mg/Kg	1	7/1/2020 1:39:03 PM	M B70053
Ethylbenzene		ND	0.035	mg/Kg	1	7/1/2020 1:39:03 PM	M B70053
Xylenes, Total		ND	0.069	mg/Kg	1	7/1/2020 1:39:03 PM	M B70053
Surr: 4-Bromof	Surr: 4-Bromofluorobenzene		80-120	%Rec	1	7/1/2020 1:39:03 PM	M B70053

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 PQL

% Recovery outside of range due to dilution or matrix S

Hall Environmental Analysis Laboratory, Inc.

- Analyte detected in the associated Method Blank В Е Value above quantitation range
- Analyte detected below quantitation limits J Sample pH Not In Range Р

RL Reporting Limit Page 6 of 13

Received by OCD: 9/27/2021 4:39:22 PM

Received by OCD: 9/27/2021 4:39:22 PM

Toluene

Qualifiers:

Ethylbenzene

Xylenes, Total

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 7/6/2020				
	GHD Marshall				L	ab C	order: 200700	•1
Lab ID:	2007001-010		С	ollecti	on Date	: 6/3	0/2020 11:50:00 A	M
Client Sample ID:	S-11215161-063020-ZC-7	ГР-10-4			Matrix	: M	EOH (SOIL)	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	D.0: ANIONS						Anal	yst: CAS
Chloride		67	60		mg/Kg	20	7/1/2020 1:28:32 PM	1 53441
EPA METHOD 801	15M/D: DIESEL RANGE OR	GANICS					Anal	yst: CLP
Diesel Range Orga	nics (DRO)	ND	9.7		mg/Kg	1	7/1/2020 1:02:53 PM	-
Motor Oil Range Oi		ND	48		mg/Kg	1	7/1/2020 1:02:53 PM	1 53438
Surr: DNOP		87.7	55.1-146		%Rec	1	7/1/2020 1:02:53 PM	1 53438
EPA METHOD 801	15D: GASOLINE RANGE						Anal	yst: NSB
Gasoline Range Or	rganics (GRO)	ND	4.5		mg/Kg	1	7/1/2020 2:26:14 PM	1 G7005:
Surr: BFB		101	66.6-105		%Rec	1	7/1/2020 2:26:14 PN	1 G7005:
EPA METHOD 802	21B: VOLATILES						Anal	yst: NSB
Benzene		ND	0.022		mg/Kg	1	7/1/2020 2:26:14 PM	1 B70053
Toluene		ND	0.045		mg/Kg	1	7/1/2020 2:26:14 PM	1 B70053
Ethylbenzene		ND	0.045		mg/Kg	1	7/1/2020 2:26:14 PM	1 B70053
Xylenes, Total		ND	0.089		mg/Kg	1	7/1/2020 2:26:14 PM	1 B70053
Surr: 4-Bromoflu	orobenzene	105	80-120		%Rec	1	7/1/2020 2:26:14 PN	1 B70053
Lab ID:	2007001-011		C	ollecti	on Date	: 6/3	30/2020 12:10:00 PI	M
Client Sample ID:	S-11215161-063020-ZC-7	ГР-11-4	Matrix: MEOH (SOIL)					
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS						Anal	yst: CAS
Chloride		140	60		mg/Kg	20	7/1/2020 2:05:34 PN	1 53441
EPA METHOD 801	15M/D: DIESEL RANGE OR	GANICS					Anal	yst: CLP
Diesel Range Orga	inics (DRO)	ND	9.1		mg/Kg	1	7/1/2020 1:12:58 PN	1 53438
Motor Oil Range O		ND	46		mg/Kg	1	7/1/2020 1:12:58 PM	53438
Surr: DNOP		111	55.1-146		%Rec	1	7/1/2020 1:12:58 PN	1 53438
EPA METHOD 801	15D: GASOLINE RANGE						Anal	yst: NSB
Gasoline Range Or	rganics (GRO)	ND	4.4		mg/Kg	1	7/1/2020 2:49:54 PN	1 G7005
Surr: BFB		98.8	66.6-105		%Rec	1	7/1/2020 2:49:54 PN	d G7005
EPA METHOD 802	21B: VOLATILES						Anal	yst: NSB
Benzene		ND	0.022		mg/Kg	1	7/1/2020 2:49:54 PN	1 B70053

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

ND

ND

ND

102

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

Surr: 4-Bromofluorobenzene

Holding times for preparation or analysis exceeded н

ND Not Detected at the Reporting Limit

Practical Quanitative Limit PQL

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

Analyte detected below quantitation limits J

Р Sample pH Not In Range

RL Reporting Limit

0.044

0.044

0.088

80-120

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B70053

B70053

B70053

B70053

7/1/2020 2:49:54 PM

7/1/2020 2:49:54 PM

7/1/2020 2:49:54 PM

7/1/2020 2:49:54 PM

Lab Order: 2007001

Analytical Report

	Analytical Report	
	Lab Order: 2007001	
Hall Environmental Analysis Laboratory, Inc.	Date Reported: 7/6/2020	

CLIENT:	GHD	Lab Order:	2007001
Project:	Marshall		

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 PQL

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в

Е Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range P RL

Reporting Limit

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Released to Imaging: 9/28/2021 2:25:15 PM

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD Project: Marshall

Project: Marsh	all			
Sample ID: MB-53441	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 53441	RunNo: 70052		
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2434229	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-53441	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 53441	RunNo: 70052		
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2434230	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 94.6 90	110	

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limitsP Sample pH Not In Range
- RL Reporting Limit

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WO#:

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

06-Jul-20

Client:	GHD
Project:	Marshall

Project: Marshal		
Sample ID: MB-53426	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 53426	RunNo: 70044
Prep Date: 6/30/2020	Analysis Date: 7/1/2020	SeqNo: 2433515 Units: %Rec
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.5 10.0	00 95.0 55.1 146
Sample ID: MB-53438	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 53438	RunNo: 70044
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2433516 Units: mg/Kg
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	04.0 55.1 146
Surr: DNOP	9.4 10.0	00 94.0 55.1 146
Sample ID: LCS-53426	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 53426	RunNo: 70044
Prep Date: 6/30/2020	Analysis Date: 7/1/2020	SeqNo: 2433518 Units: %Rec
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.00	00 83.0 55.1 146
Sample ID: LCS-53438	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 53438	RunNo: 70044
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2433519 Units: mg/Kg
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50.0	
Surr: DNOP	4.2 5.00	00 83.2 55.1 146
Sample ID: 2007001-011AMS	S SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: S-11215161-0630	020- Batch ID: 53438	RunNo: 70044
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2433704 Units: mg/Kg
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 9.7 48.5	
Surr: DNOP	4.1 4.85	54 84.5 55.1 146
Sample ID: 2007001-011AMS	SD SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: S-11215161-0630	020- Batch ID: 53438	RunNo: 70044
Prep Date: 7/1/2020	Analysis Date: 7/1/2020	SeqNo: 2433705 Units: mg/Kg
Analyte	Result PQL SPK valu	ue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45 10 49.8	35 0 90.0 47.4 136 2.09 43.4
Pualifiers: * Value exceeds Maximum Contamin	nant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix		E Value above quantitation range

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

Received by OCD. s Dd Dd H G

% Recovery outside of range due to dilution or matrix

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

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QC	SUMMARY REPORT	
	Environmental Analysis Laboratory, I	[nc.

Client: GHD

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Project: Marshall

Sample ID: 2007001-01	1AMSD SampT	ype: MS	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: S-11215161	-063020- Batch	1D: 53	438	R	RunNo: 7	0044				
Prep Date: 7/1/2020	Analysis D	ate: 7/	1/2020	S	eqNo: 24	433705	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		4.985		79.8	55.1	146	0	0	

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD

Project: Marshall

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					e	
Client ID: PBS	Batch ID: G70053			RunNo: 70053						
Prep Date:	Analysis E)ate: 7/	1/2020	8	SeqNo: 2	434081	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 1000	5.0	1000		101	66.6	105			
Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	6	
Client ID: LCSS	Batch ID: G70053			RunNo: 70053						
Prep Date:	Analysis D)ate: 7/	1/2020	5	SeqNo: 2	434082	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80	120			

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- J Analyte detected below quantitation limits р Sample pH Not In Range
- RL

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2007001

06-Jul-20

GHD **Client:**

Project: Marshall

Sample ID:	mb1	SampType: MBLK			Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: B70053		RunNo: 70053							
Prep Date:		Analysis E)ate: 7/	1/2020	S	eqNo: 24	434145	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-Brom	ofluorobenzene	1.0		1.000		104	80	120			
Sample ID:	100ng btex lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles	Mr	
Client ID:	LCSS	Batc	n ID: B7	0053	F	RunNo: 70	0053				
Prep Date:		Analysis [)ate: 7 /	1/2020	S	eqNo: 24	434147	Units: mg/K	g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	94.2	80	120			
Toluene		0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene		0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total		2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Brom	ofluorobenzene	1.1		1.000		109	80	120			
Sample ID:	2007001-001ams	Samp	ype: MS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	S-11215161-06302	20- Batc	n ID: B7	0053	F	RunNo: 70	0053				
Prep Date:		Analysis [ate: 7/	2/2020	S	SeqNo: 24	434166	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
· · · ·	<u></u>	Result 0.75	PQL 0.022	SPK value 0.8818	SPK Ref Val 0	%REC 85.4	LowLimit 78.5	HighLimit 119	%RPD	RPDLimit	Qual
Benzene	<u></u>								%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene		0.75	0.022	0.8818	0	85.4	78.5	119	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene		0.75 0.75	0.022 0.044	0.8818 0.8818	0 0.009524	85.4 84.3	78.5 75.7	119 123	%RPD	RPDLimit	Qual
Benzene Foluene Ethylbenzene Kylenes, Total	ofluorobenzene	0.75 0.75 0.73	0.022 0.044 0.044	0.8818 0.8818 0.8818	0 0.009524 0	85.4 84.3 83.2	78.5 75.7 74.3	119 123 126	%RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	ofluorobenzene 2007001-001amsd	0.75 0.75 0.73 2.2 0.96	0.022 0.044 0.044	0.8818 0.8818 0.8818 2.645 0.8818	0 0.009524 0 0	85.4 84.3 83.2 84.3 109	78.5 75.7 74.3 72.9 80	119 123 126 130		RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:		0.75 0.75 0.73 2.2 0.96	0.022 0.044 0.044 0.088	0.8818 0.8818 0.8818 2.645 0.8818	0 0.009524 0 0 Tes	85.4 84.3 83.2 84.3 109	78.5 75.7 74.3 72.9 80 PA Method	119 123 126 130 120		RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	2007001-001amsd	0.75 0.75 0.73 2.2 0.96	0.022 0.044 0.044 0.088 	0.8818 0.8818 0.8818 2.645 0.8818 5D 0053	0 0.009524 0 0 Tes	85.4 84.3 83.2 84.3 109 tCode: Ef	78.5 75.7 74.3 72.9 80 PA Method 0053	119 123 126 130 120	iles	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	2007001-001amsd	0.75 0.75 0.73 2.2 0.96 I Samp [¬] 20- Batc	0.022 0.044 0.044 0.088 	0.8818 0.8818 0.8818 2.645 0.8818 5D 0053 2/2020	0 0.009524 0 0 Tes	85.4 84.3 83.2 84.3 109 tCode: Ef	78.5 75.7 74.3 72.9 80 PA Method 0053	119 123 126 130 120 8021B: Volat	iles	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	2007001-001amsd	0.75 0.75 0.73 2.2 0.96 I Samp [¬] 20- Batc Analysis [0.022 0.044 0.044 0.088 ype: MS h ID: B7 Date: 7/	0.8818 0.8818 0.8818 2.645 0.8818 5D 0053 2/2020	0 0.009524 0 0 Tes F	85.4 84.3 83.2 84.3 109 tCode: Ef RunNo: 7 SeqNo: 24	78.5 75.7 74.3 72.9 80 PA Method 0053 434167	119 123 126 130 120 8021B: Volat	tiles Sg		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	2007001-001amsd	0.75 0.75 0.73 2.2 0.96 I Samp 20- Batc Analysis I Result	0.022 0.044 0.044 0.088 vpe: MS h ID: B7 Date: 7/ PQL	0.8818 0.8818 2.645 0.8818 0.8818 5D 0053 2/2020 SPK value	0 0.009524 0 0 Tes F SPK Ref Val	85.4 84.3 83.2 84.3 109 tCode: Ef RunNo: 7 SeqNo: 24 %REC	78.5 75.7 74.3 72.9 80 PA Method 0053 434167 LowLimit	119 123 126 130 120 8021B: Volat Units: mg/K HighLimit	tiles Sg %RPD	RPDLimit	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date:	2007001-001amsd	0.75 0.75 0.73 2.2 0.96 I Samp 20- Batc Analysis I Result 1.3	0.022 0.044 0.044 0.088 Type: MS h ID: B7 Date: 7/ PQL 0.022	0.8818 0.8818 0.8818 2.645 0.8818 5D 0053 2/2020 SPK value 0.8818	0 0.009524 0 0 Tes F SPK Ref Val 0	85.4 84.3 83.2 84.3 109 tCode: EF RunNo: 70 SeqNo: 24 %REC 148	78.5 75.7 74.3 72.9 80 PA Method 0053 434167 LowLimit 78.5	119 123 126 130 120 8021B: Volat Units: mg/K HighLimit 119	iiles Sg %RPD 53.7	RPDLimit 20	Qual
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2007001-001amsd	0.75 0.75 0.73 2.2 0.96 I Samp 20- Batc Analysis I Result 1.3 1.3	0.022 0.044 0.044 0.088 • ype: MS • h ID: B7 Date: 7/ PQL 0.022 0.044	0.8818 0.8818 0.8818 2.645 0.8818 5D 0053 2/2020 SPK value 0.8818 0.8818	0 0.009524 0 0 Tes F SPK Ref Val 0 0.009524	85.4 84.3 83.2 84.3 109 tCode: Ef RunNo: 70 SeqNo: 24 %REC 148 147	78.5 75.7 74.3 72.9 80 PA Method 0053 434167 LowLimit 78.5 75.7	119 123 126 130 120 8021B: Volat Units: mg/K HighLimit 119 123	tiles (g %RPD 53.7 54.0	RPDLimit 20 20	Qual RS RS

Value D Sampl-H Holdir ND Not D PQL Practi S % Rev

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

% Recovery outside of range due to dilution or matrix

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

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Page 48 of 50		RONMENTAL YSIS RATORY
	Client Name:	GHD
	Received By:	Juan Rojas

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

Sample Log-In Check List

Released to Imaging: 9/28/2021 2:25:15 PM

Client Name: GHD	Work Order Number	: 2007001		RcptNo:	1
Received By: Juan Rojas	7/1/2020 9:20:00 AM		Junivan		
Completed By: Leah Baca Reviewed By:	7/1/2020 9:54:20 AM テイイクロ		Juniang) Lail Ban		
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 🗌		
Sufficient sample volume for indicated test(s))?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properl	y preserved?	Yes 🗹	No 🗌		
B. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sample containers received broke	n?	Yes 🗌		# of preserved	
1. Does paperwork match bottle labels?		Yes 🗹	, , , , , , , , , , , , , , , , , , ,	bottles checked for pH:	
(Note discrepancies on chain of custody)				<pre>(<2 or Adjusted?</pre>	>12 unless noted)
2. Are matrices correctly identified on Chain of	Custody?	Yes ☑ Yes ☑	No 🗌 No 🔲	, lajuolou .	
3. Is it clear what analyses were requested?4. Were all holding times able to be met?		Yes ⊻ Yes ⊻		Checked by:	80 6 7/11
(If no, notify customer for authorization.)		ies 💌			100 111
pecial Handling (if applicable)			·		Je 7/1/20
5. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:		anaranyanang manjaratan di sanjarah sa sa		
By Whom:	Via: [eMail	Phone 🗌 Fax 🛛	In Person	
Regarding:	ar dan sarah tersebut kenangkatan di kenangkan berkangkan di sarah di sarah di sarah di sarah di sarah di sarah				
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition Se 1 3.2 Good	eal Intact Seal No	Seal Date	Signed By		

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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:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	52261
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/28/2021

CONDITIONS

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Action 52261