

January 15, 2020

Reference No. 088210-84

Mr. Bradford Billings Environmental Specialist New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Billings:

#### Re: Site Assessment Summary and Closure Request Galaxy to Hearns Lay Flat Release Site Remediation Permit Number 1RP-5236 Lea County, New Mexico

Dear Mr. Billings:

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), respectfully submits this Assessment Summary and Site Closure request to the New Mexico Oil Conservation Division (NMOCD) for the Remediation Permit Number 1RP-5236. This report provides documentation detailing delineation, soil sampling, remediation and restoration activities at the Galaxy to Hearns Lay Flat release (Site) located in NW/NW quarter (Unit Letter D) of Section 27, T-24-S, R-33E on surface lands administered by the State of New Mexico. The Site is located in Lea County, approximately 22 miles west of Jal, New Mexico. GPS coordinates for the Site are 32.19420N, -103.56710 W (Figure 1).

#### 1. Release Information and Response Activities

On September 29, 2018, a release of approximately 258 barrels (bbls) of reuse water was discovered at the Site. The release occurred when a reuse water transfer line developed a pinhole. The release traveled along Diamond Road and also along a pipeline ROW for approximately 1,000 feet (ft.). A vacuum truck was able to recover approximately 75 bbls. The spill dimensions were calculated to be approximately 1,000 ft. x 5 ft. wide by one ft. depth. EOG reported the release to the NMOCD on a Release Notification form C-141 that was received by NMOCD District 1 on October 16, 2018. The release was assigned a Remediation Permit (RP) Number 1RP-5236. A copy of the C-141 Release Notification is included in Appendix A.

#### 2. Regulatory Framework

GHD characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter, 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 and 100 ft. below ground surface (bgs) based on the nearest water well data collected from the United States Geological Survey (USGS, Appendix B). There are two wells located approximately 1.5 miles north and south of the site with depths to groundwater of 94 and 97 ft. bgs, respectively. A depth to water of between 50 and 100 ft. bgs is also interpreted from the Chevron Texaco Lea County trend map. The lateral extents of the release are greater than 200 ft. of any lakebed, sinkhole, or playa lake and greater than 300 ft. from an occupied residence, school, hospital, institution,





church or wetland. A review of USGS topography maps however indicate the release area is within 300 ft. of a significant watercourse as defined in 19.15.17.7 NMAC. The watercourse is very faint, however, in proximity of the Site and is separated by the raised Diamond Road roadbed. The Site is greater than 1,000 ft. to a freshwater well or spring and is not within a 100-year floodplain or over-lying a subsurface mine. The Site is located in a low karst area. From the NMAC Table 1, the significant watercourse proximity places the Site into the less than 50 ft. to groundwater category. A USGS radius map is presented in Appendix C.

Based on these criteria, the following numerical limits on Table 1 to 19.15.29.12 NMAC closure criteria apply:

Depth to groundwater	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
≤ 50 feet	BTEX	50 mg/kg
	Benzene	10 mg/kg

#### 3. Soil Assessment and Remediation

Prior to initiation of field activities a Right of Entry permit was obtained from the New Mexico State Land Office and a literature and file search was conducted in October 2018, using the State of New Mexico's Archaeological Resources Management System. The Site was cleared for field work after review of existing cultural resource surveys of the area.

Soil assessment and remediation activities were conducted on-Site over several phases. Initial phase being from March 29 through May 15, 2019. Prior to initiating any subsurface activities, a Utility Locate (One-Call) was submitted 48 hours in advance to notify companies with subsurface utilities in the area of the proposed intrusive assessment. A total 45 soil samples were analyzed to assess the horizontal and vertical extent from the approximate 258 (bbl) release.

#### 3.1 Initial Assessment Sampling

GHD and EOG's contractor SDR first mobilized to the Site on April 29, 2019 to assess the nature and extent of the release. Surface staining was observed in the release area immediately adjacent to Diamond Road and travelling south across an east-west access road and then south along an access road parallel to Diamond Road for a total of approximately 1000 feet (ft.). Hand auger borings were dug at 12 locations along the visibly stained release area (Fig. 2) to a depth of one ft. On April 30 and May 1, 2019, a backhoe was used to further assess subsurface conditions at depths of from two to four ft. below surface grade (bgs). Samples were collected from locations all along the length of the release area. Samples were submitted to Hall Environmental Analysis Laboratory (Hall) for analysis of chloride by EPA Method 300.

#### 3.2 Continued Soil Assessment, Excavation and Confirmation Sampling

Laboratory results from the initial Site assessment indicated that further excavation immediately adjacent to the busy roadway would be necessary. As a safety precaution, a traffic control plan was developed to provide for proper signage north and south of the planned excavation area. Once in place, GHD and SDR returned to



the Site to in July 2019 to further assess impacts and to excavate impacted materials down to soil concentrations below the established closure criteria. Between July 16 and August 13, 2019, 62 additional assessment and confirmation samples were collected. The excavation was focused on two areas immediately adjacent to Diamond Road and three areas on the north-south access road just east of the Diamond Road. Impacted areas were excavated to depths of three to four ft. bgs. Conformation samples were collected as the excavations proceeded until all results were below the closure criteria. Samples were again submitted under chain of custody protocol to Hall for analysis of chloride by EPA Method 300.0. All final sample results were below the determined closure criteria for the Site.

The horizontal and vertical excavation extent limits, sample locations and analytical results are presented in Figures 2 and 3 and summarized on Table 1. Laboratory analytical reports are included in Appendix D.

#### 3.2 Site Remediation, Waste Management and Restoration Activities

Between July 27 and August 30, 2019, SDR completed the offsite hauling and transportation of the impacted materials for disposal to the Sundance facility near Eunice, New Mexico. Approximately 600 cubic yards of impacted soils were loaded onto haul trucks and transported to the R360 facility for disposal. Excavated areas were backfilled with clean soils, compacted and regraded to pre-investigation elevations.

A photographic log documenting Site conditions during excavation, backfilling and remediation activities is provided in Appendix E. Waste hauling manifests are included in Appendix F.

#### 4. Closure Request-1RP-5236GAa

The marginal significant watercourse west of the Site was always protected from the release of reuse water from by the raised county roadway. Based on this circumstance, a greater than 51 ft. depth to groundwater, the removal of 600 cubic yards of impacted soils and analyses of 105 soil samples, GHD and EOG believe the remedial actions to date are protective of human health and the environment and request Site closure and No Further Action status be granted for the 2RP-5236 release.

Sincerely,

GHD

usti hisa

Justin Nixon Project Manager

TL/1

Attachments:

Maller

Jeff Walker Senior Project Manager

Figure 1 – Site Location Map Figure 2 – Assessment Sample Location Map Figure 3 – Confirmation Sample Location Map Table 1 – Soil Analytical Data Summary – Confirmation Sampling Appendix A - NMOCD C-141 Form (1RP-5236) Appendix B - USGS Water Well Information



Appendix C – USGS Radius Map Appendix D - Analytical Laboratory Reports Appendix E - Photographic Log Appendix F – Waste Disposal Manifests

GHD EOG Galaxy to Hearn's Lay Flat 088210-84

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# Figures

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EOG RRESOURCES GALAXY TO HEARNS LAY FLAT LEA COUNTY, NM

088210-84 Nov 19, 2019

#### SITE LOCATION MAP

GIS File: N:\US\Midland\Legacy\Projects\_In\_Progress\Artesia-Phil\EOG\Galaxy to Hearns\MAPS\GALAXY FIG.1.mxd

FIGURE 1





GIS File: N:\US\Midland\Projects\Legacy\Projects\_In\_Progress\Artesia-Phil\EOG\Galaxy to Hearns\MAPS\GALAXY FIG.2.mxd





GIS File: N:\US\Midland\Projects\Legacy\Projects\_In\_Progress\Artesia-Phil\EOG\Galaxy to Hearns\MAPS\GALAXY FIG.3.mxd

## Table

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# Table 1Summary of Soil Analytical DataGalaxy to Hearns Lay Flat

Galaxy to Hearns Lay Flat				
Sample ID	Depth (feet)	Date	Chloride	
S-088210-84-042919-JP-HA-1-1'	1	4/29/2019	310	
S-088210-84-042919-JP-HA-2-1'	1	4/29/2019	360	
S-088210-84-042919-JP-HA-3-1'	1	4/29/2019	<63	
S-088210-84-042919-JP-HA-4-1'	1	4/29/2019	140	
S-088210-84-042919-JP-HA-5-1'	1	4/29/2019	<76	
S-088210-84-042919-JP-HA-6-1'	1	4/29/2019	<69	
S-088210-84-042919-JP-HA-7-1'	1	4/29/2019	<69	
S-088210-84-042919-JP-HA-8-1'	1	4/29/2019	<73	
S-088210-84-042919-JP-HA-9-1'	1	4/29/2019	1800	
S-088210-84-042919-JP-HA-10-1'	1	4/29/2019	<70	
S-088210-84-042919-JP-HA-11-1'	1	4/29/2019	<64	
S-088210-84-042919-JP-HA-12-1'	1	4/29/2019	ND	
S-088210-84-071719-JP-TP-1-2'	2	7/17/2019	130	
S-088210-84-071719-JP-TP-1-4'	4	7/17/2019	290	
S-088210-84-071719-JP-TP-2-2'	2	7/17/2019	<59	
S-088210-84-071719-JP-TP-2-4'	4	7/17/2019	91	
S-088210-84-071719-JP-TP-3-2'	2	7/17/2019	<60	
S-088210-84-071719-JP-TP-3-4'	4	7/17/2019	240	
S-088210-84-071719-JP-TP-4-2'	2	7/17/2019	130	
S-088210-84-071719-JP-TP-4-4'	4	7/17/2019	960	
S-088210-84-072919-JP-TP-5-2'	2	7/29/2019	120	
S-088210-84-072919-JP-TP-5-4'	4	7/29/2019	260	
S-088210-84-050119-PL-TP-6-2'	2	5/1/2019	<67	
S-088210-84-050119-PL-TP-6-3'	3	5/1/2019	390	
S-088210-84-050119-PL-TP-7-2'	2	5/1/2019	810	
S-088210-84-050119-PL-TP-8-1'	1	5/1/2019	<63	
S-088210-84-050119-PL-TP-9-2'	2	5/1/2019	<67	
S-088210-84-050119-PL-TP-9-4'	4	5/1/2019	<68	
S-088210-84-050119-PL-TP-10-2'	2	5/1/2019	<67	
S-088210-84-050119-PL-TP-10-3'	3	5/1/2019	<70	
S-088210-84-050119-PL-TP-11-2'	2	5/1/2019	330	
S-088210-84-043019-JP-TP-12-2'	2	4/30/2019	150	
S-088210-84-043019-JP-TP-12-3'	3	4/30/2019	160	
S-088210-84-043019-JP-TP-13-2'	2	4/30/2019	380	
S-088210-84-043019-JP-TP-13-3	3	4/30/2019	1600	
S-088210-84-043019-JP-TP-14-2'	2	4/30/2019	1100	
S-088210-84-043019-JP-TP-14-2 S-088210-84-043019-JP-TP-14-3'	3	4/30/2019	1700	
S-088210-84-043019-JP-TP-14-3	2	4/30/2019	1900	
S-088210-84-043019-JP-TP-15-2 S-088210-84-043019-JP-TP-15-3'	3	4/30/2019	2700	
	2			
S-088210-84-043019-JP-TP-16-2'		4/30/2019	1300	
S-088210-84-043019-JP-TP-16-3'	3	4/30/2019	260	
S-088210-84-043019-JP-TP-17-2'	2	4/30/2019	1900	
S-088210-84-043019-JP-TP-17-3'	3	4/30/2019	220	
S-088210-84-043019-JP-TP-18-2'	2	4/30/2019	2500	

GHD-088210-84

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# Table 1Summary of Soil Analytical DataGalaxy to Hearns Lay Flat

Galaxy to Hearns Lay Flat				
Sample ID	Depth (feet)	Date	Chloride	
S-088210-84-043019-JP-TP-18-3'	3	4/30/2019	1900	
S-088210-84-043019-JP-TP-19-2'	2	4/30/2019	130	
S-088210-84-043019-JP-TP-19-3'	3	4/30/2019	330	
S-088210-84-043019-JP-TP-20-2'	2	4/30/2019	680	
S-088210-84-043019-JP-TP-20-4'	4	4/30/2019	<65	
S-088210-84-043019-JP-TP-21-2'	2	4/30/2019	<66	
S-088210-84-043019-JP-TP-21-3'	3	4/30/2019	240	
S-088210-84-051119-PL-TP-22-2'	2	5/1/2019	<66	
S-088210-84-050119-PL-TP-22-3'	3	5/1/2019	<64	
S-088210-84-071619-JP-TP-23-2'	2	7/16/2019	700	
S-088210-84-071619-JP-TP-23-4'	4	7/16/2019	590	
S-088210-84-071619-JP-TP-24-2'	2	7/16/2019	220	
S-088210-84-071619-JP-TP-24-4'	4	7/16/2019	<60	
S-088210-84-071619-JP-TP-25-2'	2	7/16/2019	360	
S-088210-84-071619-JP-TP-25-4'	4	7/16/2019	290	
S-088210-84-071619-JP-TP-26-2'	2	7/16/2019	<60	
S-088210-84-071619-JP-TP-26-4'	4	7/16/2019	98	
S-088210-84-071619-JP-TP-27-2'	2	7/16/2019	580	
S-088210-84-071619-JP-TP-27-4'	4	7/16/2019	140	
S-088210-84-071619-JP-TP-28-2'	2	7/16/2019	<60	
S-088210-84-071619-JP-TP-28-4'	4	7/16/2019	<60	
S-088210-84-071619-JP-TP-29-2'	2	7/16/2019	130	
S-088210-84-071619-JP-TP-29-4'	4	7/16/2019	220	
S-088210-84-071619-JP-TP-30-2'	2	7/16/2019	690	
S-088210-84-071619-JP-TP-30-4'	4	7/16/2019	1700	
S-088210-84-071619-JP-TP-31-2'	2	7/16/2019	61	
S-088210-84-071619-JP-TP-31-4'	4	7/16/2019	<59	
S-088210-84-071719-JP-TP-32-2'	2	7/17/2019	610	
S-088210-84-071719-JP-TP-32-4'	4	7/17/2019	<60	
S-088210-84-072419-JP-SW-1-3'	3	7/24/2019	1100	
S-088210-84-080219-JP-SW-1B-3	3	8/2/2019	390	
S-088210-84-072419-JP-SW-2-3'	3	7/24/2019	<60	
S-088210-84-072419-JP-SW-3-3'	3	7/24/2019	<60	
S-088210-84-072419-JP-SW-4-3'	3	7/24/2019	<60	
S-088210-84-072419-JP-SW-5-3'	3	7/24/2019	3500	
S-088210-84-080219-JP-SW-5b-3	3	8/2/2019	<60	
S-088210-84-073019-JP-SW-6-3'	3	7/30/2019	<60	
S-088210-84-072919-JP-SW-7-3'	3	7/29/2019	<60	
S-088210-84-082619-JP-SW-9-3'	3	8/26/2019	240	
S-088210-84-082619-JP-SW-10-3'	3	8/26/2019	<60	
S-088210-84-073019-JP-SW-11-2'	2	7/30/2019	<59	
S-088210-84-073019-JP-SW-12-2'	2	7/30/2019	<61	
S-088210-84-073019-JP-SW-13-2'	2	7/30/2019	<60	
S-088210-84-073019-JP-SW-14-2'	2	7/30/2019	<60	

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#### Page 3 of 3

Table 1
Summary of Soil Analytical Data
Galaxy to Hearns Lay Flat

Sample ID	Depth (feet)	Date	Chloride
S-088210-84-073119-JP-SW-15-2	2	7/31/2019	1100
S-088210-84-073119-JP-SW-15-4	4	7/31/2019	770
S-088210-84-080919-JP-SW-15b-3	3	8/9/2019	<60
S-088210-84-080619-JP-SW-19-3'	3	8/6/2019	370
S-088210-84-080619-JP-SW-20-3'	3	8/6/2019	370
S-088210-84-080619-JP-SW-21-3'	3	8/6/2019	<60
S-088210-84-080619-JP-SW-22-3'	3	8/6/2019	<60
S-088210-84-080619-JP-SW-23-3'	3	8/6/2019	<60
S-088210-84-080619-JP-SW-24-3'	3	8/6/2019	540
S-088210-84-080619-JP-SW-25-3'	3	8/6/2019	<61
S-088210-84-080919-JP-SW-26-3'	3	8/9/2019	110
S-088210-84-080919-JP-SW-27-3'	3	8/9/2019	<60
S-088210-84-080919-JP-SW-28-3'	3	8/9/2019	460
S-088210-84-081219-JP-SW-28b-3'	3	8/12/2019	480
S-088210-84-080919-JP-SW-29-3'	3	8/9/2019	<60
S-088210-84-081219-JP-SW-29b-3'	3	8/12/2019	<60
S-088210-84-080919-JP-SW-156-3'	3	8/9/2019	<60
S-088210-84-081319-JP-SW-30-3'	3	8/13/2019	100
S-088210-84-081319-JP-SW-31-3'	3	8/13/2019	92
S-088210-84-081419-JP-SW-32-3'	3	8/13/2019	330
S-088210-84-081419-JP-SW-34-4'	4	8/13/2019	100
S-088210-84-071719-JP-SS-R-2'	2	7/17/2019	<60
NMOCD Table 1 C	losure Limits	I	600

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

Yellow Shaded cells = concentrations above Closure Criteria established for site

# **Appendices**

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# Appendix A NMOCD C-141 Form

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NOY1828940305
District RP	
Facility ID	1RF-25
Application ID	pOY1828939480

## **Release Notification**

#### **Responsible Party**

Responsible Party: EOG Resources, Inc.	OGRID: 7377		
Contact Name: Jamon Hohensee	Contact Telephone: 432-556-8074		
Contact email: jamon_hohensee@eogresources.com	Incident # (assigned by OCD)	NOY1828940305	
Contact mailing address: 5509 Champions Dr., Midland Tex 79706	as		

#### Location of Release Source

Latitude		32.19420		Longitude	-103.56710
			(NAD 83 in deci	imal degrees to 5 decimal places)	
Site Name: G	alaxy to Hea	rns layflat line		Site Type: Layflat line	
Date Release Discovered: 9/29/2018				API# (if applicable)	
Unit Letter	Section	Township	Range	County	State minorale

Unit Letter	Section	Township	Range	County	State minerals	
 D	27	24S	33E			

Surface Owner: 🛛 State 🗌 Federal 🔲 Tribal 🗌 Private (Name: \_\_\_\_\_\_

#### Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 258 bbls	Volume Recovered (bbls) 75bbls
	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:

On 9/29/2018 a layflat reuse water transfer line developed a pinhole leak that released 258 bbls of reuse water along Diamond Rd 1 mile south of Hwy 128. The release traveled along Diamond road and down a pipeline ROW for approx. 1000ft. Vac trucks were called and collected 75bbls that were then transferred to EOG water tanks that were in close proximity to the spill. It was calculated that the spill dimensions were approx. 1000' (length) x 5' (wide) x1' (avg depth). Recent rains and a soil porosity of .29 for a fine sandy loam, a calculated 258bbls of reuse water was released.

Received	by	OCD:	6/8/2023	1:30:25	PM
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Form C-

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141	State of New Mexico
	Oil Conservation Division

Incident ID	NOY1828940305				
District RP					
Facility ID	1RF-25				
Application ID	pOY1828939480				

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? Released over 25bbls of produced water.
24hr notice was not giver	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? to the OCD due to the initial report of the spill was below the 25bbls threshold and in a non-sensitive area. A as made on 10-1-18 and a voice message was left with Jim Griswold on 10-1-18 as well.

#### **Initial Response**

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

 $\boxtimes$  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.

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

If all the actions described above have not been undertaken, explain why: Vac trucks were called to recover as much fluids as possible at release point. Initial response personnel saw small area of pooled fluids and assumed they were contained to that terminus area.

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: Jamon Hohensee Title: Environmental Representative

Signature:

Date: \_//-8-18

Telephone: 432-556-8074

Date:

OCD Only	RECEIVED
Received by:	By Olivia Yu at 11:01 am, Oct 16, 2018

email: jamon hohensee@eogresources.com

Received by OCD: 6/8/2023 1:30:25 PM

State of New Mexico

Page 3

Form C-141

Oil Conservation Division

Incident ID	NOY1828940305	
District RP		
Facility ID		
Application ID		

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## 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?	UNK (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?	Ves 🗌 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?	$\Box$ Yes $\bigvee$ 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 <b>not</b> on an exploration, development, production, or storage site?	TYes 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

 $\mathbf{Z}$ , Data table of soil contaminant concentration data

Depth to water determination

Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release

Boring or excavation logs

Photographs including date and GIS information

Topographic/Aerial maps

Z 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.

	23 1:30:25 PM					Page 18 of
Form C-141 State of New Mexico				ncident ID	NOY182894	10305
Page 4 Oil Conservation Divis		on		District RP	110110200	
				Facility ID		
				Application ID		
regulations all operators are public health or the environ failed to adequately investig	ormation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by ti gate and remediate contamination that pose a of a C-141 report does not relieve the operato	notifications and p he OCD does not a threat to groundw	perform correction cor	ective actions for rel perator of liability sh water, human health	eases which may hould their operated or the environm	v endanger tions have hent. In
- -	s Kennedy	Title:	Environr	nental Superv	visor	
Printed Name: Jame	es Kennedy as F Kennedy	Title: Date: 01/1		nental Superv	visor	
Printed Name: Jame Signature: Jame	es Kennedy as F Kennedy nnedy@eogresources.com	Date: 01/1	5/2020	nental Superv 348-9146	visor	

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State of New Mexico

Page 6

Form C-141

Oil Conservation Division

Incident ID	NOY1828940305	
District RP		
Facility ID		
Application ID		

## Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: James Kennedy Title: Environmental Supervisor Signature: James F Kennedy Date: 01/15/2020 email: james\_kennedy@eogresources.com Telephone: 432-848-9146 email: Telephone: **OCD** Only Jocelyn Harimon 06/08/2023 Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by:Ashley MaxwellDate:6/23/2023Printed Name:Ashley MaxwellTitle:Environme Printed Name: Title: Environmental Specialist

# Appendix B USGS Water Well Information

USGS Home Contact USGS Search USGS

Science for a changing world

**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:Geographic Area:Groundwater▼United States▼

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- Please see news on new formats
- Full News 🔊

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

• 321017103343201

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 321017103343201 24S.33E.33.23231

Available data for this site Groundwater: Field measurements **V** GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°10'17", Longitude 103°34'32" NAD27 Land-surface elevation 3,475 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer.



Table of data
Tab-separated data
Graph of data
Reselect period



#### USGS 321017103343201 245,33E,33,23231

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

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

AccessibilityPlug-InsFOIAPrivacyPolicies and NoticesU.S. Department of the InteriorU.S. Geological Survey

Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-04-24 18:55:25 EDT 1.03 0.97 nadww01

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Science for a changing world

**National Water Information System: Web Interface** 

**USGS Water Resources** 

Data Category:Geographic Area:Groundwater▼United States▼

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- Full News 🔊

Groundwater levels for the Nation

### Search Results -- 1 sites found

site\_no list =

• 321236103350101

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 321236103350101 24S.33E.17.444414

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code --Latitude 32°12'36", Longitude 103°35'01" NAD27 Land-surface elevation 3,573 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer.



Table of data	
Tab-separated data	
Graph of data	
Reselect period	



#### USGS 321236103350101 245,33E,17,444414

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

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

AccessibilityPlug-InsFOIAPrivacyPolicies and NoticesU.S. Department of the InteriorU.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: 2019-04-24 19:02:05 EDT 0.93 0.88 nadww01

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USGS Well 97' DTW

Owl Landfill

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1 mi

## Galaxy to Hearns Layflat Line

USGS Well 94' DTW

Google Earth © 2018 Google

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# Appendix C USGS Radius Map

GHD | Galaxy to Hearns Lay Flat Release Assessment Summary and Closure Report | 088210-84 (01)

Received by OCD: 6/8/2023 1:30:25 PM



# Appendix D Analytical Laboratory Reports



May 08, 2019

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

RE: Galaxy to Hearns

OrderNo.: 1905147

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 12 sample(s) on 5/2/2019 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

1 of 4

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Analytical Report Lab Order: 1905147

Hall Environ	mental Analysis	Laboratory, I	nc.				Lab Order:         1905147           Date Reported:         5/8/2	019
	GHD Galaxy to Hearns				L	ab C	<b>)rder:</b> 19051	47
Lab ID:	1905147-001		C	ollecti	on Date	: 4/2	29/2019 12:20:00 P	M
Client Sample ID:	S-088210-84-042919-J	P-HA-1-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	JRE						Ana	lyst: <b>JMR</b>
Percent Moisture		15	1.0		wt%	1	5/6/2019 1:27:00 P	M R5966
EPA METHOD 300	0.0: ANIONS						Ana	lyst: <b>smb</b>
Chloride		310	70		mg/Kg-o	dr 20	5/3/2019 7:14:21 P	M 44716
Lab ID:	1905147-002		С	ollecti	on Date	: 4/2	29/2019 12:30:00 P	М
Client Sample ID:	S-088210-84-042919-J	P-HA-2-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	lyst: <b>JMR</b>
Percent Moisture		6.8	1.0		wt%	1	5/6/2019 1:27:00 P	-
EPA METHOD 300	0.0: ANIONS						Ana	lyst: <b>smb</b>
Chloride		360	64		mg/Kg-o	dr 20	5/3/2019 7:26:46 P	M 44716
Lab ID:	1905147-003		C	ollecti	on Date	: 4/2	29/2019 12:40:00 P	М
Client Sample ID:	S-088210-84-042919-J	Р-НА-3-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	lyst: <b>JMR</b>
Percent Moisture		4.6	1.0		wt%	1	5/6/2019 1:27:00 P	-
EPA METHOD 300	0.0: ANIONS						Ana	lyst: <b>smb</b>
Chloride		ND	63		mg/Kg-o	dr 20	5/3/2019 7:39:11 P	M 44716
Lab ID:	1905147-004		С	ollecti	on Date	: 4/2	29/2019 12:50:00 P	M
Client Sample ID:	S-088210-84-042919-J	P-HA-4-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	JRE						Ana	lyst: <b>JMR</b>
Percent Moisture		14	1.0		wt%	1	5/6/2019 1:27:00 P	-
EPA METHOD 300	0.0: ANIONS						Ana	lyst: <b>smb</b>
Chloride		140	70		mg/Kg-o	dr 20	5/3/2019 7:51:36 P	M 44716

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

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
<b>C</b>	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	Dese
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

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Analytical Report
Lab Order: 1905147

Date Reported: 5/8/2019

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CLIENT: C	GHD				T.	ah C	<b>Order:</b> 1905	147
	Galaxy to Hearns				Ľ		1705	
Lab ID:	1905147-005		C	ollecti	on Date	: 4/2	29/2019 12:56:00	PM
Client Sample ID:	S-088210-84-042919-J	Р-НА-5-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	JRE						An	alyst: <b>JMR</b>
Percent Moisture		20	1.0		wt%	1	5/6/2019 1:27:00 F	-
EPA METHOD 300	0.0: ANIONS						An	alyst: <b>smb</b>
Chloride		ND	76		mg/Kg-o	dr 20	5/3/2019 8:04:01 F	PM 44716
Lab ID:	1905147-006			allaati	on Doto	• 1/2	29/2019 1:15:00 P	M
	S-088210-84-042919-J	р на 61	C	onecu	Matrix			
-	<b>J-066210-64-042919-J</b>			0.1				
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	JRE						An	alyst: <b>JMR</b>
Percent Moisture		13	1.0		wt%	1	5/6/2019 1:27:00 F	PM R59667
EPA METHOD 300	0.0: ANIONS						An	alyst: <b>smb</b>
Chloride		ND	69		mg/Kg-o	dr 20	5/3/2019 8:16:25 F	PM 44716
Lab ID:	1905147-007		C	ollecti	on Date	: 4/2	29/2019 1:20:00 P	M
Client Sample ID:	S-088210-84-042919-J	P-HA-7-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	JRE						An	alyst: <b>JMR</b>
Percent Moisture		14	1.0		wt%	1	5/6/2019 1:27:00 F	-
EPA METHOD 300	0.0: ANIONS						An	alyst: <b>smb</b>
Chloride		ND	69		mg/Kg-o	dr 20	5/3/2019 8:28:50 F	-
Lab ID:	1905147-008		C	ollecti	on Date	: 4/2	29/2019 1:30:00 P	M
Client Sample ID:		P-HA-8-1			Matrix			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOIST	IPE						٨٣	alyst: <b>JMR</b>
Percent Moisture		18	1.0		wt%	1	5/6/2019 1:27:00 F	-
EPA METHOD 300		10	1.0		¥¥1.70	i		alyst: <b>smb</b>
Chloride		ND	73		ma/Ka-c	dr 20	5/3/2019 8:41:15 F	-
Chionae			10			ai 20	5,0,2010 0.41.101	10

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

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<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
•	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 0 . C 4
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 2 of 4
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

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**Analytical Report** Lab Order: 1905147

Date Reported: 5/8/2019

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CLIENT: G	iHD				L	ab C	<b>Order:</b> 19051	47
Project: G	alaxy to Hearns							
0	5							
Lab ID:	1905147-009		C	ollecti			29/2019 1:45:00 PI	M
Client Sample ID:	S-088210-84-042919-J	P-HA-9-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>
Percent Moisture		4.9	1.0		wt%	1	5/6/2019 1:27:00 F	M R5966
EPA METHOD 300	.0: ANIONS						Ana	alyst: <b>smb</b>
Chloride		1800	63		mg/Kg-o	dr 20	5/3/2019 8:53:40 F	M 44716
Lab ID:	1905147-010		С	ollecti	on Date	: 4/2	29/2019 1:55:00 PI	M
Client Sample ID:	S-088210-84-042919-J	P-HA-10-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>
Percent Moisture		14	1.0		wt%	1	5/6/2019 1:27:00 F	-
EPA METHOD 300	.0: ANIONS						Ana	alyst: <b>smb</b>
Chloride		ND	70		mg/Kg-o	dr 20	5/3/2019 9:06:05 F	•
Lab ID:	1905147-011		С	ollecti	on Date	: 4/2	29/2019 2:10:00 PI	M
Client Sample ID:	S-088210-84-042919-J	P-HA-11-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>
Percent Moisture		4.6	1.0		wt%	1	5/6/2019 1:27:00 P	-
EPA METHOD 300	.0: ANIONS						Ana	alyst: <b>smb</b>
Chloride		ND	64		mg/Kg-o	dr 20	5/3/2019 9:43:19 P	M 44716
Lab ID:	1905147-012		С	ollecti	on Date	: 4/2	29/2019 2:20:00 PI	M
Client Sample ID:	S-088210-84-042919-J	Р-НА-12-1			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>
								-
Percent Moisture		3.4	1.0		wt%	1	5/6/2019 1:27:00 F	'M R5966
Percent Moisture EPA METHOD 300	.0: ANIONS	3.4	1.0		wt%	1		'M R5966 alyst: <b>smb</b>

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
Quannersi	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 2 . C 4
	D Sample Diluted Due to Matrix H Holding times for preparation o ND Not Detected at the Reporting I PQL Practical Quanitative Limit	Practical Quanitative Limit	RL	Reporting Limit	Page 3 of 4
	S	% Recovery outside of range due to dilution or matrix			

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Client: Project:	GHD Galaxy t	o Hearns									
Sample ID:	MB-44716	SampTyp	e: MB	BLK	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batch II	D: <b>44</b>	716	F	RunNo: <b>59</b>	642				
Prep Date:	5/3/2019	Analysis Dat	e: 5/	3/2019	5	BeqNo: <b>20</b>	10555	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-44716	SampTyp	e: LC	s	Tes	tCode: EP	A Method	300.0: Anion	5		
Client ID:	LCSS	Batch II	D: <b>44</b>	716	F	RunNo: <b>59</b>	642				
Prep Date:	5/3/2019	Analysis Dat	e: 5/	3/2019	5	BeqNo: <b>20</b>	10556	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	95.1	90	110			

#### Qualifiers:

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

- 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

WO#: 1905147 08-May-19

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Client N	Name: GHD		Work	Order Num	nber: 190	5147			RcptNo: 1	14
Receive	d By: Jevon Ca	ampisi	5/2/201	9 10:30:00	АМ		Jour C	ampor		
Comple	ted By: Isaiah Or	rtiz ,	5/3/201	9 9:00:54 A	M		T	impui C	2-4	
Reviewe	ed By: YG	513/14								
	B: DAD	573/19								
	of Custody	010111			÷					
- TA	ain of Custody com	plete?			Yes		No		Not Present	
2. How	was the sample deli	vered?			Cou					
					000	1101				
Log In		a second								
J. Was	an attempt made to	cool the samp	bles?		Yes		No			
4 Were	all samples received	d at a tempor	atura of 20° C	to 6 0°C	V.		No		NK 🗖	
4. Were	an samples received	a at a tempera		10 0.0 C	Yes		NO			
5. Samp	ole(s) in proper conta	ainer(s)?			Yes	~	No			
6. Suffic	ient sample volume	for indicated t	est(s)?		Yes		No			
	amples (except VOA			ed?	Yes		No			
	preservative added to				Yes		No		NA 🗌	
0.1101								-		
	vials have zero head				Yes		No		No VOA Vials 🗹	
10, were	any sample contain	ers received t	oroken?		Yes		No	$\checkmark$	# of preserved	/
11.Does	paperwork match bo	ottle labels?			Yes		No		bottles checked for pH:	
	discrepancies on ch		()		103		110		(<2 or >12 unless no	ted)
12. Are m	atrices correctly ider	ntified on Cha	in of Custody?		Yes	$\checkmark$	No		Adjusted?	- 1
	ear what analyses w		1?			$\checkmark$	No			
	all holding times abl notify customer for a		(m)		Yes	$\checkmark$	No		Checked by: DAD 5/3/	19
<u>Special</u>	Handling (if ap	olicable)								
15.Was	client notified of all d	liscrepancies	with this order	?	Yes		No		NA 🗹	
	Person Notified:	r		Date						
	By Whom:	Γ	No	Via:	eM	ail 🗌	Phone	Fax	In Person	
	Regarding:	Γ			and the second	the balance	ander/viente menomologie à			
	Client Instructions:	r			uite 2 - 2 - 11 - 2		-			
16. Addit	ional remarks:									
17. <u>Cool</u>	er Information									
	oler No   Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
1	0.6	Good	Yes							
2	3.6	Good	Yes							

Page 1 of 1

Client:	Chain GHD	-of-C	ustody Record	Turn-Arour					1								ME		
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		On Ice:	Yes	D NO	-	102	s/8(	204	5	s			(Y)	(Pre		5			
□ EDD (Type)			# of Coolers: Z Cooler Temp(including CF): -0.6°C/3.6°C					icide	por	310	leta	NO <sub>3</sub> ,	F	-ir	orm	ethod	Sto		
				Cooler Ten	∩P(including CF): -(	6 c/ 3.6 c	/ MTBE	0151	Pest	Meth	by 8	8 N	F, Br,	10h	(Sen	Colife	AP	is w	
Date	Time	Matrix	Sample Name	Container Type and #		HEAL NO. 1905147	BTEX	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	EPH	2. 4	
+-29-19	1220	5	5-038210-84-042419-3P-HA-1-1	5 mple	In Couler Ice Procks	-001											×	Y	T
1	1230	\$	5-0 88210-84-042919-38-44-2-1	1	1	-002											×	>	T
	1240		5-058210-84-042919-JP-HA-3-1			-003											×	×	
	1250		5-088210-84-042919-38-44-4-1			-004-											×	X	T
	1256		5-088 210-84-042919-38- 14.5-1			-005											×	×	T
	1315		5-088210-84-042919-38-44-6-1			-006											×	×	
	1320		5-088210-84-042919-38-44.7-1			-007											×	2	-
	1330		5-088210-87-042919-38-14.8-1			-008											×	×	
	1345		5-088200-84-042919-38-14-9-1			-009											×	×	
	1355		5-088210-84-042919-39- 144/0-1			-010			1			-					×	×	
	1410		5-088210-84-042919-38-14.11-1			-011											Y	Y	
4	1420	-	5-088210-84-042919-38-14.121	A	4	-012											Y	>	
ate: 5-1-19		Relinquis	Perfus	Received by:	Via:	Date Time 5/1/17 1000	Rem	arks	:										
	Time:	Retinquist	hed by:	Received by:	Via: Courier	Date Time 5-2-1 - 10:3													



May 16, 2019

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

RE: Galaxy to Hearus

OrderNo.: 1905386

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 20 sample(s) on 5/8/2019 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: 1905386

Date Reported: 5/16/2019

	GHD Galaxy to Hearus				L	ab C	<b>Order:</b> 1905	386	
Lab ID:	1905386-001		C	ollecti	on Date	: 4/3	80/2019 1:50:00 P	М	
Client Sample ID:	S-088210-84-043019-J	P-TP-12-2			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
PERCENT MOIST	URE						An	alyst	JMR
Percent Moisture		8.7	1.0		wt%	1	5/9/2019 4:50:00 F	ΡМ	R59779
EPA METHOD 30	0.0: ANIONS						An	alyst	MRA
Chloride		150	65		mg/Kg-o	dr 20	5/10/2019 12:01:0	9 AM	44837
Lab ID:	1905386-002		C	ollecti	on Date	: 4/3	80/2019 2:00:00 P	М	
Client Sample ID:	S-088210-84-043019-J	P-TP-12-3			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
PERCENT MOIST	URE						An	alyst	JMR
Percent Moisture		9.5	1.0		wt%	1	5/9/2019 4:50:00 F	РΜ	R59779
EPA METHOD 30	0.0: ANIONS						An	alyst	MRA
Chloride		160	66		mg/Kg-o	dr 20	5/10/2019 12:13:3	3 AM	44837
Lab ID:	1905386-003		C	ollecti	on Date	: 4/3	80/2019 2:10:00 P	М	
<b>Client Sample ID:</b>	S-088210-84-043019-J	P-TP-13-2			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
PERCENT MOIST	URE						An	alyst	JMR
Percent Moisture		9.1	1.0		wt%	1	5/9/2019 4:50:00 F	РΜ	R59779
EPA METHOD 30	0.0: ANIONS						An	alyst	MRA
Chloride		380	66		mg/Kg-o	dr 20	5/10/2019 6:22:55	PM	44847
Lab ID:	1905386-004		C	ollecti	on Date	: 4/3	80/2019 2:25:00 P	М	
<b>Client Sample ID:</b>	S-088210-84-043019-J	P-TP-13-3			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch ID
PERCENT MOIST	URE						An	alyst	JMR
Percent Moisture		8.9	1.0		wt%	1	5/9/2019 4:50:00 I	РМ	R59779
EPA METHOD 30	0.0: ANIONS						An	alyst	MRA

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

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
<b>x</b>	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 1 . C.C.
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 1 of 6

Released to Imaging: 6/23/2023 8:59:01 AM

S % Recovery outside of range due to dilution or matrix

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Analytical Report Lab Order: 1905386

Hall Environ	Hall Environmental Analysis Laboratory, Inc.						Date Reported: 5/16/2019									
	GHD Galaxy to Hearus				L	ab C	<b>)rder:</b> 19053	86								
Lab ID:	1905386-005		C	ollecti	on Date	: 4/3	30/2019 1:35:00 PM	M								
Client Sample ID:	S-088210-84-043019-JP-T	P-14-2			Matrix	: SC	DIL									
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II								
PERCENT MOIST	JRE						Ana	alyst: <b>JMR</b>								
Percent Moisture		14	1.0		wt%	1	5/9/2019 4:50:00 P	M R597								
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA								
Chloride		1100	70		mg/Kg-o	dr 20	5/10/2019 7:12:34	PM 44847								
Lab ID:	1905386-006		C	ollecti	on Date	: 4/3	30/2019 1:42:00 PM	N								
Client Sample ID:	S-088210-84-043019-JP-T	P-14-3			Matrix	: SC	DIL									
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II								
PERCENT MOIST	JRE						Ana	alyst: <b>JMR</b>								
Percent Moisture		12	1.0		wt%	1	5/9/2019 4:50:00 P	M R597								
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA								
Chloride		1700	68		mg/Kg-o	dr 20	5/10/2019 7:24:58	PM 44847								
Lab ID:	1905386-007		С	ollecti	on Date	: 4/3	30/2019 1:18:00 PM	N								
Client Sample ID:	S-088210-84-043019-JP-T	P-15-2			Matrix	: SC	DIL									
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II								
PERCENT MOIST	JRE						Ana	alyst: <b>JMR</b>								
Percent Moisture		11	1.0		wt%	1	5/9/2019 4:50:00 P	M R597								
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA								
Chloride		1900	67		mg/Kg-o	dr 20	5/10/2019 7:37:23	PM 44847								
Lab ID:	1905386-008		С	ollecti	on Date	: 4/3	80/2019 1:25:00 PM	N								
Client Sample ID:	S-088210-84-043019-JP-T	P-15-3			Matrix	: SC	DIL									
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II								
PERCENT MOIST	JRE						Ana	alyst: <b>JMR</b>								
Percent Moisture		9.6	1.0		wt%	1	5/9/2019 4:50:00 P	M R597								
EPA METHOD 300	.0: ANIONS						Ana	alyst: <b>smb</b>								
Chloride		2700	170		mg/Kg-o	dr 50	5/13/2019 5:52:41	PM 44847								

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

Value exceeds Maximum Contaminant Level. \* Analyte detected in the associated Method Blank **Qualifiers:** в D Sample Diluted Due to Matrix Value above quantitation range Е H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit Р Sample pH Not In Range Page 2 of 6 RL Reporting Limit PQL Practical Quanitative Limit

Released to Imaging: 6/23/2023 8:59:01 AM

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% Recovery outside of range due to dilution or matrix

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**Analytical Report** Lab Order: 1905386

Date Reported: 5/16/2019

	-						-			
	HD				L	ab C	<b>Order:</b> 19053	886		
Project: C	alaxy to Hearus									
Lab ID:	1905386-009		C	ollecti	on Date	: 4/3	30/2019 12:45:00 I	РМ		
Client Sample ID:	S-088210-84-043019-J	P-TP-16-2			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II		
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>		
Percent Moisture		7.9	1.0		wt%	1	5/9/2019 4:50:00 F	M R597		
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA		
Chloride		1300	65		mg/Kg-c	dr 20	5/10/2019 8:27:01	PM 4484		
Lab ID:	1905386-010		C	ollecti	on Date	: 4/3	30/2019 12:50:00 I	РМ		
Client Sample ID:	S-088210-84-043019-J	P-TP-16-3			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II		
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>		
Percent Moisture		8.3	1.0		wt%	1	5/9/2019 4:50:00 F	M R597		
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA		
Chloride		260	65		mg/Kg-c	dr 20	5/10/2019 8:39:26	PM 4484		
Lab ID:	1905386-011		C	ollecti	on Date	: 4/3	30/2019 12:30:00 I	РМ		
Client Sample ID:	S-088210-84-043019-J	P-TP-17-2			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II		
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>		
Percent Moisture		13	1.0		wt%	1	5/9/2019 4:50:00 F	M R597		
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA		
Chloride		1900	69		mg/Kg-c	dr 20	5/10/2019 8:51:51	PM 4484		
Lab ID:	1905386-012		C	ollecti	on Date	: 4/3	30/2019 12:36:00 I	РМ		
Client Sample ID:	S-088210-84-043019-J	P-TP-17-3	Matrix: SOIL							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch II		
PERCENT MOISTU	JRE						Ana	alyst: <b>JMR</b>		
Percent Moisture		10	1.0		wt%	1	5/9/2019 4:50:00 F	-		
EPA METHOD 300	.0: ANIONS						Ana	alyst: MRA		

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

			C		
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
•	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 2 . C.C
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 3 of 6
	S	% Recovery outside of range due to dilution or matrix			

Analytical Report Lab Order: 1905386

Date Reported: 5/16/2019

	GHD Galaxy to Hearus				L	ab C	<b>Order:</b> 19053	386
Lab ID:	1905386-013		C	ollooti	on Data	• 1/3	80/2019 11:20:00	۸M
Client Sample ID:		P-TP-18-2	C	onecu	Matrix			-11/1
Analyses	5-000210-04-043017-31	Result	RL	Qual			Date Analyzed	Batch ID
PERCENT MOISTU	JRE						An	alyst: <b>JMR</b>
Percent Moisture		8.9	1.0		wt%	1	5/9/2019 4:50:00 F	-
EPA METHOD 300	.0: ANIONS						An	alyst: <b>smb</b>
Chloride		2500	160		mg/Kg-o	dr 50	5/13/2019 6:05:06	PM 44847
Lab ID:	1905386-014		С	ollecti	on Date	: 4/3	80/2019 11:25:00	AM
Client Sample ID:	S-088210-84-043019-JJ	P-TP-18-3			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						An	alyst: <b>JMR</b>
Percent Moisture		10	1.0		wt%	1	5/9/2019 4:50:00 F	PM R59779
EPA METHOD 300	.0: ANIONS						An	alyst: <b>MRA</b>
Chloride		1900	67		mg/Kg-o	dr 20	5/10/2019 9:29:06	PM 44847
Lab ID:	1905386-015		C	ollecti	on Date	: 4/3	80/2019 11:05:00	AM
Client Sample ID:	S-088210-84-043019-JJ	P-TP-19-2			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						An	alyst: <b>JMR</b>
Percent Moisture		10	1.0		wt%	1	5/9/2019 4:50:00 F	PM R59779
EPA METHOD 300	.0: ANIONS						An	alyst: MRA
Chloride		130	67		mg/Kg-o	dr 20	5/10/2019 9:41:30	PM 44847
Lab ID:	1905386-016		C	ollecti	on Date	: 4/3	80/2019 11:15:00	AM
Client Sample ID:	S-088210-84-043019-JJ	P-TP-19-3			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
PERCENT MOISTU	JRE						An	alyst: <b>JMR</b>
Percent Moisture		8.9	1.0		wt%	1	5/9/2019 4:50:00 F	-
EPA METHOD 300	.0: ANIONS						An	alyst: MRA

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

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<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
Quantorsi	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 4
	-				

S % Recovery outside of range due to dilution or matrix

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Analytical Report
Lab Order: 1905386

Date Reported: 5/16/2019

					_				
	HD				La	ab C	<b>Order:</b> 19053	386	
Project: C	Balaxy to Hearus								
Lab ID:	1905386-017		C	ollecti	on Date:	4/3	30/2019 10:40:00	AM	
Client Sample ID:	S-088210-84-043019-J	P-TP-20-2			Matrix:	SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						An	alyst:	JMR
Percent Moisture		7.5	1.0		wt%	1	5/9/2019 4:50:00 F	PM	R59779
EPA METHOD 300	.0: ANIONS						An	alyst:	MRA
Chloride		680	65		mg/Kg-d	lr 20	5/10/2019 10:06:2	0 PM	44847
Lab ID:	1905386-018		С	ollecti	on Date:	4/3	30/2019 10:48:00	AM	
Client Sample ID:	S-088210-84-043019-J	P-TP-20-4			Matrix:	SC SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						An	alyst:	JMR
Percent Moisture		8.1	1.0		wt%	1	5/9/2019 4:50:00 F	PM	R59779
EPA METHOD 300	.0: ANIONS						An	alyst:	MRA
Chloride		ND	65		mg/Kg-d	lr 20	5/10/2019 10:18:4	4 PM	44847
Lab ID:	1905386-019		C	ollecti	on Date:	: 4/3	30/2019 1:00:00 P	М	
Client Sample ID:	S-088210-84-043019-J	P-TP-21-2			Matrix:	SC SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						An	alyst:	JMR
Percent Moisture		9.9	1.0		wt%	1	5/9/2019 4:50:00 F	PM	R59779
EPA METHOD 300	.0: ANIONS						An	alyst:	MRA
Chloride		ND	66		mg/Kg-d	lr 20	5/10/2019 10:55:5	8 PM	44847
Lab ID:	1905386-020		C	ollecti	on Date:	: 4/3	30/2019 1:10:00 P	М	
Client Sample ID:	S-088210-84-043019-J	P-TP-21-3			Matrix:	SC:	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						An	alyst:	JMR
Percent Moisture		7.4	1.0		wt%	1	5/9/2019 4:50:00 F	PM	R59779
EPA METHOD 300	.0: ANIONS						An	alyst:	MRA
		240	65				5/10/2019 11:08:2		

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

Value exceeds Maximum Contaminant Level. \* Analyte detected in the associated Method Blank **Qualifiers:** в D Sample Diluted Due to Matrix Value above quantitation range Е H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit Р Sample pH Not In Range Page 5 of 6 RL Reporting Limit PQL Practical Quanitative Limit

Released to Imaging: 6/23/2023 8:59:01 AM

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% Recovery outside of range due to dilution or matrix

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1905386

16-May-19

Client:	GHD														
Project:	Galaxy	to Hearus													
Sample ID <sup>.</sup>	MB-44837	SampTy	ne <b>mh</b>	olk	Tes	tCode: <b>F</b> I	PA Method	300.0: Anion	s						
Client ID:	PBS	1 5	ID: 448			RunNo: 5									
Prep Date:	5/9/2019	Analysis Da	ite: 5/	9/2019	5	SeqNo: 2	016270	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-44837	SampTy	pe: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	S						
Client ID:	LCSS	Batch	ID: 448	837	F	RunNo: 5	9766								
Prep Date:	5/9/2019	Analysis Da	ite: <b>5/</b> 9	9/2019	S	BeqNo: 2	016271	Units: <b>mg/Kg</b>							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
,								5							
Chloride		14	1.5	15.00	0	95.9	90	110							
Chloride	MB-44847	14 SampTy	1.5		0		90	9	s						
Chloride		SampTy	1.5	BLK	0 Tes		90 PA Method	110	S						
Chloride Sample ID:	PBS	SampTy	1.5 pe: ME ID: 448	3LK 847	0 Tes F	tCode: El	90 PA Method 9804	110							
Chloride Sample ID: Client ID:	PBS	SampTy Batch	1.5 pe: ME ID: 448	BLK 847 10/2019	0 Tes F	tCode: El RunNo: 5 SeqNo: 2	90 PA Method 9804 017920	110 300.0: Anion		RPDLimit	Qual				
Chloride Sample ID: Client ID: Prep Date:	PBS	SampTy Batch Analysis Da	1.5 pe: ME ID: 448 ite: 5/	BLK 847 10/2019	0 Tes F	tCode: El RunNo: 5 SeqNo: 2	90 PA Method 9804 017920	110 300.0: Anion: Units: mg/K	g	RPDLimit	Qual				
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride	PBS	SampTy Batch Analysis Da Result	1.5 pe: ME ID: 448 te: 5/ PQL 1.5	BLK 847 10/2019 SPK value	0 Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 2 %REC	90 PA Method 9804 017920 LowLimit	110 300.0: Anion: Units: mg/K	g %RPD	RPDLimit	Qual				
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride	PBS 5/10/2019	SampTy Batch Analysis Da Result ND SampTy	1.5 pe: ME ID: 448 te: 5/ PQL 1.5	BLK B47 10/2019 SPK value	0 Tes F SPK Ref Val Tes	tCode: El RunNo: 5 SeqNo: 2 %REC	90 PA Method 9804 017920 LowLimit PA Method	110 300.0: Anion: Units: mg/K HighLimit	g %RPD	RPDLimit	Qual				
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID:	PBS 5/10/2019	SampTy Batch Analysis Da Result ND SampTy	1.5 pe: ME ID: 448 te: 5/ PQL 1.5 pe: LC ID: 448	BLK 847 10/2019 SPK value S 847	0 Tes SPK Ref Val Tes F	tCode: EI RunNo: 5: SeqNo: 2 %REC tCode: EI	90 PA Method 9804 017920 LowLimit PA Method 9804	110 300.0: Anion: Units: mg/K HighLimit	g %RPD s	RPDLimit	Qual				
Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID:	PBS 5/10/2019	SampTy Batch Analysis Da Result ND SampTy Batch	1.5 pe: ME ID: 448 te: 5/ PQL 1.5 pe: LC ID: 448	BLK 847 10/2019 SPK value S 847 10/2019	0 Tes SPK Ref Val Tes F	tCode: El RunNo: 5 SeqNo: 2 %REC tCode: El RunNo: 5	90 PA Method 9804 017920 LowLimit PA Method 9804	110 300.0: Anion: Units: mg/K HighLimit 300.0: Anion:	g %RPD s	RPDLimit	Qual				

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 range due to dilution or matrix

- 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

Page 6 of 6

	ALL NVIRONMENT Nalysis Aboratory	AL	TE	L: 505-345-3	490 Albuquero 975 FAX:	vsis Laborator 01 Hawkins N que, NM 8710 505-345-410 ronmental.co.	7E 09 <b>Sa</b> 07	ample L	.og-In C	Page 43 heck List
Client Nar	me: GHD		Work	Order Num	ber: 190	5386			RcptNo:	1
Received	By: Isaiah Ort	tiz	5/8/201	9 8:50:00 A	м		I	ox		
Completed Reviewed	1 1	liz	5/8/201 3 Jah	9 10:41:14 9	AM		I	04		
	DAD 5 Custody	18/19								
1 5 PA 1997	n of Custody comp	lete?			Yes		No [	Not F	Present	
2. How wa	is the sample deliv	ered?			Cou	rier				
Log In										
3. Was an	attempt made to c	cool the samp	les?		Yes		No 🗌	]	NA 🗌	
4. Were all	samples received	at a tempera	ture of >0° C	to 6.0°C	Yes		No 🗌	]	NA 🗌	
5. Sample	(s) in proper conta	iner(s)?			Yes		No 🗌	1		
6. Sufficier	it sample volume f	or indicated te	est(s)?		Yes	~	No 🗌			
7. Are sam	ples (except VOA	and ONG) pro	operly preserve	ed?	Yes	~	No 🗌			
8. Was pre	servative added to	bottles?			Yes		No 🔽		NA 🗌	
9. VOA via	ls have zero heads	space?			Yes		No 🗌	No VOA	A Vials 🗹	
10. Were ar	ny sample containe	ers received b	roken?		Yes		No 🔽	# of pre	served	
	perwork match bol screpancies on cha		)		Yes		No 🗌	bottles for pH:	checked (<2 or :	12 unless noted)
12. Are matr	ices correctly iden	tified on Chai	n of Custody?		Yes	V	No 🗌	A	djusted?	
13. Is it clea	r what analyses we	ere requested	?		Yes	~	No 🗌		/	1
	holding times able tify customer for a				Yes		No 🗌	_Ct	necked by: D	DAD 5/8/19
	andling (if app									
15. Was clie	ent notified of all di	iscrepancies v	with this order?	•	Yes		No 🗌	]	NA 🗹	
P	erson Notified:	Γ		Date:	1	-		-		
R	y Whom: egarding:			Via:	🗌 eM	ail 🗌 Phoi	ne 🗌 Fa	ax 🗌 In Pe	erson	
1	ient Instructions:									
	nal remarks:									
	Information		Landa and	Lancoln I	- and a					
Cool	er No Temp °C	Condition	Seal Intact	Seal No	Seal D	ate Si	gned By	1		
2	2.3 2.1	Good Good	Yes Yes				_			

Page 1 of 1

Client:	Gt	+ D	ustody Record	Turn-Around	⊃ □ Rush e:			HALL ENVIRO ANALYSIS LAE www.hallenvironmental.co					BO								
	Address	6121	Indian School	Gal	exy to H	earns	4901 Hawkins NE - Albuquerque, NM 8710					7109									
Phone :	NE #:87112	Suite (505) -:	200 Albuquesque NM 884 0672	Project #:	88210-84			Tel	. 50	5-34	5-39	-	_	ax sis		-	-410 t	7			
email o	r Fax#:	Jef	f. Walter @ ghd. com	Project Mana	iger:			only)	ô	Т				(4)				11			T
QA/QC I	Package:		-7			Ilter	TMB's (8021)	Gas or	DRO / MRO)			SIMS)		PO <sub>4</sub> ,SC	PCB's			52			
Accredi		□ Othe	er	Je Sampler: J On Ice:	Foshing P	igg No	+ TMB's	0	KO / DR	18.1)		8270 S		3,NO2,	/ 8082		(1	1.1.1	25		(N)
	□ EDD (Type)			Sample Temperature: 2.3° 2.1				BE	(GRO	d 4'	d 50	or	tals	NON,	des	1	NO/	Ch	-isture		ہ ک
Date	Time	Matrix	Sample Request ID	125.20	Preservative Type		BTEX + MTBE	+	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	ERA 300	2 met		Air Bubbles (Y or N)
1-30-19	1350	5	5-058210-84-043019-5P-TP-12-2	4 oc glass Jar	ICE	-001							-					×	Y		
1	1400	1	5-088210 84-04301458-78-12-3	)	1	- 002												X	x		
	1410		5-088210-84-043019-79-78-13-2			-003								121				X	Y		
	1425		5-058210-84-043019-78-78-13-3			-004												X	x		
	1335		5-088210-84-043019-78-78-14-2'			-075												X	V		
	1342	24	5-088210-84-043019-57-77-14-3			-006								111				X	V		
	1318		5-088210-84-043019-78-78-15-2			-007												X	V	-	
	1325		5-088210-84-043019-78-78-18-5			-008												X	x		
	1245		5-088210-84-043019-78-162			-009												V	x		
	1250		5-088210-84-043019-78-78-16-3			-010												X	X		
	1230		5-08.8210-84-043019.5P.TP-17.1			-011												X	X	3.17	
4	1236	¥	5-088210-84-043019-58-78-78-17-3	1	*	-012												X	Y		110
5-5-19		Relinquish	1-11	Received by: Received by:	/	Date Time 5/7/19 0900 Date Time	Rem	arks:		6											
5/1/19	190	Sho			Courier	5/8/19 0850															

Client:	GHD		Indian School Rd		s day earns		490	)1 H	A	<b>N</b> 2	AL /.hal	.YS	<b>SIS</b> vironi	S L	AB(	87109	ATC		
NE	Suite	200 All	suqueique NM 87110	Project #: 0	88210-84				1. 50			975	1	Fax	505-	-345-4 uest			
				ager: Frey Walk		8's (8021)	DRO / MRO)	PCB's		8270SIMS		PO4, SO4	ysis	Req	Total Coliform (Present/Absent)				
	AC	□ Az Co □ Othe	r	Sampler: Joshua Pigg On Ice: I Yes I No # of Coolers: 7		E / TMB'	RO / DF	s/8082	504.1)	5	s	3, NO <sub>2</sub> ,		(AC	(Prese	200 ح	·isture		
	(Type)			# of Coolers Cooler Temp	C(including CF): Z	.3 " 7.1"	MTBE	5D(GI	sticide	ethod	/ 8310	Metal	Br, NO <sub>3</sub> ,	(AO	emi-V	liform	oride	Meis	
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1905386	BTEX /	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CI, F, B	8260 (VOA)	8270 (Semi-VOA)	Total Co	chi	10 W	
30-19	1120	5	5-088210-84-043019-78-78-78-2	4 or ylass Jur	2 ct	-013											+	+	
1	1125		5-088210-84-043019=78-78-18-3		1	-014											+	4	
	1105		5-088210-84-043019-JP-TP-19-2			-015											+	X	
	1115		5-088210-84-043019-38-78-19-3	-		-016		-									Ŧ	+	
	1040		5-088210-84-043019-3P-7P-20-2			- 0187											+	×	
1	1048		5-088210-84-043019-37-79-28-5			-018		1									1	+	
	1300		5-088210-84-043019-3P-7P-21-2			-019											+	X	
Y	13:00	1	5-088210-84043019-38-78-21-3	al	¢	-020											+	+	
				_			4	-									×	$\checkmark$	
_		-						_			-				- 1		×	K	
_		1						_	-		-	-			_	_		k	_
ate: \$`\$~("(	Time:	Relinquist	ned by:	Received by:	Via:	Date Time 5/7/19 000	Rem	arks	:								-		
ate: 1/19	Time:	Relinquis	ed by:	Received by:	Via:	Date Time													



May 14, 2019

Michael Gant GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: Galaxy to Hearns Lay Flat

OrderNo.: 1905544

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 11 sample(s) on 5/10/2019 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

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Hall Environ	mental Analysis La	boratory, Inc.	•			]	Analytical Rep Lab Order: 1905 Date Reported:	544	19
	GHD Galaxy to Hearns Lay Flat				L	ab (	Order: 1	905544	
Lab ID:	1905544-001		C	Collecti	on Date	: 5/	1/2019 11:15:0	0 AM	
Client Sample ID:	S-088210-84-050119-PL-T	'P-6-2'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyz	ed I	Batch ID
PERCENT MOIST	URE	11	1.0		wt%	1	5/10/2019 4:3	-	st: <b>JMR</b> R59848
EPA METHOD 300 Chloride	0.0: ANIONS	ND	67		mg/Kg-c	dr 20	5/13/2019 11:	-	st: <b>smb</b> M 44858
Lab ID:	1905544-002		C	Collecti	on Date	: 5/	1/2019 11:18:0	0 AM	
Client Sample ID:	S-088210-84-050119-PL-T	'P-6-3'			Matrix	s : s	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyz	ed I	Batch ID
PERCENT MOIST	URE	8.7	1.0		wt%	1	5/10/2019 4:3		st: <b>JMR</b> R59848
EPA METHOD 300	0.0: ANIONS							Analys	st: <b>smb</b>
Chloride		390	65		mg/Kg-o	dr 20	5/13/2019 12:	17:34 PI	M 44858
Lab ID:	1905544-003		C	Collecti	on Date	: 5/	1/2019 11:26:0	0 AM	
Client Sample ID:	S-088210-84-050119-PL-T	'P-9-2'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyz	ed I	Batch ID
PERCENT MOIST	URE	11	1.0		wt%	1	5/10/2019 4:3	-	st: <b>JMR</b> R59848
EPA METHOD 300 Chloride	0.0: ANIONS	ND	67		mg/Kg-c	dr 20	5/13/2019 12:	-	st: <b>smb</b> M 44858
Lab ID:	1905544-004		C	Collecti	on Date	: 5/	1/2019 11:30:0	0 AM	
Client Sample ID:	S-088210-84-050119-PL-T	'P-9-4'			Matrix	s s	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyz	ed I	Batch ID
PERCENT MOIST	URE							Analys	st: JMR
Percent Moisture		11	1.0		wt%	1	5/10/2019 4:3	2:00 PM	R59848
EPA METHOD 300	0.0: ANIONS							Analys	st: <b>smb</b>
Chloride		ND	68		mg/Kg-o	dr 20	5/13/2019 12:	42:24 PI	M 44858

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

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
•	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 1 . C 4
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 1 of 4
	S	% Recovery outside of range due to dilution or matrix			

Released to Imaging: 6/23/2023 8:59:01 AM

Received by OCD: 6/8/2023 1:30:25 F	'M	
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Hall Environ	mental Analysis La	boratory, I	nc.		Analytical Report Lab Order: 1905544 Date Reported: 5/14	5544			
	GHD Galaxy to Hearns Lay Flat				L	ab C	<b>)rder:</b> 19055	544	
Lab ID:	1905544-005		C	ollecti	on Date	: 5/1	1/2019 11:35:00 A	М	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-11-2'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOIST	JRE						Ana	alyst:	JMR
Percent Moisture		12	1.0		wt%	1	5/10/2019 4:32:00	PM	R59848
EPA METHOD 300	.0: ANIONS						Ana	alyst:	smb
Chloride		330	68		mg/Kg-c	dr 20	5/13/2019 12:54:49	9 PM	44858
Lab ID:	1905544-006		C	Collecti	on Date	: 5/1	1/2019 12:30:00 Pl	М	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-10-2'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOIST	JRE						Ana	alyst:	JMR
Percent Moisture		6.7	1.0		wt%	1	5/10/2019 4:32:00	PM	R59848
EPA METHOD 300	.0: ANIONS						Ana	alyst:	smb
Chloride		ND	64		mg/Kg-o	dr 20	5/13/2019 1:07:14	PM	44858
Lab ID:	1905544-007		С	ollecti	on Date	: 5/1	1/2019 12:35:00 Pl	М	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-10-3'			Matrix	sc:	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						Ana	alyst:	JMR
Percent Moisture		14	1.0		wt%	1	5/10/2019 4:32:00	-	R59848
EPA METHOD 300	.0: ANIONS						Ana	alyst:	smb
Chloride		ND	70		mg/Kg-c	dr 20	5/13/2019 2:09:16	PM	44858
Lab ID:	1905544-008		С	ollecti	on Date	: 5/1	1/2019 12:39:00 PI	М	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-8-1'			Matrix	sc:	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
PERCENT MOISTU	JRE						Ana	alyst:	JMR
Percent Moisture		3.6	1.0		wt%	1	5/10/2019 4:32:00	-	
EPA METHOD 300	.0: ANIONS						Ana	alyst:	smb
Chloride		ND	63		mg/Kg-c	dr 20	5/13/2019 2:21:41	PM	44858

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

			L L		
<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank	
<b>C</b>	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	D 0 . C 4
	PQL	Practical Quanitative Limit	RL	Reporting Limit	Page 2 of 4
	S	% Recovery outside of range due to dilution or matrix			

Released to Imaging: 6/23/2023 8:59:01 AM

Received by OCD.	: 6/8/	2023	1:30:25	PM -
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Hall Environ	mental Analysis La	boratory, Inc	2.			Ι	Analytical Repo Lab Order: 19055 Date Reported: 5	44	9
	GHD Galaxy to Hearns Lay Flat				L	ab (	<b>)rder:</b> 190	)5544	
Lab ID:	1905544-009		C	ollecti	on Date	: 5/1	1/2019 12:43:00	PM	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-7-2'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	d Ba	atch ID
PERCENT MOIST	JRE							Analyst	JMR
Percent Moisture		7.9	1.0		wt%	1	5/10/2019 4:32:	00 PM	R59848
EPA METHOD 300	0.0: ANIONS							Analyst	: smb
Chloride		810	65		mg/Kg-o	dr 20	5/13/2019 2:34	05 PM	44858
Lab ID:	1905544-010		С	ollecti	on Date	: 5/1	/2019 1:00:00	PM	
Client Sample ID:	S-088210-84-050119-PL-7	ГР-22-2'			Matrix	sc:	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	d Ba	atch ID
PERCENT MOIST	JRE						,	Analyst	JMR
Percent Moisture		9.0	1.0		wt%	1	5/10/2019 4:32:	00 PM	R59848
EPA METHOD 300	0.0: ANIONS							Analyst	: smb
Chloride		ND	66		mg/Kg-o	dr 20	5/13/2019 2:46:	30 PM	44858
Lab ID:	1905544-011		С	ollecti	on Date	: 5/1	/2019 1:05:00	PM	
<b>Client Sample ID:</b>	S-088210-84-050119-PL-7	ГР-22-3'			Matrix	sc:	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	d Ba	atch ID
PERCENT MOIST	JRE							Analyst	JMR
Percent Moisture		6.6	1.0		wt%	1	5/10/2019 4:32:	00 PM	R59848
EPA METHOD 300	0.0: ANIONS							Analyst	: smb
Chloride		ND	64		mg/Kg-o	dr 20	5/13/2019 2:58:	55 PM	44858

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 range due to dilution or matrix S

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

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Page 3 of 4

C		al Analysis Laborato	ory, Inc.	WO#:	1905544 14-May-19
Client:	GHD				
Project:	Galaxy	to Hearns Lay Flat			
Sample ID: M	B-44858	SampType: MBI K	TestCode: EPA Method 300 0: Anions		

Sample ID: MB-44858	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 44858	RunNo: 59849		
Prep Date: 5/10/2019	Analysis Date: 5/13/2019	SeqNo: 2018822	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-44858	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID: LCS-44858 Client ID: LCSS	SampType: LCS Batch ID: 44858	TestCode: EPA Method RunNo: 59849	300.0: Anions	
			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: <b>44858</b> Analysis Date: <b>5/13/2019</b>	RunNo: <b>59849</b>		RPDLimit Qual

## **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 range due to dilution or matrix S

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

Page 4 of 4

ANALYSIS LABORATORY	AL	TE	ll Environme L: 505-345-3 Website: wwv	49 Albuquer 975 FAX	01 Hawi que, NM 505-34	kins NE 1 87109 15-4107	Sa	mple Log-In Check List	
Client Name: GHD		Work	Order Num	ber: 190	5544	-		RcptNo: 1	
Received By: Erin Mele	ndrez	5/10/20	019 8:50:00	АМ		Ń	MA	5	
Completed By: Leah Bac Reviewed By: ENK Lahe lead by	1 1/3 57	5/10/20	)19 11:40:27 /19	АМ		Lail	Ba	ñ	
Chain of Custody	1	1							
1. Is Chain of Custody comp	lete?			Yes		N		Not Present	
2. How was the sample deliv	vered?			Cou	<u>irier</u>				
Log In									
3. Was an attempt made to c	cool the samples	?		Yes		N	o 🗌		
4. Were all samples received	l at a temperatur	e of >0° C	to 6.0°C	Yes		N	•		
5. Sample(s) in proper contai	iner(s)?			Yes		N	o 🗌		
6. Sufficient sample volume for	or indicated test	(s)?		Yes	~	No	•		
7. Are samples (except VOA	and ONG) prope	rly preserve	ed?	Yes	~	No			
8. Was preservative added to	bottles?			Yes		No		NA 🗌	
9. VOA vials have zero heads	space?			Yes		No		No VOA Vials 🗹	
10. Were any sample containe	ers received brok	en?		Yes		N	• 🔽		1
11. Does paperwork match bot				Yes			•	# of preserved bottles checked for pH:	
(Note discrepancies on cha 12. Are matrices correctly ident		f Custodu?		Yes		No		(<2 or >12 unless noted Adjusted?	1)
13. Is it clear what analyses we		Custody?		Yes				1 4	
14. Were all holding times able (If no, notify customer for a	to be met?			Yes				Checked by: A S	10
Special Handling (if app	licable)								
15. Was client notified of all di	CONTRACTOR DATE	this order	?	Yes		N	•	NA 🔽	
Person Notified:			Date			_			
By Whom:			Via:	eM	ail 🗌	Phone [	] Fax	In Person	
Regarding: Client Instructions:									
16. Additional remarks:									
17. <u>Cooler Information</u>	Carallin	N-11-0-0	0.14						
Cooler No Temp °C 1 3.8	Condition S Good Ye	Seal Intact	Seal No	Seal D	ate	Signed	Ву		

Page 1 of 1

Client:	FHD S	erv ices,	Inc_ St., Ste, 108	Turn-Around	d 🗹 Rush	3-Jay				A	www	<b>AL</b> v.ha	.YS	<b>SIS</b> iron	5 L	AE	<b>BOI</b> om	IEN RAT	•
	4 17	, NM		Project #:		nory ing				lawk 05-34							M 87 <sup>.</sup> -4107		0/0/20
			- 4885	00	8210-84			2			-	A	naly	sis	Req	ues	ł		
email c	or Fax#:	m'chae	1. Gant @ GHD- Com	Project Man	ager:		1)	0					SO4			ent)			30:
QA/QC	Package ndard	:	□ Level 4 (Full Validation)	m,	ke Gant		's (8021)	DRO / MRO)	PCB's		8270SIMS		PO4,			Coliform (Present/Absent)			WA CZ
			ompliance	Sampler: P	i) Lorang		TMB's	/ DR	082	<del>,</del>	827(		$NO_2$ ,			eser			
	AC (Type)	□ Othe	er	On Ice:		□ No	-	RO	es/8	504.1)	ы	als	) <sub>3</sub> , N		(AO)	n (Pr	ure		
		T			: 1(CF=-0		MTBE	5D(G	Pesticides/8082	(Method	831	Meta	, NO <sub>3</sub> ,	(A)	Mi-√	iform	1510		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 1905 544	BTEX / I	TPH:8015D(GRO	8081 Pe	EDB (Me	PAHs by 8310	<b>RCRA 8 Metals</b>	QF, Br,	8260 (VOA)	8270 (Semi-VOA)	m	No mo	1	
5-1-19	11:15	Soil	5-089210-84-050119- PL-TP-6-2' 5-088210-84-050119- PL-TP-6-3	402.glass-1		- 001							X				X		
1	11:18	1-1-	5-088210-84-050119- PL-TP-6-3	1	1	-002							X				X		
	11:26					- (103							X				X		
	11:30		5-088210-84-050119- PL-TP-9-41			-004							X				X		
	11:35		5-088210-84-05019-			-005							X				X		
	12:30		S-088210-84-050119- PL-TP-9-2' S-088210-84-050119- PL-TP-9-4' S-088210-84-050119- PL-TP-10-2' S-088210-84-050119- PL-TP-10-2' S-088210-84-050119- PL-TP-10-2'			-006	1	TŪ					X				X		
	12:35		5:288210-8-1-050119- 12-TP-10-3'			-007							X				X		
	12:39		PL-TP-8-190119			- 008		1					X				X		
	12:43		5-088210-94-050149- PL-TP-T-21			-009				-			×				X		
	13:00		5-088210-84-050119- pt-7p-23-2'			-010							X				X		
4	13:05	6	5-088210-84-050119 	b	J	-011		_			_		X				X		
Date: 5-7-19 Date:	Time: 18:30 Time: 1940	Relinquist	hal	Received by:	Via: Via: COUri	5/8/19 (000	Rem	arks	5:										Page 52



August 01, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1907D79

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/26/2019 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

Hall Environ	mental Analysis	Laboratory, I	nc.			Ι	Analytical Rep Lab Order: 19071 Date Reported: 8	079	19
	GHD Midland Galaxy to Hearns				L	ab (	<b>)rder:</b> 19	07D7	79
Lab ID: Client Sample ID:	1907D79-001 S-0882010-84-072419	DJP SW-1-3	C	ollect	ion Date Matrix		24/2019 2:20:00 DIL	) PM	
Analyses		Result	RL	Qua	Units	DF	Date Analyze	d	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	1100	60		mg/Kg	20	7/26/2019 5:43	-	vst: <b>CAS</b> M 46427
Lab ID: Client Sample ID:	1907D79-002 S-0882010-84-072419	DJP SW-2-3	C	ollect	ion Date Matrix		24/2019 2:25:00 DIL	) PM	
Analyses		Result	RL	Qua	Units	DF	Date Analyze	d	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	60		mg/Kg	20	7/26/2019 5:55	-	/st: <b>CAS</b> M 46427
Lab ID:	1907D79-003		C	ollect	ion Date	: 7/2	24/2019 2:30:00	) PM	
Client Sample ID:	S-0882010-84-072419	JP SW-3-3			Matrix	sc:	DIL		
Analyses		Result	RL	Qua	Units	DF	Date Analyze	d	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	60		mg/Kg	20	7/26/2019 6:32	-	vst: <b>CAS</b> M 46427
Lab ID:	1907D79-004		C	ollect	ion Date	: 7/2	24/2019 2:35:00	) PM	
Client Sample ID:	S-0882010-84-072419	JP SW-4-3			Matrix	: SC	DIL		
Analyses		Result	RL	Qua	l Units	DF	Date Analyze	d	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	60		mg/Kg	20	7/26/2019 6:45	-	/st: <b>CAS</b> M 46427
Lab ID:	1907D79-005		C	ollect	ion Date	: 7/2	24/2019 2:40:00	) PM	
Client Sample ID:		JP SW-5-3			Matrix				
Analyses		Result	RL	Qua	l Units	DF	Date Analyze	d	Batch ID
EPA METHOD 300	0.0: ANIONS							Analy	/st: CAS
Chloride		3500	150		mg/Kg	50	7/30/2019 12:5	-	

alue exceeds Maximum Contaminant Level.	В	Analyte detec

- Vab Qualifiers: 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 range due to dilution or matrix s

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

Page 1 of 2

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Client: Project:		Midland xy to Hearns									
Sample ID: I	MB-46427	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: EP	A Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 464	427	F	RunNo: 61	674				
Prep Date:	7/26/2019	Analysis Da	ate: 7/	26/2019	S	SeqNo: 20	91646	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: I	_CS-46427	SampTy	/pe: LC	S	Tes	tCode: EP	A Method	300.0: Anion	S		
Client ID:	CSS	Batch	ID: 464	427	F	RunNo: 61	674				
Prep Date:	7/26/2019	Analysis Da	ate: 7/	26/2019	S	GeqNo: 20	91647	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	93.2	90	110			

**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 range due to dilution or matrix S

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

1907D79

01-Aug-19

WO#:

- Value above quantitation range

Received by	OCD:	6/8/2023	1:30:25 PM
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	A TEL: 505-345-39	tal Analysis Labora 4901 Hawkin lbuquerque, NM 8 75 FAX: 505-345- hallenvironmental	<sup>NE</sup> 7109 <b>San</b> 4107	Sample Log-In Check List					
Client Name: GHD MIDLAND	Work Order Numb	er: 1907D79		RcptNo:	<u></u>				
Received By: Desiree Dominguez	<i>ଙ୍କ</i> ୁ ଏମ୍ବର 7/26/2019 <del>8:46.00 A</del>	M	<b>D</b>						
Completed By: Leah Baca Reviewed By:	7/26/2019 11:27:05. 7/26/ G	AM	Loop Bace	L .					
Chain of Custody									
1. Is Chain of Custody complete?		Yes 🗹	No 📋	Not Present					
2. How was the sample delivered?		<u>Courier</u>							
Log In 3. Was an attempt made to cool the sample	95?	Yes 🗹	No 🗌	NA 🗌					
4. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes 🗹	No 🗌						
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌						
6. Sufficient sample volume for indicated tes	st(s)?	Yes 🗹	No 🗌						
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes 🖌	No 🗌						
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌					
9. VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials 🗹					
10. Were any sample containers received br	oken?	Yes 🗌	No 🗹	# of preserved bottles checked					
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 or >	12 unless noted)				
12. Are matrices correctly identified on Chain	of Custody?	Yes 🖌	No 🗌	Adjusted?					
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌						
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No	Checked by: DF	10 7/26/19				
Special Handling (if applicable)									
15. Was client notified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹					
Person Notified:	Date	<b>T</b>							
By Whom:	Via:	🗌 eMaii 🗌 F	Phone 🗌 Fax	In Person					
Regarding:				-					
Client Instructions:			·						
16. Additional remarks:									
Cooler No   Temp °C   Condition	Seal Intact Seal No	Seal Date	Signed By						
1 3.0 Good	Yes		- Arisian an Aldiana in Aldian às - Anis						

Page 1 of 1

Chain-of-Custody Record	Turn-Around Time:				
Client:	🛛 Standard 🛛 🖸 Rush 📝 र्देब्यू	ANALYSIS LABORATORY			
4	Project Name:	www.hallenvironmental.com			
Mailing Address: 2135 5 Loop 250 w	Galaxy to Hearns Project #:	4901 Hawkins NE - Albuque (8051)         D(GRO / DKO / MKO)         TIBE / TMB;s (8051)         Tel. 505-345-3975         Ficides/8082 PCB;s         Ficides/8082 PCB;s         Particles/8082 PCB;s         Matals         NO2; NO2; NO2; NO2; NO2; NO2; NO2; NO2;			
Midland Tx 74703		9			
Phone #: 452 676 0076	088210-84				
email or Fax#: James, Ornelas (Pould Com	Project Manager:	(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)			
QA/QC Package:		B12			
□ Standard □ Level 4 (Full Validation)	James Ornelas				
Accreditation:  Accreditation:	Sames Ornelas Sampler: Joshva Piga On Ice: Kres DNo				
□ NELAC □ Other □ EDD (Type)	On Ice: ≰Yes S⊒2No # of Coolers: (1)				
	Cooler Temp(induding CP): 2,9+0,1=3,0°2	MTB Metricic (COM A) NO A) A A			
	Container Preservative HEAL No.	BTEX / M TPH:8015 8081 Pesi 8081 Pesi PAHs by ( RCRA 8 M RCRA 8 M			
Date Time Matrix Sample Name	Type and # Type $1907079$ Sample $cooler$ - 001				
7-24-19 1+20 5 5-03826-54-072419-3P-5w-1-3					
1425 5-088210-87-072419-JP-51-2-3					
1430 S-038210-84-022419-3P-5W-3-3	-003				
1435 5-088210-84-072419-38 5-0-4-3	- 004				
+ 1440 + 5-088210-84-072419-JP-51-5-3	+ + -00S				
Date: Time: Relinquished by:	Received by: Via: Date, Time	Remarks:			
7-25-10 0700 Junpar	1/h - 7/26/19 140				
Date: Time: Relinquished by:	Received by Via: Date Time				
1/25/19 19W A	53 Courier 7/26/19 8:45				
If necessary, samples submited to Hall Environmental may be sub	• • • • • • • • • • • • • • • • • • • •	possibility. Any sub-contracted data will be clearly notated on the analytical report.			



July 19, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX

RE: Galaxy to Hearns

OrderNo.: 1907817

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 18 sample(s) on 7/17/2019 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

Hall Environ	mental Analysis	Laboratory, I	nc.			L	Analytical Ro ab Order: 190 Date Reported:	7817	/2019
	GHD Midland Galaxy to Hearns				L	ab C	)rder:	19078	317
Lab ID:	1907817-001		С	ollecti	on Date	: 7/1	6/2019 9:15	:00 AI	М
Client Sample ID:	S-088210-84-071619	-JP-TP-23-2			Matrix	: SC	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	700	60		mg/Kg	20	7/18/2019 11		alyst: <b>MRA</b> 3 AM 46246
Lab ID:	1907817-002		С	ollecti	on Date	: 7/1	6/2019 9:19	.00 A	М
Client Sample ID:	S-088210-84-071619	-JP-TP-23-4			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	590	60		mg/Kg	20	7/18/2019 11		alyst: <b>MRA</b> 3 AM 46246
Lab ID: Client Sample ID:	1907817-003 S-088210-84-071619	-JP-TP-24-2	С	ollecti	on Date Matrix		.6/2019 9:28: DIL	:00 A]	М
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	220	60		mg/Kg	20	7/18/2019 11		alyst: <b>MRA</b> 3 AM 46246
Lab ID:	1907817-004		С	ollecti	on Date	: 7/1	6/2019 9:35	.00 A	М
Client Sample ID:	S-088210-84-071619	-JP-TP-24-4			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	60		mg/Kg	20	7/18/2019 11		alyst: <b>MRA</b> 2 AM 46246
Lab ID:	1907817-005		C	ollecti	on Date	• 7/1	6/2019 9:40	00 A	М
Client Sample ID:		-JP-TP-25-2	C	Juct	Matrix			5571	
Analyses		Result	RL	Qual			Date Analy	zed	Batch ID
EPA METHOD 300								And	alyst: MRA
Chloride		360	60		mg/Kg	20	7/18/2019 12		-

- iated Method Blank Е Value above quantitation range
  - Analyte detected below quantitation limits J
  - Sample pH Not In Range
  - P Sample pH Not RL Reporting Limit

Page 1 of 5

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

Sample Diluted Due to Matrix

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Value exceeds Maximum Contaminant Level.

\*

D

Qualifiers:

Hall Environ	mental Analysis	Laboratory, I	nc.			Analytical Report Lab Order: 1907817 Date Reported: 7/19	
	GHD Midland Galaxy to Hearns				L	Lab Order: 19078	817
Lab ID:	1907817-006		C	ollecti	on Date	: 7/16/2019 9:49:00 A	М
Client Sample ID:	S-088210-84-071619	-JP-TP-25-4			Matrix	: SOIL	
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	290	61		mg/Kg	An: 20 7/18/2019 12:24:3	alyst: <b>MRA</b> 1 PM  46246
Lab ID:	1907817-007		С	ollecti	on Date	: 7/16/2019 9:58:00 A	М
Client Sample ID:	S-088210-84-071619	-JP-TP-26-2			Matrix	: SOIL	
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Ana	alyst: <b>MRA</b>
Chloride		ND	60		mg/Kg	20 7/18/2019 12:36:5	5 PM 46246
Lab ID:	1907817-008		С	ollecti	on Date	<b>:</b> 7/16/2019 10:05:00	AM
Client Sample ID:	S-088210-84-071619	-JP-TP-26-4			Matrix	: SOIL	
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	98	60		mg/Kg	Ana 20 7/18/2019 12:49:11	alyst: <b>MRA</b> 9 PM 46246
Lab ID:	1907817-009		C	ollecti	on Date	<b>:</b> 7/16/2019 10:15:00	AM
Client Sample ID:	S-088210-84-071619	-JP-TP-27-2			Matrix	: SOIL	
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					An	alyst: <b>MRA</b>
Chloride		580	60		mg/Kg	20 7/18/2019 1:26:33	-
Lab ID:	1907817-010		С	ollecti	on Date	<b>::</b> 7/16/2019 10:21:00	AM
Client Sample ID:	S-088210-84-071619	-JP-TP-27-4			Matrix	: SOIL	
Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					An	alyst: <b>MRA</b>
Chloride	-	140	60		mg/Kg	20 7/18/2019 1:38:58	-

Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank

- \* Value exceeds Ma Qualifiers: 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 range due to dilution or matrix S

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

Page 2 of 5

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Released to Imaging: 6/23/2023 8:59:01 AM

Hall Environ	mental Analysis	Laboratory, I	nc.			L	Analytical Rep Lab Order: 1907 Date Reported: 7	817	)19
	GHD Midland Galaxy to Hearns				L	ab C	<b>)rder:</b> 19	07817	1
Lab ID:	1907817-011		Co	ollecti	on Date	: 7/1	6/2019 10:30:0	00 AN	1
Client Sample ID:	S-088210-84-071619	-JP-TP-28-2			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	d I	Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	ND	60		mg/Kg	20		-	st: <b>MRA</b> 1 46246
Lab ID:	1907817-012		Co	ollecti	on Date	: 7/1	6/2019 10:35:0	00 AN	1
Client Sample ID:	S-088210-84-071619	-JP-TP-28-4			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	<b>d</b> ]	Batch ID
EPA METHOD 300	0.0: ANIONS							Analy	st: MRA
Chloride		ND	60		mg/Kg	20	7/18/2019 2:28	:36 PN	46246
Lab ID:	1907817-013		Co	ollecti	on Date	: 7/1	6/2019 10:41:0	00 AN	1
Client Sample ID:	S-088210-84-071619	-JP-TP-29-2			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	<b>d</b> 1	Batch ID
EPA METHOD 300	0.0: ANIONS							Analy	st: MRA
Chloride		130	60		mg/Kg	20	7/18/2019 2:41	:00 PN	46246
Lab ID:	1907817-014		Co	ollecti	on Date	: 7/1	6/2019 10:51:0	00 AN	1
Client Sample ID:	S-088210-84-071619	-JP-TP-29-4			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	<b>d</b> 1	Batch ID
EPA METHOD 300	0.0: ANIONS							Analy	st: <b>smb</b>
Chloride		220	60		mg/Kg	20	7/18/2019 11:2	3:42 A	M 46249
Lab ID:	1907817-015		Co	ollecti	on Date	: 7/1	6/2019 11:01:0	00 AN	1
Client Sample ID:	S-088210-84-071619	-JP-TP-30-2			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyze	d I	Batch ID
EPA METHOD 300	0.0: ANIONS							Analv	st: <b>smb</b>
Chloride	-	690	60		mg/Kg	20	7/18/2019 11:3	-	

Value exceeds Maximum Contaminant Level. B Analyte detected in the associated Method Blank

- \* Value exceeds Maximum Contaminant LevelD 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

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

Page 3 of 5

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Qualifiers:

Hall Environ	mental Analysis L	aboratory, Inc	с.			L	analytical Report ab Order: 1907817 Date Reported: 7/19	
	HD Midland alaxy to Hearns				L	ab C	<b>9rder:</b> 1907	817
Lab ID: Client Sample ID:	1907817-016 S-088210-84-071619-JP	-TP-30-4	C	ollecti	on Date Matrix		6/2019 11:07:00 DIL	АМ
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	1700	60		mg/Kg	20	An 7/18/2019 11:48:3	alyst: <b>smb</b> 1 AM 46249
Lab ID:	1907817-017		C	ollecti	on Date	: 7/1	6/2019 11:28:00	AM
Client Sample ID:	S-088210-84-071619-JP	-TP-31-2			Matrix	: SC	IL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS						An	alyst: <b>smb</b>
Chloride		61	59		mg/Kg	20	7/18/2019 12:00:5	6 PM 46249
Lab ID:	1907817-018		C	ollecti	on Date	: 7/1	6/2019 11:40:00	AM
Client Sample ID:	S-088210-84-071619-JP	-TP-31-4			Matrix	: SC	OIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	59		mg/Kg	20	An 7/18/2019 12:38:1	alyst: <b>smb</b> 0 PM 46249

Qualifiers:

rs: \* 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

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

в

Page 4 of 5

	WO#:	1907817
Hall Environmental Analysis Laboratory, Inc.		19-Jul-19

Client:	GHD Mi										
Project:	Galaxy to	o Hearns									
Sample ID: N	MB-46246	Samp	Type: <b>ml</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: F	PBS	Batc	h ID: 46	246	F	RunNo: 6	1473				
Prep Date:	7/18/2019	Analysis [	Date: 7/	/18/2019	5	SeqNo: 2	084960	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	_CS-46246	Samp	Type: Ics	6	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID: L	_CSS	Batc	h ID: 46	246	F	RunNo: 6	1473				
Prep Date:	7/18/2019	Analysis [	Date: 7/	/18/2019	S	SeqNo: 2	084961	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	93.1	90	110			
Sample ID: N	MB-46249	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: F	PBS	Batc	h ID: 46	249	F	RunNo: 6	1478				
Prep Date:	7/18/2019	Analysis [	Date: 7/	/18/2019	5	SeqNo: 2	085062	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	_CS-46249	Samp	Type: LC	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batc	h ID: 46	249	F	RunNo: 6	1478				
Prep Date:	7/18/2019	Analysis [	Date: 7/	/18/2019	5	SeqNo: 2	085063	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 range due to dilution or matrix S

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

Page 5 of 5

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1 1 5 0		~			<u> </u>

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					Sample Log-In Check Lis				
Client Name: GHD MIDLAND	Work Order Number:	190	7817			RcptNo:	1			
Received By: Erin Melendrez 7/	17/2019 8:45:00 AM			Ń	MA	6				
Completed By: Erin Melendrez 7/	17/2019 9:16:43 AM			Ń.	NA NA	L				
Reviewed By: DAD 7/17/19										
<u>Chain of Custody</u>										
1. Is Chain of Custody complete?		Yes	$\checkmark$	N	o 🗌	Not Present				
2. How was the sample delivered?		<u>Clie</u>	<u>1</u> t							
Log In										
3. Was an attempt made to cool the samples?		Yes		N	o 🗌	NA 🗌				
4. Were all samples received at a temperature of >	0° C to 6.0°C	Yes		N	•	NA 🗌				
5. Sample(s) in proper container(s)?		Yes	$\checkmark$	N	o 🗆					
6. Sufficient sample volume for indicated test(s)?		Yes	$\checkmark$	No	• 🗆					
7. Are samples (except VOA and ONG) properly pre	eserved?	Yes		No	• 🗆					
8. Was preservative added to bottles?		Yes		No		NA 🗌				
9. VOA vials have zero headspace?		Yes		No	• 🗆	No VOA Vials 🗹				
10. Were any sample containers received broken?		Yes		N	• 🗸	# of preserved bottles checked				
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		for pH:	>12 unless noted)			
<ol> <li>Are matrices correctly identified on Chain of Cust</li> </ol>	ody?	Yes	$\checkmark$	No	» 🗆	Adjusted?				
13. Is it clear what analyses were requested?		Yes		No	$\Box$					
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by:	NM 7/17			
Special Handling (if applicable)										
15. Was client notified of all discrepancies with this of	order?	Yes		N	•	NA 🗹				
Person Notified:	Date:	718	127							
By Whom: Leah Bach	Via:		ail 🕅	Phone [	Fax	In Person				
Regarding: -005, -009	ad time disc	-	incre.		Fwee		abel			
Client Instructions: Use the tries		-					weer			
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Ir			_e for	- <b>X</b>		· · 4				
1 3.9 Good Not Pre			ate	Signer	тру					

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	hain	-of-C	ustody Record	Turn-A	round	Time:							E-			C,		/TF	20		<b>A E</b> =	NTA	
Client:	GHD	I	· · ·	🗆 Sta	andaro	1 [	ਤ <sup>′</sup> Rusl	1 Zday			16-15 16-15												
				Project	t Nam	e:													tal.co		NA	101	
Mailing	Address	<sup>;:</sup> 2135	S Loop 250 W	(	Gal	aty	to H	earns	n n Shina an Shina an		49	01 H		·						M 87	109		
		Tx 7		Project	t #:	<u> </u>		· · · · · · · · · · · · · · · · · · ·				el. 50		-			•	-	·	4107			
		686			02	8210-	84												uest				
			orneles Qohd. Com	Project	t Mana	ager:				(	only)	() 20)		:	2		0 <sub>4</sub> )						
QA/QC I	Package:		an an Vincense and Andrews		ጥ		مام	c .	tin naste	(8021)	O SE	RO / MRO)			ŝ		0, S(	CB's					
□ Stan			Level 4 (Full Validation)				ornele		- 1997 - 1997 - 1997 - 1997	S	l (Gas	R0			SIMS)		PC	2 P(					
	tation AP		ег ен со стана се	Sample	er: 5	Joshu	a Pig	S ⊡ No		TMB	ТРН	TPH 8015B (GRO / D	418.1)	504.1)	8270		Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's			0		
	· · · · · ·							1+0.0/0F)		+ 	+ E	(GR(	441	d 50	- <mark>5</mark> -	als	ŐZ	des:/		8270 (Semi-VOA)	Ř		
								SANSTANA AND AND AND AND AND AND AND AND AND	and the second	MTBE	EX + MTBE	15B	TPH (Method	(Method (	(8310	RCRA 8 Metals	U U	sticio	8260B (VOA)	-ime	96		
Date	Time	Matrix	Sample Request ID	Conta		- N	ervative ype	HEALN	lo.	+ ×	+ X	1801	Ň.	Ň	l's (8	8 ¥	) su	Ъе	B	S)	<u>chloride</u>		
7-16-19			and a second		45 - 4 1 - 1 - 4		, , , , , , , , , , , , , , , , , , , ,	190781	all's endress al two cases	BTEX	BTE	ם	T T	EDB	PAH's	RC L	Anio	808	826(	827(	دلا		
7-16-19	915	S	5-088210-84-071619-3P-TP-23-2	Sampli	دهم	N	A state	-001	n an						· ·	5. F	·	·	•		×		
	919		5-08820-87-07619-JP-J3-4	· .	1			-002	in an ann an Airtean An Airtean Ann ann ann ann an Airtean Ai									-			×		
	928		5-088210-84-071619-3P-7P-24-2					-003						231						· .	x		
	935	an a	5-082210-84-071619-3PTP-24-4					-004	u positivan Ngjar tet												×	-	
	940		5-058210-84-071619-3P-25-2		jan s S		an <sup>an</sup> an An an A	-005	en provinsi na Nacionale est											· · ·	×	-	
	9449		5-088210-84-07161938-25-4	•				-006			4										×		1-1
	958		5-088210-84-071619-38-26-2					-007	an an						· · · · ·	:				· · ·	x	-	
	2005		5-088210-84-071619-78-78-26-4			e a dea Esta de	ing an Maria	- 008	n Marana An Anna		2.2					• • •					×	<u> </u>	$\square$
	1015		S-088210-24-071619-JP.TP-27-2'					-009												· _	*		
19 	(0Z)		5-088210-84-071619-37-78-27-4				*	-010	n na sa Riyan na					·							x		$\square$
	1030		5-088210-84-07 1619 -38-18-2'			· · · ·		-011								· .					x		
$\checkmark$	1035	J ↓	5-088210-84-071619-38.79-28-4		<u>ا</u> د م			-012						·							X		
Date:	Time:	Relinquist	ned by:	Received	01			Date Ti	i se na oriana	Rem	narks	:		1999 1997			·.		· · ·				
7-16-11	(430 Timo: -	Polinguia	and hur	Received	1/~	<u></u>	12 - x 	116/19	/ (30					· .	· .					·			
Date:	Time:	Relinquist	neo/oy:		γο <u>γ</u> . []]	/ (	Duri		<sup>me</sup> )845					a tra	t La j		з. С						
16/19	190	$\mathbb{P}$	provided to Hall Environmental may be subco	V	$\mathbb{Z}^{\epsilon}$	2		7/17/19							· · · ·	. •	<u> </u>						

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.

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July 23, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1907974

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/19/2019 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

Hall Environ	mental Analysis	Laboratory, I	Analytical Report Lab Order: 1907974 Date Reported: 7/23/20						
	GHD Midland Galaxy to Hearns				L	ab O	order: 190	)7974	
Lab ID:	1907974-001		Col	lection	n Date	: 7/1	7/2019 11:15:0	0 AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-1-2		Ν	Aatrix	: SO	IL		
Analyses		Result	RL (	Qual U	Units	DF	Date Analyzed	1 E	atch ID
EPA METHOD 300	0.0: ANIONS						/	Analys	t: CAS
Chloride		130	61	I	mg/Kg	20	7/20/2019 3:02:	21 PM	46295
Lab ID:	1907974-002		Col	lection	n Date	: 7/1	7/2019 11:18:0	0 AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-1-4		N	Aatrix	so:	IL		
Analyses		Result	RL (	Qual U	Units	DF	Date Analyzed	ł E	atch ID
EPA METHOD 300	0.0: ANIONS						/	Analys	t: CAS
Chloride		290	60	I	mg/Kg	20	7/20/2019 4:04:	23 PM	46295
Lab ID:	1907974-003		Col	lection	n Date	: 7/1	7/2019 10:55:0	0 AM	
Client Sample ID:	S-088210-84-071719-	-JP-TP-2-2		Ν	Aatrix	so:	IL		
Analyses		Result	RL (	Qual U	Units	DF	Date Analyzed	ł E	atch ID
EPA METHOD 300	0.0: ANIONS						/	Analys	t: CAS
Chloride		ND	59	I	mg/Kg	20	7/20/2019 4:16:	47 PM	46295
Lab ID:	1907974-004		Col	lectio	n Date	: 7/1	7/2019 11:03:0	0 AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-2-4		Ν	Aatrix	so:	IL		
Analyses		Result	RL (	Qual T	Units	DF	Date Analyzed	1 E	atch ID
EPA METHOD 300	0.0: ANIONS						,	Analys	t: CAS
Chloride		91	60	I	mg/Kg	20	7/20/2019 4:29:	12 PM	46295
Lab ID:	1907974-005		Col	lection	n Date	: 7/1	7/2019 10:35:0	0 AM	
<b>Client Sample ID:</b>	S-088210-84-071719	-JP-TP-3-2		N	Aatrix	so:	IL		
Analyses		Result	RL (	Qual U	U <b>nits</b>	DF	Date Analyzed	ł E	atch ID
EPA METHOD 300	0.0: ANIONS							Analys	t: CAS
Chloride		ND	60	ı	mg/Kg	20	7/20/2019 4:41:	•	

eds Maximum Contaminant Level	В	Analyte detected in the

- Value exceed Qualifiers: 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 range due to dilution or matrix s

- he associated Method Blank Е Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- P Sample pH Not I RL Reporting Limit

Page 1 of 4

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Released to Imaging: 6/23/2023 8:59:01 AM

\*

Hall Environ	nc.	Analytical Report Lab Order: 1907974 Date Reported: 7/23/2019							
	GHD Midland Galaxy to Hearns				L	ab O	<b>9rder:</b> 1907 <sup>4</sup>	974	
Lab ID:	1907974-006		С	ollecti	on Date	: 7/1	7/2019 10:43:00	AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-3-4			Matrix	: SO	IL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300 Chloride	0.0: ANIONS	240	60		mg/Kg	20	An 7/20/2019 4:54:01	alyst: <b>CAS</b> PM 46295	
Lab ID:	1907974-007		С	ollecti	on Date	: 7/1	7/2019 10:20:00	AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-4-2			Matrix	: SO	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300	0.0: ANIONS						An	alyst: CAS	
Chloride		130	60		mg/Kg	20	7/20/2019 5:06:25	PM 46295	
Lab ID:	1907974-008		С	ollecti	on Date	: 7/1	7/2019 10:28:00	AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-4-4			Matrix	: SO	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300	0.0: ANIONS						An	alyst: CAS	
Chloride		960	60		mg/Kg	20	7/20/2019 5:18:50	PM 46295	
Lab ID:	1907974-009		С	ollecti	on Date	: 7/1	7/2019 11:45:00	AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-32-2			Matrix	: SO	IL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300	0.0: ANIONS						An	alyst: MRA	
Chloride		610	60		mg/Kg	20	7/22/2019 11:17:2	1 PM 46313	
Lab ID:	1907974-010		С	ollecti	on Date	: 7/1	7/2019 11:58:00	AM	
Client Sample ID:	S-088210-84-071719	-JP-TP-32-4			Matrix	: SO	OIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
EPA METHOD 300	0.0: ANIONS						An	alyst: MRA	
Chloride		ND	60		mg/Kg	20	7/22/2019 11:29:4	-	

exceeds Maximum Contaminant Level.	В	Analyte detected in t

- Qualifiers: \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
    - NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit
    - PQL Practical Quantitative Limit
       S % Recovery outside of range due to dilution or matrix

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

Page 2 of 4

Hall Enviro	nmental Analysis Lab	Analytical Report           Lab Order:         1907974           Oate Reported:         7/23/2019							
CLIENT: Project:	GHD Midland Galaxy to Hearns			I	Lab Order:	19079	074		
Lab ID: Client Sample II	1907974-011 <b>9:</b> S-088210-84-071719-JP-SS-	R-2	Collec		e: 7/17/2019 1 k: SOIL	1:21:00 A	AM		
Analyses		Result	RL Qua	l Units	DF Date An	alyzed	Batch ID		
EPA METHOD 3 Chloride	00.0: ANIONS	ND	60	mg/Kg	20 7/22/201		alyst: <b>MRA</b> ) PM 46313		

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 range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 3 of 4

	WO#:	1907974
Hall Environmental Analysis Laboratory, Inc.		23-Jul-19

Client:	GHD M	idland									
Project:	Galaxy	to Hearns									
Sample ID:	MB-46295	SampType: <b>M</b>	BLK	Tes	tCode: EP	A Method	300.0: Anions	;			
Client ID:	PBS	Batch ID: 46	295	F	RunNo: 61	542					
Prep Date:	7/19/2019	Analysis Date: 7	20/2019	S	eqNo: 20	85988	Units: mg/Kg	9			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND 1.5									
Sample ID:	nple ID: LCS-46295 SampType: LCS Test			tCode: EP	Code: EPA Method 300.0: Anions						
Client ID:	nt ID: LCSS Batch ID: 46295		295	RunNo: 61542							
Prep Date:	7/19/2019	Analysis Date: 7	20/2019	S	eqNo: 20	85989	Units: mg/Kg	9			
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14 1.5	15.00	0	91.6	90	110				
Sample ID:	MB-46313	SampType: <b>M</b>	BLK	Tes	tCode: EP	A Method	300.0: Anions	;			
Client ID:	PBS	Batch ID: 46	313	F	RunNo: 61	554					
Prep Date:	7/22/2019	Analysis Date: 7	22/2010			07444	Units: mg/Kg				
	1/22/2015	Analysis Date.	22/2019	c	eqNo: 20	0/114	onito. mg/ng	1			
Analyte	1122/2013	Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	112212013							•	RPDLimit	Qual	
Analyte Chloride	LCS-46313	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit		%RPD	RPDLimit	Qual	
Analyte Chloride	LCS-46313	Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte Chloride Sample ID:	LCS-46313	Result PQL ND 1.5 SampType: LC	SPK value	SPK Ref Val Tes	%REC	LowLimit A Method 554	HighLimit	%RPD	RPDLimit	Qual	
Analyte Chloride Sample ID: Client ID:	LCS-46313 LCSS	Result PQL ND 1.5 SampType: LC Batch ID: 46	SPK value SS 313 22/2019	SPK Ref Val Tes	%REC tCode: EP RunNo: 61 SeqNo: 20	LowLimit A Method 554	HighLimit	%RPD	RPDLimit	Qual	

**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 range due to dilution or matrix S

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

Page 4 of 4

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			Page 72		
Client Name: GHD MIDLAND		Work Order Number: 1907974			RcptNo: 1		
Received By: Desir	ee Dominguez	7/19/2019 9:25:00	АМ	Ð	N		
Completed By: Erin I	Vielendrez	7/19/2019 11:01:4	1 AM	in	A	7	
Reviewed By: ENI	Ч	7/19/19					
Chain of Custody							
1. Is Chain of Custody of	complete?		Yes 🔽	No		Not Present	
2. How was the sample delivered?			Courier				
Log In 3. Was an attempt made	to cool the complex	.0	Yes 🔽	No		NA 🗔	
O. Was an attempt made	e to cool the samples		Yes 💌	NO			
4. Were all samples rece	eived at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No			
5. Sample(s) in proper c	ontainer(s)?		Yes 🗹	No			
6. Sufficient sample volu	me for indicated test	(s)?	Yes 🔽	No			
7. Are samples (except VOA and ONG) properly preserved?			Yes 🗹	No			
8. Was preservative add	ed to bottles?		Yes	No	~	NA 🗌	
9. VOA vials have zero headspace?			Yes 🗌	No		No VOA Vials 🗹	
10. Were any sample cor	tainers received bro	ken?	Yes	No		# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)			Yes 🔽	No		for pH: (<2 or >12 unless noted)	
12. Are matrices correctly	identified on Chain of	of Custody?	Yes 🔽	No		Adjusted?	
13. Is it clear what analyses were requested?			Yes 🔽	No			
14. Were all holding times (If no, notify customer			Yes 🗹	No		Checked by: DAD 7/19/19	
Special Handling (if	applicable)						
15. Was client notified of	all discrepancies wit	h this order?	Yes 🗌	No		NA 🗹	
Person Notified	-	Date			-		
By Whom:	1	Via:	eMail	Phone	Fax	🗌 In Person	
Regarding:	Γ						
Client Instructio	ns:				-		
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Tem	p °C Condition	Seal Intact Seal No	Seal Date	Signed E	Зу		
1 3.0	Good Y	es					

Page 1 of 1
Client:		-of-Cu	ustody Record	Turn-Around	□ Rush	3 day				A	N.	AL	YS	SIS	S L	A	BOR	ENT	RY
Mailing	Address	2135	S Loop 250 west		laxy to H	earns		10	01 Ц					vironi			om M 8710	10	
•			79703	Project #:						)5-34							-4107	9	
<b>v</b>		- 686			088210	84	1					A	naly	ysis	Req	ues	t	in the second	
email o	r Fax#:	james.	orneles@ghd.com	Project Mana	ger:		(	(ylı	(0)					04)					
A	Package:		□ Level 4 (Full Validation)		sames or		TMB's (8021)	(Gas only)	RO / MRO)			SIMS)		PO4,SO	PCB's			PA	
Accredi		□ Othe	er	Sampler: On Ice:	Joshua 1 18 Yes	No No	+ TMB'	H TPH	D /	8.1)	04.1)	8270 S		3,NO <sub>2</sub> ,	/ 8082		(1	300 E	or N)
	(Type)			Sample Temp	perature: 3.4	1-0.4=3.0%	_	BE	(GR	d 41	d 50	) or	tals	NO,	des	()	VO/		<u>ک</u>
Date	Time	Matrix	Sample Request ID	17.00	Preservative Type		BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	chl-ride	Air Bubbles
7-17-19	1115	5	5-088210-84-071719-JP-7P-2-2	Sample Bag	ICE	-001												×	
1	1118		5-088210-84-071719-JP:TP-1-4	1	1	-002												×	
	LOSS		5-088210-84-071719-JP-7P-2-2			-003								22.2		1		×	
	1103		5-088210-84-071719-38-78-2.4			-004												×	
	1035		5-088210-84-071719-312-2			-005												×	
	1043		5-088210-84-071719-JP-7P-34			-006		-										×	
	1020		5-088210.84-07119-38-78-4-2			-007												Y	
	1028		5-088210-84-071719-JP-TP-4-4			-008												×	
	1145		5-088210-84-071719-3P-TP-32	2		-009								J N	1			×	
	1158		5-083210-84-071719-38-78-32-4			-010												×	
*	1121	*	5-088210-84-071719-38-55-R-2	*	*	-011					-							×	
Date: 7-16-19 Pate: 18/19	1615	Relinquishe	2-1-01	Received by:	ourier 7	Pate Time 2/17/19 08-00 Date Time H19/19 9:25	Rem	arks	:										



August 06, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

OrderNo.: 1908021

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Galaxy to Hearns

Dear James Orneles:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/1/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

nental Analysis La	aboratory, Ir	ıc.			L		190802	1		
				L	ab O	rder:	1908	3021		
1908021-001		C	ollecti				0:25:00	AM		
S-088210-84-072919-JP-		DI	0.1					л	( 1 ID	
	Result	RL	Qual	Units	DF	Date A	nalyzed	Ва	tch ID	
0: ANIONS	120	60		mg/Kg	20	8/5/2019		-	<b>CAS</b> 46581	
1908021-002 S-088210-84-072919-JP-'	ТР-S-4	C	ollecti				0:45:00	AM		
	Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID	
0: ANIONS	260	60		mg/Kg	20	8/5/2019			<b>CAS</b> 46581	
1908021-003		С	ollecti	on Date:	7/2	9/2019 8	8:55:00	AM		
S-088210-84-072919-JP-	SW-7-3			Matrix	SO	IL				
	Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID	
0: ANIONS	ND	60		mg/Kg	20	8/6/2019		-	<b>CAS</b> 46581	
1908021-004 S-088210-84-073019-JP-;	SW-6-3	C	ollecti				0:25:00	AM		
	Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID	
0: ANIONS	ND	60		mg/Kg	20	8/5/2019		-	<b>CAS</b> 46581	
1908021-005		C	ollecti	on Date:	7/3	0/2019 1	:15:00	PM		
S-088210-84-073019-JP-	SW-11-2			Matrix	SO	IL				
	Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID	
0: ANIONS	ND	59		mg/Kg	20	8/5/2019		-	<b>CAS</b> 46581	
	HD Midland alaxy to Hearns 1908021-001 S-088210-84-072919-JP- 0: ANIONS 1908021-002 S-088210-84-072919-JP- 0: ANIONS 1908021-003 S-088210-84-072919-JP- 0: ANIONS 1908021-004 S-088210-84-073019-JP- 0: ANIONS	HD Midland alaxy to Hearns 1908021-001 S-088210-84-072919-JP-TP-S-2 <b>Result</b> 0: ANIONS 120 1908021-002 S-088210-84-072919-JP-TP-S-4 <b>Result</b> 0: ANIONS 260 1908021-003 S-088210-84-072919-JP-SW-7-3 <b>Result</b> 0: ANIONS ND 1908021-004 S-088210-84-073019-JP-SW-6-3 <b>Result</b> 0: ANIONS ND 1908021-004 S-088210-84-073019-JP-SW-6-3 <b>Result</b>	alaxy to Hearns         1908021-001       C         S-088210-84-072919-JP-TP-S-2       Result       RL         0: ANIONS       120       60         1908021-002       C       S-088210-84-072919-JP-TP-S-4       Result       RL         0: ANIONS       260       60         1908021-002       C         S-088210-84-072919-JP-TP-S-4       Result       RL         0: ANIONS       260       60         1908021-003       C       S-088210-84-072919-JP-SW-7-3       C         S-088210-84-072919-JP-SW-7-3       Result       RL         0: ANIONS       ND       60       60         1908021-004       C       S-088210-84-073019-JP-SW-6-3       C         S-088210-84-073019-JP-SW-6-3       Result       RL         0: ANIONS       ND       60         1908021-004       C       S-088210-84-073019-JP-SW-6-3         Result       RL       C         908021-005       C       S-088210-84-073019-JP-SW-11-2         Result       RL       RL	HD Midland alaxy to Hearns 1908021-001 Collecti S-088210-84-072919-JP-TP-S-2 Result RL Qual 0: ANIONS 120 60 1908021-002 Collecti S-088210-84-072919-JP-TP-S-4 Result RL Qual 0: ANIONS 260 60 1908021-003 Collecti S-088210-84-072919-JP-SW-7-3 Result RL Qual 0: ANIONS ND 60 1908021-004 Collecti S-088210-84-073019-JP-SW-6-3 Result RL Qual 0: ANIONS ND 60 1908021-004 Collecti S-088210-84-073019-JP-SW-6-3 Result RL Qual 0: ANIONS ND 60	HD Midland alaxy to Hearns 1908021-001 S-088210-84-072919-JP-TP-S-2 Result 120 Collection Date: S-088210-84-072919-JP-TP-S-2 S-088210-84-072919-JP-TP-S-4 Result Re	Impartal Analysis Laboratory, Inc.       Impartable in the problem in the pr	HD Midland alaxy to Hearns       Image: Second	Lab Order: 190802 Date Reported: 8/6Lab Order: 190802 Date Reported: 8/6HD Midland alaxy to HearnsLab Order: 190802 Date Reported: 8/61908021-001 S-088210-84-072919-JP-TP-S-2Collection Date: 7/29/2019 10:25:00 Matrix: SOILResultRLQualUnitsDFDate Analyzed0: ANIONSCollection Date: 7/29/2019 10:25:00 Matrix: SOIL12060mg/Kg208/5/2019 11:46:21908021-002 S-088210-84-072919-JP-TP-S-4Collection Date: 7/29/2019 10:45:00 Matrix: SOILResultRLQualUnitsDFDate Analyzed0: ANIONS S-088210-84-072919-JP-SW-7-3Collection Date: 7/29/2019 8:55:00 - Matrix: SOILAnalyzed1908021-003 S-088210-84-073019-JP-SW-7-3Collection Date: 7/29/2019 8:55:00 - Matrix: SOILAnalyzed0: ANIONS S-088210-84-073019-JP-SW-6-3Collection Date: 7/30/2019 9:25:00 - Matrix: SOILAnalyzed0: ANIONS S-088210-84-073019-JP-SW-6-3Matrix: SOILResultRLQualUnitsDF0: D60mg/Kg200: ANIONS S-088210-84-073019-JP-SW-6-3Analyzed0: ANIONS S-088210-84-073019-JP-SW-6-3Analyzed0: ANIONS S-088210-84-073019-JP-SW-6-3Matrix: SOIL0: ANIONS S-088210-84-073019-JP-SW-6-3Collection Date: 7/30/2019 9:25:00 - Matrix: SOIL0: ANIONS S-088210-84-073019-JP-SW-6-3Matrix: SOIL <td>Iso Order: 1908021Date Reported: <math>8/6/2019</math>Date Reported: <math>8/6/2019</math>Lab Order: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Joke Vorder: 1908021Sourder: 1908021-001Collection Date: 7/29/2019 10:25:00 AMSourder: 120Collection Date: 7/29/2019 10:45:00 AMSourder: 120Collection Date: 7/29/2019 11:46:29 PM1908021-002Collection Date: 7/29/2019 10:45:00 AMSourder: 120Collection Date: 7/29/2019 11:58:40 PM1908021-003Collection Date: 7/29/2019 15:50:0 AMSourder: 120ResultRL Qual UnitsDF Date Analyzed BaO: ANIONSCollection Date: 7/30/2019 12:36:08 AMSourder: 100Sourder: 120ND60<th co<="" td=""></th></td>	Iso Order: 1908021Date Reported: $8/6/2019$ Date Reported: $8/6/2019$ Lab Order: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Jake Vorder: 1908021Joke Vorder: 1908021Sourder: 1908021-001Collection Date: 7/29/2019 10:25:00 AMSourder: 120Collection Date: 7/29/2019 10:45:00 AMSourder: 120Collection Date: 7/29/2019 11:46:29 PM1908021-002Collection Date: 7/29/2019 10:45:00 AMSourder: 120Collection Date: 7/29/2019 11:58:40 PM1908021-003Collection Date: 7/29/2019 15:50:0 AMSourder: 120ResultRL Qual UnitsDF Date Analyzed BaO: ANIONSCollection Date: 7/30/2019 12:36:08 AMSourder: 100Sourder: 120ND60 <th co<="" td=""></th>	

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

aminant Level. B Analyte detected in the associated Method Blank

- 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 range due to dilution or matrix

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

Page 1 of 3

Hall Environ	mental Analysis L	aboratory, Iı	ıc.			L	Analytical Reportation Analytical Reportation Analytical Reported: 8/6	1
	HD Midland alaxy to Hearns				L	ab C	<b>)rder:</b> 1908	8021
Lab ID: Client Sample ID:	1908021-006 S-088210-84-073019-JP-	SW-12-2	C	ollecti	on Date Matrix		30/2019 1:18:00 I DIL	PM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 300 Chloride	.0: ANIONS	ND	61		mg/Kg	20		nalyst: <b>CAS</b> PM 4658
Lab ID:	1908021-007		C	ollecti	on Date	: 7/3	80/2019 1:25:00 I	PM
Client Sample ID:	S-088210-84-073019-JP-	SW-13-2			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 300	.0: ANIONS						A	nalyst: CAS
Chloride		ND	60		mg/Kg	20	8/5/2019 4:19:47	PM 4658
Lab ID:	1908021-008		C	ollecti	on Date	: 7/3	30/2019 3:10:00 I	PM
Client Sample ID:	S-088210-84-073019-JP-	SW-14-2			Matrix	: SC	DIL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch I
EPA METHOD 300	.0: ANIONS						Ai	nalyst: CAS
Chloride		ND	60		mg/Kg	20		-

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

Qualifiers:

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

\*

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix s

Е Value above quantitation range

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits J

Sample pH Not In Range Р

RL Reporting Limit

в

Page 2 of 3

Client: Project:	GHD Midland Galaxy to Hearns							
Sample ID: MB-4	6581 SampType	e: MBLK	Tes	tCode: EPA Method	300.0: Anions			
Client ID: PBS	Batch ID	): <b>46581</b>	F	RunNo: <b>61901</b>				
Prep Date: 8/5/2	2019 Analysis Date	e: 8/5/2019	S	SeqNo: 2099842	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5						
Sample ID: LCS-	46581 SampType	e: LCS	Tes	tCode: EPA Method	300.0: Anions			
Client ID: LCSS	Batch ID	2 <b>46581</b>	F	RunNo: <b>61901</b>				
Prep Date: 8/5/2	2019 Analysis Date	e: 8/5/2019	S	SeqNo: 2099843	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5 15.00	0	92.1 90	110			

Qualifiers:

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

- 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

1908021

06-Aug-19

WO#:

ANALYSIS LABORATORY		4901 Ha Albuquerque, N -3975 FAX: 505- ww.hallenvironm	345-4107	mple Log-In Chec	k List
Client Name: GHD MIDLAND	Work Order Nur	mber: 1908021	-	RcptNo: 1	
Received By: Leah Baca	8/1/2019 9:05:00	АМ	Lal Ba	m	
Completed By: Erin Melendrez	8/1/2019 10:58:59	9 AM	Lad Ba	1	
Reviewed By: ENH	8/1/19				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the sample delivered?		Client			
Log In					
3. Was an attempt made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🔽	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated te	est(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) pro	operly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials	
10. Were any sample containers received b	roken?	Yes 🗆	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody	)	Yes 🗸	No 🗌	for pH: (<2 or >12 y	aless noted)
12. Are matrices correctly identified on Chain	n of Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested	?	Yes 🗸	No 🗌		011110
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked by: DAD	8/1/19
Special Handling (if applicable)				(	
15. Was client notified of all discrepancies v	vith this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Dat	e:			
By Whom:	Via	: 🗌 eMail [	Phone E Fax	In Person	
Regarding:					

17. Cooler Information

 Cooler No
 Temp °C
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

 1
 0.6
 Good
 Not Present

Page 1 of 1

Client:	GHI		ustody Record	Turn-Ar	ndard	⊡∕Rusl	1_ 3 day						1.11							
				Project	Name	9:	7	2000 B				www	/.hal	llenv	iron	ment	al.com	1		
Mailing	Address	5: 2135	5 Loop 250 W	1	G	alaxy to	Hearns		490	1 H	awki	ins N	IE -	Alk	ouqu	erau	e, NM	87109		
		× 74		Project		3											345-41			
			76 0076		e	88210-84	f		記載	1	h sak		and the second second	Concession in which the	Contract of the local division of the local	Contraction of the local division of the loc	uest		T.	34
email o	r Fax#:	Jame	is ornelas @ ghd. com	Project	Mana	ger:		1	6					SO4			nt)			
	Package							(8021)	/ MRO)	PCB's		MS					bse			
Stan	dard		□ Level 4 (Full Validation)		1	ames O	rnelas	S	0			8270SIMS		, PO <sub>4</sub> ,			nt/A	de		
			compliance	Sample	r: J	Dyes	eé:	TMB'	-	3082	1.1)			$NO_2$ ,			ese	4 leeved		
			er				□ No	E/	SRO	Pesticides/8082	1 504.1)	0 or	SIE			(OA)	Pr	54		
	(Type)		1	# of Coo Cooler	- NO	~	y .0.2 = 0.6C	MTBI	D(G	ticid	thod	831	Meta	NO <sub>3</sub> ,	(A)	V-im	form	0		
					p		U1		8015	Pes	(Met	by	A 8 h	Br,	(VO	(Sei	Coli	Se		
Date	Time	Matrix	Sample Name	Contain Type an		Preservative Type	1908021	BTEX	TPH:8015D(GRO	8081	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	EPA	-	
7-29-19	1025	5	5-058210-84-072919-37-79-5-2	\$ 22 \$	S- uple	cooler/NA								11				×		
7-29-19	1045	1	5-088210-84-072919-38-78-54	F	2	1	-002											×		
7-29-19			5-088210-84-072919-JP.SW-7-3				-003			1								X		
7-30-19	in such		5-088210-84-073019-JP-SW-66-3				-004										1	×		+
	Part of the				- 6		-005		-									×	-	+
	1315		5-088210-54-073019-JP-Sw-1+2				-006		-		-	-					-			+
-	1318		5-088210-84-073019-JP-5w-12-2						-		-	-			-				-	+-
	1325	1.	5-088210-84-073019-38-5-13-2			1	-007		-		-	-	-					×	-	-
*	1510	V	5-088210-84-073019-39-54-14-2	¥		•	-008		-	+	-	-	-		-	-	-	×	-	
					-					+	-	-			-				-	+
	-				-					-		-			_					+
											-									+-
Date:	Time:	Relinquis	hed by:	Received	By.	Via:	Date / Time	Rom	arks											
7-30-19	1815	6	2ml C		1	/	7/3//11 090		and.	1										
	Time:	Reinquis	hed by:	Received	by	Via: Coure		4												
L.In	1610)	M		10,1	R	0.0	3/1/9 0905	5												
3119	170	Z I	ubmitted to Hall Environmental may be subc	reach	othere	prodited to be set of		-		1	h a	and - d	data	uill b	aleri		and are the			



August 06, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908087

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/2/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

l by OCD: 6/8/2023	1:30:25 PM								Page
Hall Environ	mental Analysis	Laboratory, Inc.				L	ab Order: 1908087 ab Order: 1908087 Date Reported: 8/6/		
	GHD Midland Galaxy to Hearns				L	ab O	9rder: 1908	087	
Lab ID:	1908087-001		Col	lectio	on Date	: 7/3	31/2019 8:45:00 A	М	
Client Sample ID:	S-088210-84-073119-3	JP-BS-1-3			Matrix	: SO	OIL		
Analyses		Result	RL Q	ual	Units	DF	Date Analyzed	Batc	h ID
EPA METHOD 300	0.0: ANIONS						An	alyst: <b>C</b>	CAS
Chloride		ND	60		mg/Kg	20	8/2/2019 5:23:27 F	PM 4	6569
Lab ID:	1908087-002		Coll	lectio	on Date	: 7/3	31/2019 8:55:00 A	М	
Client Sample ID:	S-088210-84-073119-3	IP-BS-2-3			Matrix	: SO	OIL		
Analyses		Result	RL Q	ual	Units	DF	Date Analyzed	Batc	h ID
EPA METHOD 300	0.0: ANIONS						An	alyst: <b>C</b>	CAS
Chloride		ND	60		mg/Kg	20	8/2/2019 5:35:52 F	,	6569

Lab ID:	1908087-003		Colle	ection Date	: 7/3	31/2019 10:10:00 A	AM
Client Sample ID:	S-088210-84-073119-JP-	SW-15-2		Matrix	: SC	DIL	
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Ana	alyst: CAS
Chloride		1100	60	mg/Kg	20	8/2/2019 5:48:16 P	M 46569
Lab ID:	1908087-004		Colle	ection Date	: 7/3	31/2019 10:15:00 A	AM
Client Sample ID:	S-088210-84-073119-JP-	SW-15-4		Matrix	: SC	DIL	
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Ana	alyst: CAS
Chloride		770	59	mg/Kg	20	8/2/2019 6:00:41 P	M 46569
Lab ID:	1908087-005		Colle	ection Date	: 7/3	31/2019 2:25:00 PM	M
Client Sample ID:	S-088210-84-073119-JP-	SW-16-3		Matrix	: SC	DIL	
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Ana	alyst: CAS
Chloride		ND	60	mg/Kg	20		-

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

*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank

Qualifiers: 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 range due to dilution or matrix S

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 3

					Α	nalytical R	eport	
		· • / •			La	ab Order: <b>19</b>	08087	
Hall Environ	mental Analysis I	Laboratory, Inc	С.		D	ate Reported	: 8/6/2	019
CLIENT: C	GHD Midland			L	ab O	rder:	190808	87
Project: (	Galaxy to Hearns							
Lab ID:	1908087-006		Coll	ection Date	: 7/3	1/2019 2:28	3:00 PN	1
Client Sample ID:	S-088210-84-073119-JI	P-SW-17-3		Matrix	: SO	IL		
Analyses		Result	RL Q	ual Units	DF	Date Analy	yzed	Batch ID
EPA METHOD 300	0.0: ANIONS						Ana	lyst: CAS
Chloride		ND	60	mg/Kg	20	8/2/2019 6:2	25:30 PN	V 46569
Lab ID:	1908087-007		Coll	ection Date	: 7/3	1/2019 2:45	5:00 PN	ſ
Client Sample ID:	S-088210-84-073119-JI	P-SW-18-3		Matrix	: SO	IL		
Analyses		Result	RL Q	ual Units	DF	Date Analy	yzed	Batch ID
EPA METHOD 300	0.0: ANIONS						Ana	lyst: CAS
Chloride		77	60	mg/Kg	20	8/2/2019 6:3	37:55 P <b>i</b>	M 46569

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 range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 2 of 3

Client: Project:		Midland xy to Hearns									
Sample ID:	MB-46569	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	ID: 46	569	F	RunNo: 61	1879				
Prep Date:	8/2/2019	Analysis Da	te: <b>8/</b>	2/2019	S	SeqNo: 20	098318	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-46569	SampTy	pe: <b>LC</b>	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	ID: 46	569	F	RunNo: 61	1879				
Prep Date:	8/2/2019	Analysis Da	te: <b>8/</b>	2/2019	S	SeqNo: 20	098319	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	93.7	90	110			

Qualifiers:

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

- 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

Page 3 of 3

1908087

06-Aug-19

WO#:

ANALYSIS	7 TEL: 505-345-3	ntal Analysis Labor 4901 Hawkin Albuquerque, NM 8 975 FAX: 505-345- 9.hallenvironmenta	<sup>7109</sup> San	Pa
Client Name: GHD MIDLAND	Work Order Numb	per: 1908087		RcptNo: 1
Received By: CHRIS B.	8/2/2019 9:00:00 AI	м		
Completed By: Desiree Dominguez	8/2/2019 9:48:26 AI	M	T	
Reviewed By: DAD 8/2/19			~	
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 sample	es?	Yes 🗹	No 🗆	
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated tes	st(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) proj	perly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹 🏼 🖊
10. Were any sample containers received br	oken?	Yes □	No 🔽	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH: (<2 pr >12 unless note
12. Are matrices correctly identified on Chain	•	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?	•	Yes 🗹	No 🗌	Vr alah
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked/by: 16 8 2)
<u>Special Handling (if applicable)</u>				V
15. Was client notified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	
Person Notified:	Date:	J		
By Whom:	Via:	🗌 eMail 🔲 P	hone 🗌 Fax	In Person
Regarding:				
Client Instructions: 16. Additional remarks:		· · · · · · · · · · · · · · · · · · ·		·····
17. <u>Cooler Information</u> Cooler No Temp °C Condition	Seal Intact   Seal No	Seal Date	Signed By	
	Not Present		oigned by	
A CONTRACTOR OF THE CONTRACTOR	Not Present		17 WW //X? K.H. JOINTON N. N. WE MOTOR BUILDING CO.	1

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----Page 1 of 1

Released			-of-C	ustody Record	Turn-A	Around	Time	:					ŀ	44		F	NV	/TE	20	NN		NTA		Kecetv
ed to	Client:	GHI	D		□ Sta	andard	ł	🗗 Rust	1_2day24hr														RY	ed b
9 Im					Projec	t Nam	e:					ст. 1 С									<b>N</b>			y O
aging.	Mailing	Addres	<sup>s:</sup> 🛝 135	5 Loop 250 W			مامه	+ Ľ	Harns		49	01 F							tal.co ie, Ni	om M 871	109			CD: 6/
: 6/2			Tx 7		Projec	:t #:				]	Τe	əl. 50	)5-34	45-3	975	1	Fax	505	-345-	-4107	1			8/20
3/20				0076			0883	210-84	t						ļ	Anal	ysis	Req	uest					123
23	email	or Fax#:	james	Ornelas Rghd. com	Projec	t Mana	ager:			Ê	()					SO₄			nt)				ΤΤ	:30
8:59		Package		5						(8021)	MR	B's		AS N					bse		2			20
:01	Star	ndard		Level 4 (Full Validation)			Jan	res (	Irnelas	3's (j	DRO / MRO)	PCB'		8270SIMS		PO4,			nt/A		10:1	Ì		r M
AM				ompliance	Sampl		Josh		99	TMB's	/ DF	Pesticides/8082	<del>,</del>	827		NO <sub>2</sub> ,			Coliform (Present/Absent)	1	chleride			
				<u> </u>	On Ice	int in independently		and an internation of the second s		-	RO	es/8	504.1)	) or	s			(Semi-VOA)	Pr		- T			
		D (Type) T	<u></u>						-0.4=0.7 8-0.4=3.4	MTBE	TPH:8015D(GRO	icid	(Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> ,	4)	ni-∨	orm		300			
	1					Tomp		S. 9.			015	Desi	Met	by 8	N 8 V	Ъ,	8260 (VOA)	Ser	Colif		A			
					Contai		Pres	ervative	HEAL No.	втех	H:8	8081 F	EDB (	٨Hs	CRA	ц	60 (	8270 (	Total (		ية س			
	Date	Time	Matrix	Sample Name	Type a		Туре		140 808 T	Е	Ë	80	Ш	4	Я(	Ū	82	82	ř		_		$\downarrow \downarrow$	
	7-31-19	0849	S	5-088210-84-073119-31-85-1-3	1 94	دمعع	N	A	- 001											'	×			
		\$\$\$		5-088210-84-073119-58-85-2-3		<b>.</b> .		]	-00Z									1			$\times$			
		1010		S=088210-84-073119-5P-5w-15-2					-003												<b>x</b> .	1		
		1015		5-088210-84-073119-JP.5W-15-4					-004												X			
		1425		5-088210-84-073119-JP-5w-16-3					-005											$\neg$	×			
		1428		5-088210-84-073119-57-50-17-3	·				-006						-						$\mathbf{\hat{\mathbf{x}}}$	1		
	¥	1445		5-088210-84-0731937-50-18-3				4	-007												x	+		-
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	Date:	Time:	Relinguish	ed by:	Receive		Via:		panje Time	Rem														
	7.3 LA		2	fu (	Å	11			8/1 19 1330															Pa
3	Date:	Time:	Relinquish	ed by Y	Received	d ₩/	Via	RIDER	8/2/19 9:00															lo cy asud

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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.



September 03, 2019

Justin Nixon GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908G19

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Justin Nixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/28/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

							ab Order: 1908		
Hall Environ	mental Analysis l	Laboratory, Inc	•			D	ate Reported:	9/3/2	019
	GHD Midland Galaxy to Hearns				L	ab O	o <b>rder:</b> 1	908G	19
Lab ID:	1908G19-001		Col	lectio	on Date	: 8/2	6/2019 3:10:0	)0 PN	4
Client Sample ID:	S-088210-84-082619-JJ	P-SW-9-3			Matrix	: SO	IL		
Analyses		Result	RL (	Qual	Units	DF	Date Analyz	ed	Batch ID
EPA METHOD 300	0.0: ANIONS							Ana	lyst: CAS
Chloride		240	60		mg/Kg	20	8/29/2019 11:	20:45	AM 47134
Lab ID:	1908G19-002		Col	lectio	on Date	: 8/2	6/2019 3:00:0	)0 PN	1
Client Sample ID:	S-088210-84-082619-JJ	P-SW-10-3			Matrix	: SO	IL		
Analyses		Result	RL (	)ual	Units	DF	Date Analyz	ed	Batch ID
EPA METHOD 300	0.0: ANIONS							Ana	lyst: CAS
Chloride		ND	60		mg/Kg	20	8/29/2019 11:	57:59	AM 47134

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 range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

в

Page 1 of 2

Client: Project:		Midland xy to Hearns									
Sample ID: N	/IB-47134	SampTy	pe: ME	BLK	Tes	tCode: EP	PA Method	300.0: Anion	s		
Client ID: F	PBS	Batch	ID: 47	134	F	RunNo: 62	2503				
Prep Date:	8/28/2019	Analysis Da	ite: <b>8/</b>	28/2019	S	SeqNo: 21	26703	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-47134	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 47	134	F	RunNo: 62	2503				
Prep Date:	8/28/2019	Analysis Da	ite: <b>8/</b>	28/2019	S	SeqNo: 21	26704	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.6	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % 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 limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2

1908G19

03-Sep-19

WO#:

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HALL Environmental Analysis Laboratory	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	49( iquero FAX:	)1 Hawkins N 11 Jue, NM 8710 505-345-410	E 19 7	Sar	nple Log-In Check List	
Client Name: GHD MIDLAND	Work Order Number:	190	8G19			RcptNo: 1	•
Received By: Danicl M. Completed By: Michelle Garcia Reviewed By: ENM	8/28/2019 8:45:00 AM 8/28/2019 9:38:31 AM 8/28/19			mii	hill (	forcie >	
Chain of Custody							
1. Is Chain of Custody complete?		Yes		No		Not Present	
2. How was the sample delivered?		<u>Cou</u>	<u>rier</u>				
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) propert	y preserved?	Yes	$\checkmark$	No			
8. Was preservative added to bottles?		Yes	·	No	✓	NA 🗌	
9. VOA vials have zero headspace?		Yes		No		No VOA Vials 🔽	
10. Were any sample containers received broke	n?	Yes		No	✓	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No		bottles checked for pH:	
12. Are matrices correctly identified on Chain of	Custody?	Yes	$\checkmark$	No		Adjusted?	
13, Is it clear what analyses were requested?		Yes		No			
14. Were all holding times able to be met?		Yes	$\checkmark$	No		Checked by: MA0828	9
(If no, notify customer for authorization.)							- 1
<u>Special Handling (if applicable)</u>			_			_	
15. Was client notified of all discrepancies with t	his order?	Yes		No		NA 🗹	
Person Notified:							
By Whom:	Via:	] eMa	ail 🗌 Phon	ie 🗌	] Fax	In Person	
Regarding:			· ·				
Client Instructions:			· .				
16. Additional remarks:							

## 17. Cooler Information

Cooler No	Temp ⁰C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Yes		· · · · · · · · · · · · · · · · · · ·	
ົ	4.0	Good	Yes			

Client:	hain	-of-Cı	ustody Record	Turn-Around	Time:	,	]					_		/ <b>7</b> -	.~				
Client:	G۲	+D		□ Standard	Rush	1_24hr		NV AS											
r				Project Name	э:			2.49								BOR	AI	UR	T
Mailing	Address	<sup>si</sup> c ut	Loop 250 west Midland	6-	lary to	Henry S		40	<b>NA 11</b> .		ww.ha						^		
			Losp 230 west Midling	Project #:	<u> </u>	· - · J	-						-	-		M 8710	9		
	79703	2 686			088210-8	: <b>म</b>		IE	91. 50:	5-345	-3975		⊦ax ysis			4107			
			Aixon Q ghd. com	Project Mana	iner:			y)	Ô		<b>-</b>				ucat		1		
	Package:		and reject con		igon.	e de la companya de l La companya de la comp	121	luo (	MR				S,	3's					
□ Stan	-		□ Level 4 (Full Validation)	-	N LiterE	xan	8(8)	Gae	ò		SIMS)		PO	PCB'					
Accredi					Joshva Pi Lites		TMB's (8021)	+ TPH (Gas only)	/ DRO / MRO)	÷ ÷			Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	/ 8082			8		,
	AP	□ Othe	èr	On Ice	Ures	FNe	i +	⊢     +	(GRO	18	8270	<i>"</i>	03,1	s / 8		Â	M		
	(Type)			Sample Tem	perature: <i>4/-//</i>	9-37-944-04-40		비	(Ú)	po 4		etals	Сľ,	cide	Æ	2	E.		
_				Container	Preservative		BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1) EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	(F,(	Pesticides	8260B (VOA)	8270 (Semi-VOA)			
Date	Time	Matrix	Sample Request ID	Type and #	Туре	HEAL NO.	Ш	Ы	Щ Ш	€   € I   g	L S	RA	ions	91 Р	30B	20	5		
						1908G19	E E	BT	₽		3 4	80	An	8081	82(	82			
8-26-19	1510	S	5-088210-84-082619-59.5-1-3	Sample bag	NA	100											×		
8-26-19	(500	\$	5-088210-84-082619-3P. Sw. 10-3	Simple	NA	002											4		
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B-2619			John Cr.			5/21/19 0900	Ren	Iarks	•										
Date:		Relinquishe		Received by		J/C//9 0700 Date , Time	-												
20/10	1010				1 - 15 - 1	shalin arris	ļ												
~1/17	<u> 1 V</u>	$\Box A$	Hitted to Hall Environmental may be subco	412~	Lowier	42811 0.93	<u>}</u>			·									



August 06, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908146

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/3/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

nental Analysis La	boratory, I	nc.			L	ab Order: 19	08146	019
				L	ab C	order:	19081	46
1908146-001 S-088210-84-080219-JP-5	5B-3	C	ollecti				00 AM	
	Result	RL	Qual	Units	DF	Date Anal	yzed	Batch ID
.0: ANIONS	ND	60		mg/Kg	20	8/5/2019 1:		lyst: <b>CJS</b> M 46583
1908146-002		С	ollecti	on Date	: 8/2	2/2019 10:45	5:00 AN	Λ
S-088210-84-080219-JP-1	B-3			Matrix	: SC	IL		
	Result	RL	Qual	Units	DF	Date Anal	yzed	Batch ID
.0: ANIONS							Ana	lyst: CJS
	390	60		mg/Kg	20	8/5/2019 1:	28:37 PI	M 46583
1908146-003		С	ollecti	on Date	: 8/2	2/2019 1:50:	00 PM	
S-088210-84-080219-JP-8	3-3			Matrix	: SC	OIL		
	Result	RL	Qual	Units	DF	Date Anal	yzed	Batch ID
.0: ANIONS							Ana	lyst: CJS
	420	60		mg/Kg	20	8/5/2019 1:		
	HD Midland alaxy to Hearns 1908146-001 S-088210-84-080219-JP-5 .0: ANIONS 1908146-002 S-088210-84-080219-JP-1 .0: ANIONS 1908146-003	Image: Control of the control of th	ialaxy to Hearns ialaxy to Hearns 1908146-001 C S-088210-84-080219-JP-5B-3 Result RL .0: ANIONS ND 60 1908146-002 C S-088210-84-080219-JP-1B-3 Result RL .0: ANIONS 390 60 1908146-003 C S-088210-84-080219-JP-8-3 Result RL .0: ANIONS C	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	item item item item item item item item	Impental Analysis Laboratory, Inc.       Impertal Analysis Laboratory, Inc.       Impertal Kaloratory, Inc.       Imperal Kaloratory, Inc.       Impertal Kaloratory, Inc.	Inental Analysis Laboratory, Inc.       Lab Order: 19 Date Reported         HD Midland ialaxy to Hearns       Lab Order:         1908146-001       Collection Date:       8/2/2019 9:20:         5-088210-84-080219-JP-5B-3       Matrix:       SOIL         Result       RL       Qual       Units       DF       Date Analy         .0: ANIONS       ND       60       mg/Kg       20       8/5/2019 1:         .1908146-002       Collection Date:       8/2/2019 10:45         S-088210-84-080219-JP-1B-3       Matrix:       SOIL         Result       RL       Qual       Units       DF       Date Analy         .0: ANIONS	Image: Constraint of the constraint

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

Qualifiers:

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

\*

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix s

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

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Page 1 of 2

Client: Project:		Midland Xy to Hearns									
Sample ID:	MB-46583	SampTy	pe: <b>m</b> t	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 46	583	F	RunNo: 61	924				
Prep Date:	8/5/2019	Analysis Da	te: <b>8/</b>	5/2019	S	SeqNo: 21	00001	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-46583	SampTy	pe: Ics	5	Tes	tCode: EF	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 46	583	F	RunNo: 61	924				
Prep Date:	8/5/2019	Analysis Da	te: <b>8/</b>	5/2019	S	SeqNo: 21	00002	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	93.6	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % 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 limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: **1908146** *06-Aug-19* 

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albı. TEL: 505-345-3975 Website: www.ha	4901 Hav Iquerque, Ni FAX: 505-3	vkins NE M 87109 145-4107	Sam	ple Log-In	Check List
Client Name: GHD MIDLAND	Work Order Number:	1908146			RcptN	o: 1
Received By: Erin Melendrez	8/3/2019 9:30:00 AM		1L	N	<del>.</del>	
Completed By: Erin Melendrez	8/5/2019 7:42:26 AM		Ú-	NA NA	-	
Reviewed By: DAD 8/5/19				C		
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗹	No		Not Present	
2. How was the sample delivered?		<u>Courier</u>				
Log In						
3. Was an attempt made to cool the samples?		Yes 🗹	No		NA 🗌	
4. Were all samples received at a temperature o	f >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)?	2	Yes 🗹	No			
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No			
8. Was preservative added to bottles?		Yes 🗌	No	$\checkmark$	NA 🗌	
9. VOA vials have zero headspace?		Yes 🗌	No		No VOA Vials 🖌	
10. Were any sample containers received broken	?	Yes 🗌	No		# of preserved bottles checked	/
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No		for pH:	or 12 unless noted)
12. Are matrices correctly identified on Chain of C	ustody?	Yes 🗹	No		Adjusted2	
13. Is it clear what analyses were requested?		Yes 🗹	No			<b>E</b> . 1. <b>O</b> .
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No		Checked by:	ENH 8/5
Special Handling (if applicable)						
15. Was client notified of all discrepancies with th	is order?	Yes 🗌	No		NA 🗹	
Person Notified:	Date:			······		
By Whom:	Via:	eMail	Phone	Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						т. ф.
17. <u>Cooler Information</u>						
	al Intact Seal No	eal Date	Signed	Bv		

Page 1 of 1

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C	hain	-of-Cu	ustody Record	Turn-Around	Time:		] 🖪		tert.					NIX.	8 <b>-</b>	~~					Kecen
Client:	Gн	D		□ □ Standaro	Rusi	<u>.</u> 244 r															L VY
		<u> </u>		Project Nam				(1941) (1944)										KA		JR	i T 🤤
Mailing	Address	3: 2135	S Loop 250 W	Ga	laxy to	Hearns		40	04.11							ital.co		400			
		<u> </u>		Project #:	<u> </u>		-			аwкі )5-34							M 87				0/8/20
Phone		52 676		-	088210-8	ઙૡ		16	ม. อบ	/0-04	-0-31					-345 Jues	-4107 ;	, <b>Line</b>			i i i
			ornelas Eghd. com	Project Mana	ager:			Â					SO4								1:50
QA/QC I	Package:		-	1	nes Orneli	<b>~</b> S	TMB's (8021)	/ DRO / MRO)	CB's		8270SIMS		PO₄, S(			Abser					:50:25 PM
□ Stan			Level 4 (Full Validation)	·			B's	2 2 2	5 D		70S		2, P			ent/		0			M
Accredi		□ Az Co □ Other	ompliance	Sampler:	Joshua Pie	9 □ No	Ē		/808	4	or 82		NO <sub>2</sub> ,		4	<sup>o</sup> res		õ			
				# of Coolers:			BE /	GR(	ides	od 5(	10 0	tals	Ю <sub>3</sub> ,		í N	m (F		S.			
				Cooler Temp		-0.1(CF)=4.0°C	μT	15D	estic	etho	y 83	8 Me	Br, NO <sub>3</sub> ,	(YO	emi-	olifor		2.9			
Date	Time	Matrix	Sample Name	Container	Preservative Type	1908146	BTEX / MTBE	TPH:8015D(GRO	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310	2	CI, F, B	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)		2410			
8-2-19		S S	5-088210-84-080219-3R5-5b-	itet Same		-001	ш			<u> </u>	<u> </u>	<u></u>	0	80	8			×	$\rightarrow$	+	
8-2-19		s	5-088210-84-08021938-50-16	- 3	NA	-002												×		+	-+-
8-2-19		S	5-088210-84-080219-JP-5W-8-3		NA	-003		-										x	+	+	-
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				0	1															+	
Date: <b>8-2-19</b>	Time: 1515	Relinquish	ed by:	Received by:	Via:	Date Time 8/2/14 15/5	Rem	arks	ייייייייייייייייייייייייייייייייייייי	in pl ister	le 5 NA		510- 16 t	-3 -1492		5°b'	ا کم ا کم ا		ــــلـ ۲/ مرو رع ≤	e#	er 16-33
Date:	Time:	Relinquish	h by:	Received by!	Via:COUri	Cr Date Time SIZ/19									-			، ب ا		1	lo ck ago
	f necessary,	samples stic	initted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorio	es. This serves as notice of this	possib	oility. A	Any sul	b-contr	acted	data v	vill be	clearly	y nota	ted on	the and	alytical	repor	 t.	<i>1</i> 78

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August 14, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908500

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/9/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Analytical Report Lab Order: 1908500

Hall Environ	mental Analysis Laboratory	, Inc.				Lab Order: 1908300 Date Reported: 8/14	
	GHD Midland Galaxy to Hearns			L	⊿ab C	<b>Drder:</b> 1908:	500
Lab ID:	1908500-001	C	Collecti	on Date	: 8/(	6/2019 9:45:00 AN	Л
Client Sample ID:	S-088210-84-080619-JP-SW-19-3			Matrix	: SC	DIL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch II
EPA METHOD 300	).0: ANIONS					An	alyst: CAS
Chloride	370	60		mg/Kg	20	8/12/2019 5:29:59	PM 4671
Lab ID:	1908500-002	C	Collecti	on Date	e: 8/(	6/2019 10:05:00 A	M
Client Sample ID:	S-088210-84-080619-JP-SW-20-3			Matrix	: SC	DIL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch II
EPA METHOD 300	0.0: ANIONS					An	alyst: CAS
Chloride	370	60		mg/Kg	20	8/12/2019 6:32:01	PM 4671
Lab ID:	1908500-003	C	Collecti	on Date	: 8/6	6/2019 10:12:00 A	M
Client Sample ID:	S-088210-84-080619-JP-SW-21-3			Matrix	: SC	DIL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch II
EPA METHOD 300	0.0: ANIONS					An	alyst: CAS
Chloride	ND	60		mg/Kg	20	8/12/2019 6:44:25	PM 4671
Lab ID:	1908500-004	C	Collecti	on Date	e: 8/(	6/2019 10:20:00 A	.M
Client Sample ID:	S-088210-84-080619-JP-SW-22-3			Matrix	: SC	DIL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch II
EPA METHOD 300	0.0: ANIONS					An	alyst: CAS
Chloride	ND	60		mg/Kg	20	8/12/2019 6:56:50	PM 4671
Lab ID:	1908500-005	C	Collecti	on Date	e: 8/(	6/2019 10:35:00 A	.M
Client Sample ID:	S-088210-84-080619-JP-SW-23-3			Matrix	: SC	DIL	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch II
EPA METHOD 300	0.0: ANIONS					An	alyst: CAS
Chloride	ND	60		mg/Kg	20	8/13/2019 2:51:42	PM 4675

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

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

Page 1 of 3

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

H Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

Value exceeds Maximum Contaminant Level.

\*

D

Qualifiers:

					A	Analytical Repo	rt	
					L	ab Order: 190850	0	
Hall Environ	mental Analysis I	Laboratory, Inc			Ľ	Date Reported: 8/	14/20	19
CLIENT: (	GHD Midland			]	Lab O	<b>)rder:</b> 190	8500	
Project: (	Galaxy to Hearns							
Lab ID:	1908500-006		Col	lection Dat	e: 8/6	5/2019 1:45:00 P	M	
Client Sample ID:	S-088210-84-080619-JH	P-SW-24-3		Matri	x: SO	DIL		
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	E	Batch ID
EPA METHOD 300	0.0: ANIONS					٨	nalys	t: CAS
Chloride		540	60	mg/Kg	20	8/13/2019 3:53:4	15 PM	46757
Lab ID:	1908500-007		Col	lection Dat	e: 8/6	5/2019 2:25:00 P	'M	
Client Sample ID:	S-088210-84-080619-JH	P-SW-25-3		Matri	x: SO	OIL		
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	E	Batch ID
EPA METHOD 300	0.0: ANIONS					A	nalys	st: CAS
Chloride		ND	61	mg/Kg	20	8/13/2019 4:06:0		

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 range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 2 of 3

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:	GHD Midland
Project:	Galaxy to Hearns
Sample ID: MB-467	19     SampType: MBLK     TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 46719 RunNo: 62068
Prep Date: 8/12/2	019 Analysis Date: 8/12/2019 SeqNo: 2106697 Units: mg/Kg
Analyte Chloride	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ND 1.5
Sample ID: LCS-46	719     SampType: LCS     TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 46719 RunNo: 62068
Prep Date: 8/12/2	019 Analysis Date: 8/12/2019 SeqNo: 2106698 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14 1.5 15.00 0 93.5 90 110
Sample ID: MB-467	57 SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 46757 RunNo: 62096
Prep Date: 8/13/2	019 Analysis Date: 8/13/2019 SeqNo: 2108091 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-46	757 SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 46757 RunNo: 62096
Prep Date: 8/13/2	019 Analysis Date: 8/13/2019 SeqNo: 2108092 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 97.0 90 110

**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 range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

1908500

14-Aug-19

WO#:

Value above quantitation range

- Р

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ANALYSIS	Hall Environm L TEL: 505-345-	ental Analysis Labord 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345-4 w.hallenvironmental	s NE 7109 San 4107	Pag
Client Name: GHD MIDLA	ND Work Order Nun	nber: <b>1908500</b>		RcptNo: 1
Received By: Daniel Completed By: Leah Baca Reviewed By: K	M B/9/2019 B:30:00 / B/9/2019 10:25:32 8/らんしら		Last Bac	L
<u>Chain of Custody</u>				
1. Is Chain of Custody comple	ie?	Yes 🗹	No 🗌	Not Present
2. How was the sample deliver	ed?	Courier		
Log In		_	_	_
3. Was an attempt made to co	ol the samples?	Yes 🗹	No 🗌	
4. Were all samples received a	t a temperature of >0° C to 6.0°C	Yes 🔽	No 🗌	
5. Sample(s) in proper containe	er(s)?	Yes 🔽	No 🗌	
6. Sufficient sample volume for	indicated test(s)?	Yes 🖌	No 🗆	
7. Are samples (except VOA ar	d ONG) properly preserved?	Yes 🔽	No 🗌	
8. Was preservative added to b	ottles?	Yes	No 🗹	
9. VOA vials have zero headsp	ace?	Yes	No 🗌	No VOA Vials 🗹
10. Were any sample containers	received broken?	Yes 🗌	No 🗹	# of preserved bottles checked
11. Does paperwork match bottle (Note discrepancies on chair		Yes 🗹	No 🗌	for pH:
12. Are matrices correctly identif	ed on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?
13. Is it clear what analyses were	e requested?	Yes 🖌	No 🗌	
14. Were all holding times able to (If no, notify customer for aut		Yes 🗹	No 🗆	Checked by: DAD 8/9/1
<u>Special Handling (if appli</u>				
15. Was client notified of all disc	repancies with this order?	Yes 🗌	No 🗌	
Person Notified:	Date	•		
By Whom:	Via:	eMail P	hone 🗌 Fax	In Person
Regarding: Client Instructions:				
16. Additional remarks:				
17. Cooler Information				
Cooler No Temp °C	Condition Seal Intact Seal No.	Seal Date	Signed By	
ร้างการการการสาย และการการการสี่การการการการการการการการการการการการการก	Good Yes	Provide the second address of the second		
2 5.5 0	Good Yes			

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			ustody Record	1	-Around		72	zhr				ŀ	łA	LL	E	NV	/IF	201	NM	EN		L
	GHD				Standard ect Nam	l e'	⊡∕ Rusl	1 3 day				A	N.	AL	YS.	519	5 L	AE	BOR	۲A۶	<b>IOI</b>	RY
Mailing	Address	3' - •					••						ww	v.ha	llenv	viron	men	tal.co	m			
			S Loop 250 W	Proje	G-12)	****	• Heas	×\$		49	01 H	lawk	ins M	NE -	Alt	ouqu	erqu	ie, NM	M 8710	09		
			79703			8821	0-84	: •		Τe	el. 50	)5-34	5-3	_					4107			
email o	#: <b>437</b> r Fax#	2. 686	<u> </u>	Proje	ect Mana					(				P		IS	Req	uest				
	Package:		S. Ornelas@ghd. Com	jir toje		iyer.			(8021)	/ MRO)	s		S		SO₄			sent				
□ Stan	•		Level 4 (Full Validation)		Jam	es	ornel	San	S	0 / N	PCB's		8270SIMS		PO4,			t/Ab		00		
Accredi		□ Az Co □ Othe	ompliance er	Sam On Io	pler: <u>5</u> ce:	5.shu ⊡⁄4i	<u>r</u> Pìa		/ TMB	O / DRO	Pesticides/8082	(04.1)	or 827(		, NO <sub>2</sub> ,		(A)	Preser	/	Ň		
	(Type)			# of (	Coolers:	2-			MTBE	(GR	cides	od 5	310 (	etals	NO <sub>3</sub> ,	_	0/-	) E		ch l = r i d e		
				Cool Cont			i cF):4,2. ervative	0/=44/5/00/-552 HEAL NO.	-	TPH:8015D(GRO		EDB (Method 504.1)	PAHs by 8310 or	<b>RCRA 8 Metals</b>	F, Br, I	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
Date	Time	Matrix	Sample Name	Туре	and #	Туре		1908500	BTEX	Ē	8081		PA	RC	Ċ,	826	827	Tot	Í	EPA		
8-6-19	१५९	s	5-088210-84-080619-37-5-5-	194	Sample 23	N	14	-001												X		
	1005		5-088240-847 080619-3P-Su-20-3		Ī			-002												X		
	1012		5-088210-84-08061938-5-21-3					-003											Υ	,		
	1020		5-088210-84-080619-5P-5-22-3					-004											<u> </u>			
	1035		5-088210-84-080619-37-50-23-3					-005											Y			
	1345		5-088210-84-080619-5P.5w-24-3					-006											<u> </u>			
	1425		5-088210-84-080619-57-52-3		↓	<b></b>		-007						-					X	:		
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			1																	_		┡
Date: 🗲	Time:	Relinquist	hed by:	Receiv	ief By	Via:		Date Time	Ren	harks	 3:											
1925	<b>8-66-19</b>				p	17:		8/8/19 1400 Date Time	)													
Date:	Time:	Relinquist		Recei	jea by:	Via:		Date Time Tur 8/9/19 8:30	)													
<u>r716</u>	f necessarv	, samples su	bmitted to Hall Environmental may be subc	ontracte	d-te other a	ccredited				bilitv. 7	Any su	b-cont	racted	data	will be	clearl	y notai	ted on t	the analy	/lical rer		



August 15, 2019

James Orneles GHD Midland 2135 S Loop 250 W TEL: (432) 686-0086 FAX:

Midland, TX 79703

**RE:** Galaxy to Hearns

OrderNo.: 1908716

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/13/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### **Analytical Report** Lab Order: 1008716

Hall Environ	mental Analysis La	boratory, Iı	nc.				ab Order: <b>19</b> . Date Reported		/2019	
	GHD Midland Galaxy to Hearns				L	ab C	)rder:	19087	716	
Lab ID:	1908716-001		С	ollecti	on Date	: 8/9	9/2019 2:00:	00 PM	I	
Client Sample ID:	S-088210-84-080919-JP-S	W-26-3			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Anal	yzed	Bat	tch ID
EPA METHOD 300	0.0: ANIONS							Ana	alyst:	CAS
Chloride		110	60		mg/Kg	20	8/14/2019 3	:30:50	PM	46784
Lab ID:	1908716-002		С	ollecti	on Date	: 8/9	9/2019 2:05:	00 PM	[	
<b>Client Sample ID:</b>	S-088210-84-080919-JP-S	W-27-3			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analy	yzed	Bat	tch ID
EPA METHOD 300	0.0: ANIONS							An	alyst:	CAS
Chloride		ND	60		mg/Kg	20	8/14/2019 3	:43:14	PM	46784
Lab ID:	1908716-003		С	ollecti	on Date	: 8/9	9/2019 2:15:	00 PN	I	
Client Sample ID:	S-088210-84-080919-JP-S	W-28-3			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analy	yzed	Bat	tch ID
EPA METHOD 300 Chloride	0.0: ANIONS	460	60		mg/Kg	20	8/14/2019 3		alyst: PM	<b>CAS</b> 46784
Lab ID:	1908716-004		С	ollecti	on Date	: 8/9	9/2019 3:00:	00 PN	[	
Client Sample ID:		W-29-3			Matrix					
Analyses		Result	RL	Qual	Units	DF	Date Analy	yzed	Bat	tch ID
EPA METHOD 300	0.0: ANIONS							An	alyst:	CAS
Chloride		ND	60		mg/Kg	20	8/14/2019 7	':01:50	PM	46784
Lab ID:	1908716-005		С	ollecti	on Date	: 8/9	9/2019 9:05:	00 AN	1	
<b>Client Sample ID:</b>	S-088210-84-080919-JP-S	W-156-3			Matrix	: SC	DIL			
Analyses		Result	RL	Qual	Units	DF	Date Analy	yzed	Bat	tch ID
EPA METHOD 300	0.0: ANIONS							An	alyst:	CAS
Chloride		ND	60		mg/Kg	20	8/14/2019 7		-	46784

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

в

Analyte detected in the associated Method Blank Е

Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range Р P Sample pH Not I RL Reporting Limit

Page 1 of 2

.

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

H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

\*

D

Qualifiers:

Client: Project:		Midland xy to Hearns									
Sample ID:	MB-46784	SampTyp	e: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 46	784	F	RunNo: 62	2158				
Prep Date:	8/14/2019	Analysis Dat	ie: <b>8/</b>	14/2019	5	SeqNo: 21	09704	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: I	_CS-46784	SampTyp	be: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	CSS	Batch I	D: 46	784	F	RunNo: 62	2158				
Prep Date:	8/14/2019	Analysis Dat	ie: <b>8/</b>	14/2019	S	SeqNo: 21	09705	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	91.1	90	110			

#### Qualifiers:

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

- 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

## 15-Aug-19

1908716

WO#:

Page	105	of	102
ruge	103	U	170

<ul> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> </ul>	4		V_V_V_ Lad JBa No    No    No    No    No	Kan, Not Present [ NA [ NA [	
Completed By:       Leah Baca       8/13/2019 12:45:49 PM         Reviewed By:       EVA       S/13/19         Phain of Custody       S/13/19         Phain of Custody complete?       How was the sample delivered?         How was the sample delivered?       How was the sample delivered?         User all samples received at a temperature of >0° C to 6.0°C       Sample(s) in proper container(s)?         Sufficient sample volume for indicated test(s)?       Are samples (except VOA and ONG) properly preserved?         Was preservative added to bottles?       VOA vials have zero headspace?         VOA vials have zero headspace?       VoA vials have zero headspace?         Does paperwork match bottle labels?       (Note discrepancies on chain of custody)         Are matrices correctly identified on Chain of Custody?       Is it clear what analyses were requested?         Were all holding times able to be met?       (If no, notify customer for authorization.)	Yes <u>Cour</u> Yes Yes Yes		No    No    No    No	Not Present [ NA [ NA [	
Reviewed By: EOM       \$13/19         Phain of Custody       Shain of Custody complete?         Is Chain of Custody complete?       How was the sample delivered?         How was the sample delivered?       Standard Sta	Yes <u>Cour</u> Yes Yes Yes		No    No    No    No	Not Present [ NA [ NA [	
<b>Prain of Custody</b> Is Chain of Custody complete?         How was the sample delivered? <b>Log In</b> Was an attempt made to cool the samples?         Were all samples received at a temperature of >0° C to 6.0°C         Sample(s) in proper container(s)?         Sufficient sample volume for indicated test(s)?         Are samples (except VOA and ONG) properly preserved?         Was preservative added to bottles?         VOA vials have zero headspace?         Were any sample containers received broken?         Does paperwork match bottle labels? (Note discrepancies on chain of custody)         Are matrices correctly identified on Chain of Custody?         Is it clear what analyses were requested?         Were all holding times able to be met? (If no, notify customer for authorization.)         Decial Handling (if applicable)	<u>Cour</u> Yes Yes Yes Yes		No    No    No    No	Not Present [ NA [ NA [	
<ul> <li>Is Chain of Custody complete?</li> <li>How was the sample delivered?</li> <li>Log In</li> <li>Was an attempt made to cool the samples?</li> <li>Were all samples received at a temperature of &gt;0° C to 6.0°C</li> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	<u>Cour</u> Yes Yes Yes Yes		No	NA [ NA [	
<ul> <li>How was the sample delivered?</li> <li>Log In</li> <li>Was an attempt made to cool the samples?</li> <li>Were all samples received at a temperature of &gt;0° C to 6.0°C</li> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	<u>Cour</u> Yes Yes Yes Yes		No	NA [ NA [	
<ul> <li>Log In</li> <li>Was an attempt made to cool the samples?</li> <li>Were all samples received at a temperature of &gt;0° C to 6.0°C</li> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	Yes Yes Yes Yes	V V V	No	NA	
<ul> <li>Was an attempt made to cool the samples?</li> <li>Were all samples received at a temperature of &gt;0° C to 6.0°C</li> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	Yes Yes Yes	V V V	No	NA	
<ul> <li>Were all samples received at a temperature of &gt;0° C to 6.0°C</li> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	Yes Yes Yes	V V V	No	NA	
<ul> <li>Sample(s) in proper container(s)?</li> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	Yes Yes	<b>v</b>	No 🗌		
<ul> <li>Sufficient sample volume for indicated test(s)?</li> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met?</li> <li>(If no, notify customer for authorization.)</li> </ul>	Yes		No □		
<ul> <li>Are samples (except VOA and ONG) properly preserved?</li> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met?</li> <li>(If no, notify customer for authorization.)</li> </ul>					
<ul> <li>Was preservative added to bottles?</li> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met?</li> <li>(If no, notify customer for authorization.)</li> </ul>	Yes	✓	No 🗌		
<ul> <li>VOA vials have zero headspace?</li> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>					
<ul> <li>Were any sample containers received broken?</li> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> <li>Are matrices correctly identified on Chain of Custody?</li> <li>Is it clear what analyses were requested?</li> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ul>	Yes		No 🗹	na [	
. Does paperwork match bottle labels? (Note discrepancies on chain of custody) . Are matrices correctly identified on Chain of Custody? . Is it clear what analyses were requested? . Were all holding times able to be met? (If no, notify customer for authorization.)	Yes		No 🗌	No VOA Vials	⊿ (
(Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? Is it clear what analyses were requested? Were all holding times able to be met? (If no, notify customer for authorization.) Decial Handling (if applicable)	Yes		No 🗹	# of preserved	
Are matrices correctly identified on Chain of Custody? Is it clear what analyses were requested? Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	✓	No 🗌	for pH:	<2 of >12 unless note
. Were all holding times able to be met? (If no, notify customer for authorization.) Decial Handling (if applicable)	Yes	✓	No 🗌	Adjusted?	,
(If no, notify customer for authorization.)	Yes	✓	No 🗌		11000
	Yes		No 🗌	Checked b	1:768113
5. Was client notified of all discrepancies with this order?				/	
	Yes		No 🗌	NA	✓
Person Notified: Date	*****			90°	
By Whom: Via:	] eMa	· · · · · · · · · · · · · · · · · · ·	Phone 🗌 Fax	x IIn Person	
Regarding:					<b>er</b>
Client Instructions:					
6. Additional remarks:					
7. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Seal No Sea					

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		-of-Cı	ustody Record	Turn-Around	Time:		•1								те		NIKA		NT/		Kecen
Client:	GHD			] ⊡rStandaro	d ⊡^Rusł	1 3 day		1740-144 14	]										TO		
•	· · · · ·			Project Nam				D.: G-d	्री							tal.co		1.4	10		y ve
Mailing	Address	;: 2135	5 Loop 250 w Midland	6.	alaxy to	Hearns		49	<u>о1 н</u>								M 871	na			D:
	79703			Project #:										-	-		4107	05			1/0/2
		2 686	0086		088210-84	L										uest					
2			Ornelas R ghd. com	Project Mana	ager:		1	ô					SO4			nt)				Τ	.00.
	Package:					L	802	MR	PCB's		Β		PO4, S			vbse					1 07:00:
□ Star			Level 4 (Full Validation)		ames or		TMB's (8021)	RO	2 PC		8270SIMS		۲. ۲			ent/A		0			N.
Accred			ompliance	Sampler: て	Joshua Ri	<u>1</u> □ No	Σ	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082				NO <sub>2</sub> ,		2	Total Coliform (Present/Absent)		26			
	D (Type)	□ Other	<u></u>	# of Coolers			<u>Я</u> Е /	GRO	ides,	d 50	PAHs by 8310 or	tals	Br, NO <sub>3</sub> ,		8270 (Semi-VOA)	m (F		J			
						1-1.5(CF)=3.7°C	MTBE	15D(	estici	etho	y 83	RCRA 8 Metals	۲ ۲	(Yold State)	emi-	olifor		م م			
				Container	Preservative	HEAL No.	BTEX /	1:80	4 P	Ξ	q st	₹A 8	ш 	8260 (VOA)	0 (S	ы М		<u>را (۔ ،</u>			
Date	Time	Matrix	Sample Name	Type and #	Туре	1908716	BTE	뵵	808	Ë	PA	Р. С	Сi, F,	826	827	Tota		5			
8-9-19	1400	5	5-08821284-080919-JP-50-263	l at Sample beg	NA	- 001												×			
	1405	}	5-088210-84-080919.JP.Sw.27.3	7		-002												Y			
	1415		5-088210-84-089919-37-5-28-3			-003												×			
	1500		5-088210-84-080919-58-5~-29-3			- 004												×	1		
¥	905		5-088210-84-080919-38-54-156-3	*	7	-015												$\mathbf{X}$		1	T
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Date:	Time:	Relinquish	ed by:	Received by:	/ Via:	Date Time	Rem	arks	5:												
642-19 Date:	0700 Time:	Relinguish	nd hu	Received by:	Viaco	8/12/19 0930	>														SnJ
		Relinguish	1124	Received by:	<i>Via</i> CDur	ier 1934	5														rage 100 of
9-12-17	1700					8/13/14	noeeit	nility -		h_contr	acted	data u	vill be r	clearb	v pote	ted on t	the and	lution! •	onort	<u> </u>	
	It necessary,	, sampleš sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorio	es. This serves as notice of this	possib	oliity. <i>I</i>	Any su	o-contr	acted	data v	vill be i	clearly	y nota	ted on t	the ana	iytical r	eport.		170



August 16, 2019

Justin Nixon GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX

RE: Galaxy to Hearns

OrderNo.: 1908846

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Justin Nixon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/15/2019 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

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** 

**Project:** 

Lab ID:

Analyses

Chloride

Lab ID:

Analyses

#### **Analytical Report** Lab Order: 1908846 Hall Environmental Analysis Laboratory, Inc. Date Reported: 8/16/2019 GHD Midland Lab Order: 1908846 Galaxy to Hearns 1908846-001 Collection Date: 8/12/2019 9:55:00 AM Client Sample ID: S-088210-84-081219-JP-SW-28b-3 Matrix: SOIL **RL Qual Units DF Date Analyzed** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS 8/15/2019 6:18:54 PM 480 60 mg/Kg 20 46826 1908846-002 Collection Date: 8/12/2019 10:40:00 AM Client Sample ID: S-088210-84-081219-JP-SW-29b-3 Matrix: SOIL **RL Qual Units DF Date Analyzed Batch ID** Result Analyst: CAS

EPA METHOD 300	.0: ANIONS						An	alyst:	CAS
Chloride		ND	60		mg/Kg	20	8/15/2019 6:31:19	PM	46826
Lab ID:	1908846-003		С	ollecti	on Date	: 8/1	3/2019 11:15:00	AM	
Client Sample ID:	S-088210-84-081319-JP-S	W-30-3			Matrix	: SO	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS						An	alyst:	CAS
Chloride		100	60		mg/Kg	20	8/15/2019 6:43:43	PM	46826
Lab ID:	1908846-004		С	ollecti	on Date	: 8/1	3/2019 10:55:00	AM	
Client Sample ID:	S-088210-84-081319-JP-S	W-31-3			Matrix	: SO	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS						An	alyst:	CAS
Chloride		92	60		mg/Kg	20	8/15/2019 6:56:07	PM	46826

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 range due to dilution or matrix S

E Value above quantitation range

Analyte detected in the associated Method Blank

T Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

В

Page 1 of 2
Client: Project:		Midland xy to Hearns									
Sample ID: N	/IB-46826	SampTy	/pe: <b>ml</b>	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: F	PBS	Batch	ID: 46	826	F	RunNo: 62	2163				
Prep Date:	8/15/2019	Analysis Da	ate: <b>8/</b>	15/2019	5	SeqNo: 21	11412	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-46826	SampTy	pe: Ics	6	Tes	tCode: EF	A Method	300.0: Anion	S		
Client ID: L	.css	Batch	ID: 46	826	F	RunNo: 62	2163				
Prep Date:	8/15/2019	Analysis Da	ate: <b>8/</b>	15/2019	S	SeqNo: 21	11413	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.6	90	110			

**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 range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2

1908846

16-Aug-19

WO#:

#### Е Value above quantitation range

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 Ha Iquerque, N FAX: 505-3	vkins NE M 87109 845-4107	Sam	ple Log-In Check	Page 110 List
Client Name: GHD MIDLAND	Work Order Number:	1908846			RcptNo: 1	
Completed By: Erin Melendrez 8	0/15/2019 8:30:00 AM 0/15/2019 9:21:42 AM 0/15/19		U.	MA	7	
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🗸	N	o 🗌	Not Present	
2. How was the sample delivered?		Courier				
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	N	o 🗌	NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹	N	•		
5. Sample(s) in proper container(s)?		Yes 🗹	N	•		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	N	<b>b</b>		
7. Are samples (except VOA and ONG) properly p	reserved?	Yes 🗹	N	<b>b</b>		
8. Was preservative added to bottles?		Yes 🗌	No		NA 🗌	
9. VOA vials have zero headspace?		Yes 🗌	No	• 🗆	No VOA Vials 🗹	
10. Were any sample containers received broken?		Yes 🗀	N	o 🗹 . 🗂	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	N	• 🗆	for pH: (<2 or >12 unles	s noted)
12. Are matrices correctly identified on Chain of Cu	stody?	Yes 🗹	No	• 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	Ne	<b>5</b>		1/10
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No		Checked by: DAD 8	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this	order?	Yes 🗌	N	•		
Person Notified: By Whom:	Date: Date:	]eMail [	] Phone [	Fax	🗌 In Person	
Regarding:						

i

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16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			and a second
2	4.3	Good	Yes	n and in rate of the vehicle over a second of		
3	4.5	Good	Yes			

Page 1 of 1

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Client:	hain Gнр	-of-Ci	ustody Record	Turn-Around	d Time:	n 24 hA										ror AB				
				Project Nam	e:											al.cor		A 1	U,	
Mailing	Address	<sup>5:</sup> 2.135	\$ Loop 250 W	<u> </u>	laxy to	Hearns		49	01 Н							e, NM		0		
		Tx 7		Project #:	<u> </u>									-	-	-345-4		9		
		686		1 '	088210-84											uest				
email o	r Fax#:	justin	. Aixon @ghd. Com	Project Mana	ager:		1)	ô					SO4			nt)				Τ
	Package:		□ Level 4 (Full Validation)	Jos	tin Nixo	n	's (8021)	O / MRO)	PCB's		8270SIMS		PO4,			it/Abse		4		
			ompliance	Sampler:	Joshua A	ba No	TMB	/ DRO	082	<u>=</u> ]	827(		NO2			eser	1. 1.			
	-	D Other		On Ice.	Yes	D No	~	S.	les/8	504	ool	- 1	NO3.	Í	(YO	٦ ۲		5		
	(Type)			Cooler Temp	O(including CF):	fracks	MTBE	5D(0	sticio	thod	831	Meta	Σ	ŝ	∕-im	iforn		2		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEX / 1	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	Cl, F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	1 1 1 1 1	ŗ		3
8-12-19		S	5-088210-84-081219-3P.5w-286-3	Simple	NA	-001		-						8	8	<u>–</u>	×		-	╋
8-12-19		S	5-0882210-84-081219-578-50-296-3			-002					+					·				+
8-13-19	• •	s	5-088210-84-081319-JP-30-3			-003					-						×	<u> </u>		
	1055	S	5-088240-84-081319-31-3			-004						+						-		-
<u> </u>					-										-					
				-	.*							-	+	╡				-	1	
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															·					
												╈								+
														-†						1
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Date: 8-(3-(9	5:30 pm	Relinquish	+ (/	Received by	Via:	0/11/10/190	Rem C•		A	یل ک وط	1997 1 > 7	بر ۱۰۷	+0	Jo si	lei' hua	pien Pigg	1+ 2940	for 1. Co	+ ૫ ખ	.e .e
Date:	Time: <b>Ig (/)</b>	Refinquish	ed by:	Received by:	Via:	/Date Time	<b>с.</b> 0.9	† Ð:	221	12	41	170	9,2	<u> </u>	1.3	. <b>P`9</b>	1.38	0,22	=42	5

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August 19, 2019

Justin Nixon GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908847

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Justin Nixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/15/2019 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

							ab Order: 1	-		
Hall Environ	mental Analysis l	Laboratory, Inc	•				ate Reporte		/2019	
	GHD Midland Galaxy to Hearns				L	ab O	order:	19088	47	
Lab ID:	1908847-001		Co	lecti	on Date	: 8/1	4/2019 9:2	25:00 Al	М	
Client Sample ID:	S-088210-84-081419-J	P-SW-34-4'			Matrix	: SO	IL			
Analyses		Result	RL (	Qual	Units	DF	Date Ana	lyzed	Ba	tch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst:	CAS
Chloride		100	60		mg/Kg	20	8/16/2019	) 2:22:47 /	AM	46834
Lab ID:	1908847-002		Col	lecti	on Date	: 8/1	4/2019 8:3	37:00 Al	М	
Client Sample ID:	S-088210-84-081419-JJ	P-SW-32-3'			Matrix	: SO	IL			
Analyses		Result	RL (	Qual	Units	DF	Date Ana	alyzed	Bar	tch ID
EPA METHOD 300	.0: ANIONS							Ana	alyst:	CAS
Chloride		330	60		mg/Kg	20	8/16/2019	2:35:11	AM	46834

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 range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 1 of 2

Client: Project:		Midland y to Hearns									
Sample ID:	MB-46834	SampTyp	e: <b>mb</b>	olk	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch ID	): <b>46</b>	834	F	RunNo: <b>6</b> 2	2163				
Prep Date:	8/15/2019	Analysis Date	e: <b>8/</b>	16/2019	5	SeqNo: 2'	111451	Units: <b>mg/K</b>	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-46834	SampTyp	e: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch ID	): <b>46</b>	834	F	RunNo: 62	2163				
Prep Date:	8/15/2019	Analysis Date	e: <b>8/</b>	16/2019	5	SeqNo: 2'	111452	Units: <b>mg/K</b>	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.5	90	110			

#### Qualifiers:

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

- 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

1908847

19-Aug-19

WO#:

#### **Released to Imaging: 6/23/2023 8:59:01 AM**

Page	115	of	198

	HALL	NMENT/		TE	ll Environmen 2 L: 505-345-39 Website: www	490 Albuquerg 275 FAX:	01 Hawki nue, NM 505-345	ins NE 87109 <b>Sa</b> 5-4107	Pa
Client N	ame: (	GHD		Work	Order Numb	oer: 190	8847		RcptNo: 1
Received	ву: До	iniel F	1.	8/15/20	19 8:30:00 A	M			
Complete	ed By:	Erin Meler	ndrez	8/15/20	19 9:31:33 A	M		in	E-
Reviewe	d ву: Е	NM		8/15	19				
Chain c	of Custo	ody.							
1. Is Cha	ain of Cus	tody compl	lete?			Yes	$\checkmark$	No 🗌	Not Present
2. How v	vas the sa	ample deliv	ered?			Clier	<u>nt</u>		
Log In									
3. Was a	in attempt	t made to c	ool the sampl	es?		Yes		No 🗌	
4. Were a	all sample	es received	at a temperat	ture of >0° C	to 6.0°C	Yes	•	No 🗌	
5. Samp	le(s) in pro	oper contai	ner(s)?			Yes	~	No 🗌	
6. Sufficie	ent sampl	e volume fo	or indicated te	est(s)?		Yes		No 🗌	
7. Are sa	mples (ex	cept VOA	and ONG) pro	perly preserve	ed?	Yes	$\checkmark$	No 🗌	
8. Was p	reservativ	e added to	bottles?			Yes		No 🔽	NA 🗌
9. VOA v	ials have	zero heads	pace?			Yes		No 🗌	No VOA Vials 🗹
10. Were	any samp	le containe	ers received b	roken?		Yes		No 🗹	# of preserved bottles checked
ALC: NOT THE REAL PROPERTY OF		match bot cies on cha	tle labels? iin of custody	)		Yes	~	No 🗌	for pH: (<2 or >12 unless not
12. Are ma	atrices con	rrectly ident	tified on Chair	n of Custody?		Yes	V	No 🗌	Adjusted?
13. Is it cle	ear what a	inalyses we	ere requested	?		Yes	$\checkmark$	No 🗌	
			to be met? uthorization.)			Yes	~	No 🗌	Checked by: DAI) 8/1
Special I	Handlin	ig (if app	licable)						
15. Was o	lient notif	ied of all di	screpancies v	vith this order'	?	Yes		No 🗌	NA 🗹
	Person N	otified:			Date:	-			
	By Whom	r:			Via:	🗌 eM	ail 🗌	Phone 🗌 Fa	x 🔲 In Person
	Regarding							1	
	Client Inst	tructions:							
16. Addit	ional rema	arks:							
17. <u>Coole</u>	er Inform	The second se	200	5.55					
00.000	oler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed By	
1		1.1	Good	Yes					
2 3		4.3 4.5	Good Good	Yes Yes					
0			0000	103	hanne hard a be				

Page 1 of 1

Client: GHD	□ Standard Project Nam		thour	$\rightarrow$				A		LYS	SIS	5 L		OR	ENT		_
Mailing Address:	Gial	axy to	Hearns			490	01 Ha							" 8710	q		
	Project #:							5-345					-345-4		, 		
Phone #:	(	088210-	84		Ţ.,		T	-	5.15	Anal	ysis	Req	uest				
email or Fax#:	Project Mana	ager:			-	Ô				SO4			nt)				
QA/QC Package: ☐ Standard □ Level 4 (Full Validation)		Justin	Nixon	10/19	TMB's (8021)	O / MR	PCB's	1) 8270CIMAC		PO4,			Coliform (Present/Absent)				
Accreditation:  Accreditation:	Sampler: J	Ostrua P F/Yes	igg □ No	MPost.	TMB	O / DR	/8082	504.1) or 8770		NO <sub>2</sub> ,		4)	reser				
□ EDD (Type)	# of Coolers:	235	NM 8/15/19		BE /	GR	ides	10.5	tals	103,		07	m (F				
M/208/149	Cooler Temp Container		(marks	(°C)	X/MTBE	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	RCRA 8 Metals	CI,F, Br, NO3,	8260 (VOA)	) (Semi-VOA)	I Colifor				
Date Time Matrix, Sample Name	Type and #	Type	1908	547	BTEX	TPF	808		RCF 1	(i)	826	8270	Total				
14 9.25 501 5088210-84-081419			-001							X							
JP SW 34-41										X							
14 8:37 Sol 5-08 210-84-081419			-007.				1			1							
JPSW 32-3					6												
									-								
								_				_					
					_			_	-		_	_				_	_
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							-	-	-		-	-	-	-	$\vdash$	+	-
					-	-	-	-	-			-		-		+	-
								-				-			$\vdash$	+	_
ate: Time: Relinquished by:	Received by:	Via:	Date 8/14/19	Time /245	Rem	narks	:	: 1.1	° <sub>C</sub> ,	Ц.	( }	02	4.	3°c	,4.3	+0.2	21
ate: Time: Relinquished by?	Received/by:	Via: Contrel	Date	Time 8:20	V N	'eri	fied	Pr	j. N.	ami	2,1	านท	nbe	r ar	,4.3. Jost	nar	10



August 06, 2019

James Orneles GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Galaxy to Hearns

OrderNo.: 1908146

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear James Orneles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/3/2019 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

Hall Environ	mental Analysis La	aboratory, I	nc.			L	Analytical Report ab Order: 190814 Date Reported: 8/0	6	
	HD Midland alaxy to Hearns				L	ab C	<b>)rder:</b> 190	8146	
Lab ID: Client Sample ID:	1908146-001 S-088210-84-080219-JP-	5B-3	С	ollecti	on Date Matrix		2/2019 9:20:00 A DIL	М	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batcl	h ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	60		mg/Kg	20	A 8/5/2019 1:16:12	nalyst: <b>C</b> PM 46	: <b>JS</b> 6583
Lab ID:	1908146-002		С	ollecti	on Date	: 8/2	2/2019 10:45:00	AM	
Client Sample ID:	S-088210-84-080219-JP-	1B-3			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batcl	h ID
EPA METHOD 300	.0: ANIONS						A	nalyst: <b>C</b>	JS
Chloride		390	60		mg/Kg	20	8/5/2019 1:28:37	PM 46	6583
Lab ID:	1908146-003		С	ollecti	on Date	: 8/2	2/2019 1:50:00 P	М	
Client Sample ID:	S-088210-84-080219-JP-	8-3			Matrix	: SC	DIL		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batcl	h ID
EPA METHOD 300	.0: ANIONS						А	nalyst: <b>C</b>	JS
Chloride		420	60		mg/Kg	20		,	6583

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

Qualifiers:

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

\*

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix s

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 1 of 2

Client: Project:	GHD Midland Galaxy to Hearns									
Sample ID: MB-46	583 Samp	Type: <b>m</b> t	olk	Tes	tCode: EP	A Method	300.0: Anion	S		
Client ID: PBS	Batc	h ID: 46	583	F	RunNo: 61	924				
Prep Date: 8/5/2	019 Analysis I	Date: <b>8/</b>	5/2019	S	SeqNo: 21	00001	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-4	6583 Samp	Гуре: <b>Ics</b>	;	Tes	tCode: EP	A Method	300.0: Anion	S		
Client ID: LCSS	Batc	h ID: 46	583	F	RunNo: 61	924				
Prep Date: 8/5/2	019 Analysis I	Date: <b>8/</b>	5/2019	S	SeqNo: 21	00002	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	93.6	90	110			

**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 range due to dilution or matrix S

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

1908146

06-Aug-19

WO#:

Value above quantitation range

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-397	4901 Hawkii buquerque, NM 8	ns NE 87109 <b>San</b> -4107	nple Log-In C	Check List
Client Name: GHD MIDLAN	D Work Order Numbe	r: <b>1908146</b>		RcptNo:	: 1
Received By: Erin Melendr	ez 8/3/2019 9:30:00 AM		VL MA	7	
Completed By: Erin Melendr	ez 8/5/2019 7:42:26 AM		MA	<del>-</del>	
Reviewed By: DAD 8/5	/19				
Chain of Custody					
1. Is Chain of Custody complete	?	Yes 🗹	No 🗌	Not Present	
2. How was the sample delivere	d?	<u>Courier</u>			
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 🗌	NA 🗌	
5. Sample(s) in proper container	(s)?	Yes 🖌	No 🗌		
6. Sufficient sample volume for i	ndicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and	I ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bo	ttles?	Yes 🗌	No 🗹	NA 🗌	
9. VOA vials have zero headspa	ce?	Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers	received broken?	Yes 🗌	No 🗹	# of preserved bottles checked	
11. Does paperwork match bottle (Note discrepancies on chain		Yes 🗹	No 🗌	for pH:	12 unless noted
<ol><li>Are matrices correctly identifie</li></ol>	d on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were	requested?	Yes 🗹	No 🗌		
<ol> <li>Were all holding times able to (If no, notify customer for auth)</li> </ol>		Yes 🗹	No 🗌	Checked by:	NH 815
Special Handling (if applic	able)				
15. Was client notified of all discr	epancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	🔄 eMail 🗌 I	Phone 🗌 Fax	In Person	
Regarding:		·	·····		
Client Instructions:	<b>The and the second s</b>				
16. Additional remarks:	· · ·				.)
17. <u>Cooler Information</u>					
A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Condition Seal Intact Seal No	Seal Date	Signed By	W	

Page 1 of 1

C	hain	-of-Cu	ustody Record	Turn-Around	Time:		] 📕							NIX.	8 <b>-</b>	~~					Kecen
Client:	GH	D		□ □ Standaro	Rusi	ի <b>Հ.Քեր</b>											NN 20				L VY
		<u> </u>		Project Nam				e -coat)										KÆ	110	JR	LT 🤤
Mailing	Address		S ho-p 250 W	Ga	laxy to	Hearns		40	04.11							ital.co		100			U.
		<u>-:</u> ,, T <sub>x</sub> 7		Project #:	<u> </u>		1			аwк )5-34							M 87				0/8/20
Phone		52 676		-	088210-8	ઙૡ		1	ย. อเ	10-34	+ <b>-</b> -3					-345 Jues	-4107	( 			je stalina se stalina s
			ornelas Eghd. com	Project Mana	ager:			â					SO4								100
QA/QC I	Package:		-	1	nes Orneli	- S	TMB's (8021)	/ DRO / MRO)	CB's		IMS		PO₄, S(			Total Coliform (Present/Absent)					:50:25 PM
□ Stan			□ Level 4 (Full Validation)	·			B's	В В	Б Б		8270SIMS		Ъ, РС			ent/#					M
Accredi		□ Az Co □ Other	ompliance	Sampler:	Joshua Pie	9 <u>9</u> □ No	U U	0/0	/808;	94.1)	or 827		NO <sub>2</sub> ,		7	rese		000			
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# Appendix E Photographic Log



Photo 1 – Impacted access road area prior to excavation. View facing south-southeast.



Photo 2 – Southern access road excavation. View facing north.



**Site Photographs** 

GHD | Galaxy to Hearns Lay Flat | 088210-84| Page 1



Photo 3 – Excavation adjacent to CR 2. View facing north.



### **Site Photographs**

GHD | Galaxy to Hearns Lay Flat | 088210-84| Page 2

# Appendix F Waste Disposal Manifests

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James Kennedy 432-484-9146	Date:
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Dirt Exc SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	avation • Environmental • Production	N Services MANIFES
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James Kennedy 432-484 9196	********	Date:
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	SOBE DE LA	Production	MANIFES Lic. #386707
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ORK LOCATION (NAME)	Th up	API #	
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acility Contact Jamos Komedy			Date:
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isposal Site		Date:
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Dirt Ex	cavation • Environmental • Production	n Services
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SDR Enterpr 6222 S. Bro Hobbs, NM Office: 575-3	onco Dr. 1 88240			
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vation • Environmental • Production Serv	vices MANIFEST Lic. #386707
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	SORE ENTERPRESE	MANIFEST Lic. #386707
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CITY (IF APPLICABLE)C	COUNTY 20	STATE
Facility Contact		
James Kenned, James Kenned, 432-984-91	46	Date: 224 July Company
sposal Site Durelonce NM EI	UNICE	Date: Signature Yardage: Truck #: Driver's Signature Manifest Number: 0409
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James Kennedy U32-		Date: John John John John John John John John
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Facility Contact Junes Wennedy (733) (184 9196			Date: 7-24-14 Construction Signature	6
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	Some and the second		Lic. #386707	MANIFEST
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(32) 189-9146			Date: For Signature	b
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A Provide the second		Yardage: 20 y clicits
	4	Truck #: 0 J 4
		Driver's Signature Manifest Number: 0183

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ADDRESS	DATE 7-24-19
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Facility Contact	
James Kennod y 132-484-4146	Date: 1-24-14 - Control -
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431:30:	Yardage: <u>10 2 9 Als</u> Truck #: 029
000	Driver's Signature
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Dirt Excavation • Environmental • Production Service SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	vices MANIFEST Lic. #386707
SOG CUSTOMER	DATE 8-15-19 STATE NM
Facility Contact James Kennedy Disposal Site	Date:
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James Kennedy	Date:
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SDR Enterprises, LLC			
	Dirt Excavation • Environmental • Pro	oduction Services	
SDR Enterprises, LLC 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420		Lic. #3867	MANIFEST
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James Kennedy	Date:
sposal Site Sun Davce Mc	Date: Vardage: 20 Truck # 039 Rillen Hothally
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	Dirt Excavation • Environmental • Production	
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Junos kenedy		Date:
432)484.9146	*	Signature
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SDR Enterprise 6222 S. Bron Hobbs, NM 8 Office: 575-393	co Dr. 8240	Lic. #386707
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	SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420		Lic. #386707
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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	225570
	Action Type:
	[C-141] Release Corrective Action (C-141)

## CONDITIONS

Created By		Condition Date
amaxwell	None	6/23/2023

Action 225570