

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:

	Chloride	600 mg/kg
Depth to groundwater	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

Justin Nixon Project Manager

usti Misa

Jeff Walker

Senior Project Manager

Maller

TL/1

Attachments:

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



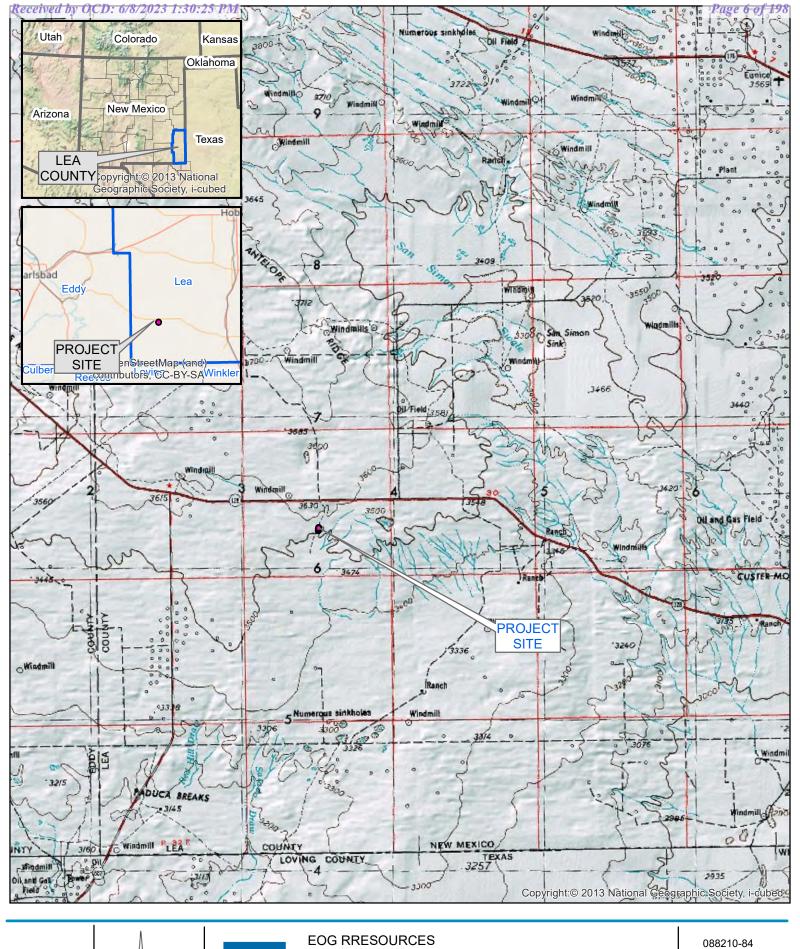
Appendix C – USGS Radius Map

Appendix D - Analytical Laboratory Reports

Appendix E - Photographic Log

Appendix F – Waste Disposal Manifests

Figures



Coordinate System: WGS 1984 UTM Zone 131

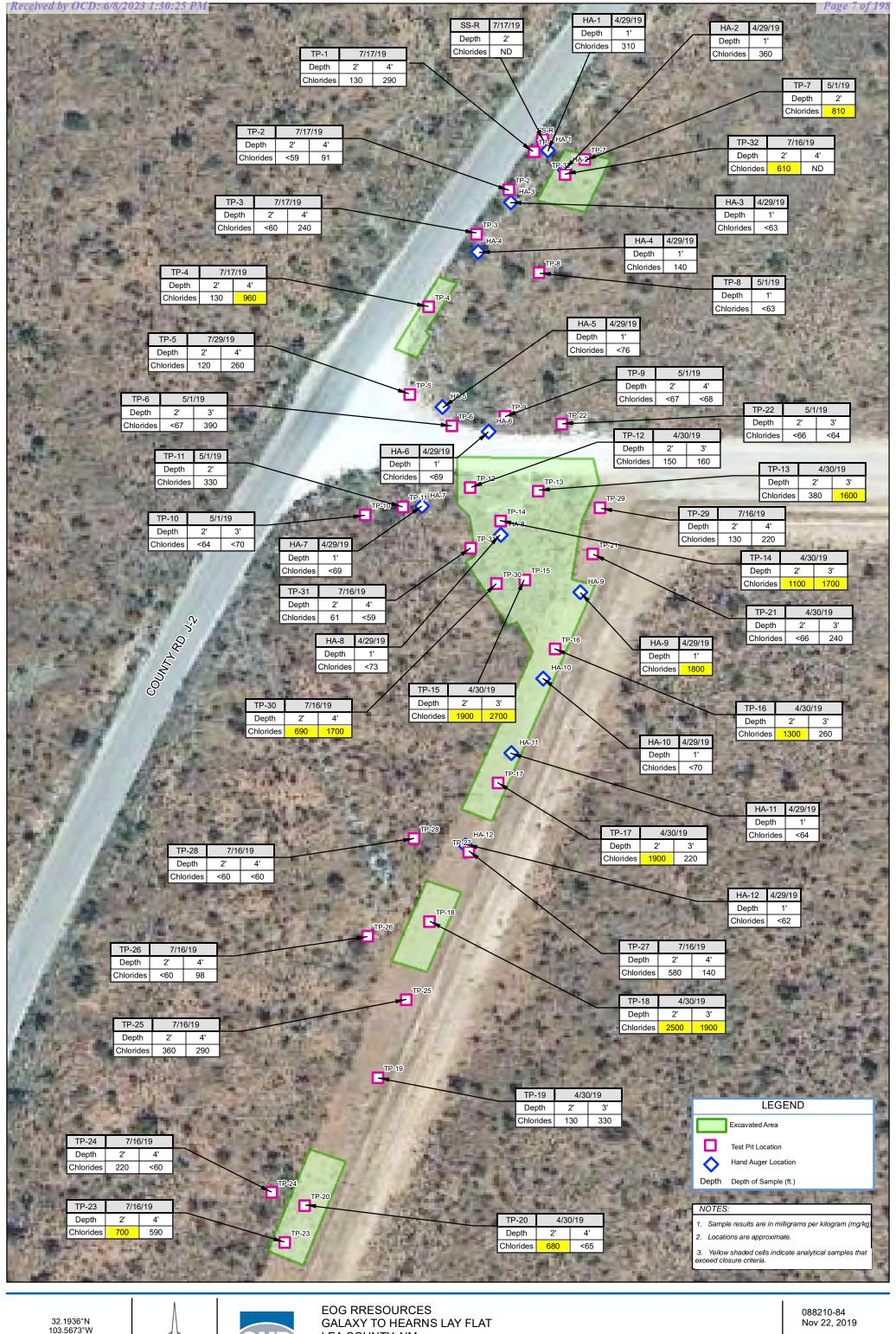


EOG RRESOURCES GALAXY TO HEARNS LAY FLAT LEA COUNTY, NM

SITE LOCATION MAP

Nov 19, 2019

FIGURE 1

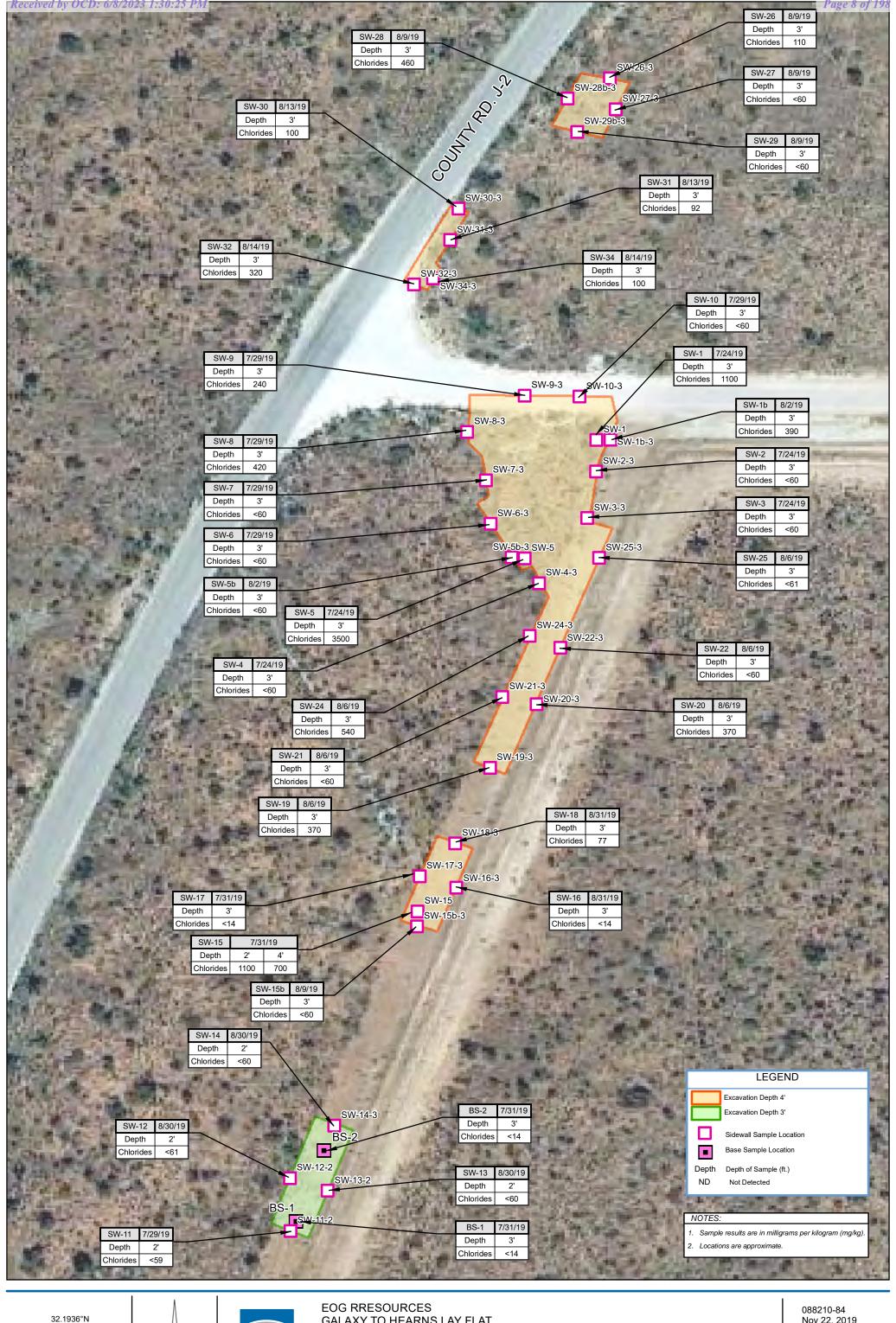


103.5673°W Coordinate System: GCS WGS 1984 Released to Imaging: 6/23/2023 8:59:01 AM

LEA COUNTY, NM

ASSESSMENT SAMPLE LOCATION MAP

FIGURE 2



32.1936°N 103.5673°W Coordinate System: GCS WGS 1984 Released to Imaging: 6/23/2023 8:59:01 AM

GALAXY TO HEARNS LAY FLAT LEA COUNTY, NM

CONFIRMATION SAMPLE LOCATION MAP

Nov 22, 2019

FIGURE 3

Table

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

	Depth		
Sample ID	(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-14-3'	3	4/30/2019	1700
S-088210-84-043019-JP-TP-15-2'	2	4/30/2019	1900
S-088210-84-043019-JP-TP-15-3'	3	4/30/2019	2700
S-088210-84-043019-JP-TP-16-2'	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

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

Т	Donth		
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

GHD-088210-84

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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	Closure Limits		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

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

Responsible Party: EOG Resources, Inc.

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

OGRID: 7377

Contact Name: Jamon Hohensee		Contact T	Contact Telephone: 432-556-8074		
Contact email: jamon_hohensee@eogresources.com			Incident #	(assigned by OCD)	NOY1828940305
Contact mailing addre	ess: 5509 Champions I	Dr., Midland Tex	xas		
		Location	of Release S	ource	
Latitude 32.19420 (NAD 83 in decimal of the control		Longitude ecimal degrees to 5 deci	mal places)	-103.56710	
Site Name: Galaxy to	Hearns layflat line		Site Type:	Layflat line	
Date Release Discover	red: 9/29/2018		API# (if ap	plicable)	
Unit Letter Section		Range	Cou	nty	State minerals
D 27	248	33E			
Surface Owner: 🛛 Sta	te 🗌 Federal 🔲 Tri	ibal 🔲 Private ((Name:)
_					
		Nature an	d Valuma of	Dalaasa	
		1 (ature an	a volume of	Release	
	erial(s) Released (Select all				olumes provided below)
Mat Crude Oil	erial(s) Released (Select all Volume Released	l that apply and attac			
		that apply and attac d (bbls)	h calculations or specific	Volume Recove	
Crude Oil	Volume Released	I that apply and attaced (bbls) d (bbls) 258 bbls ion of dissolved	h calculations or specific	Volume Recove	ered (bbls) ered (bbls) 75bbls
Crude Oil	Volume Released Volume Released Is the concentration	I that apply and attacted (bbls) d (bbls) 258 bbls ion of dissolved >10,000 mg/l?	h calculations or specific	Volume Recove	ered (bbls) ered (bbls) 75bbls
☐ Crude Oil ☐ Produced Water	Volume Released Volume Released Is the concentration produced water >	I that apply and attack d (bbls) d (bbls) 258 bbls ion of dissolved >10,000 mg/l? d (bbls)	h calculations or specific	Volume Recove Volume Recove Volume Recove Volume Recove	ered (bbls) ered (bbls) 75bbls ered (bbls)
☐ Crude Oil ☐ Produced Water ☐ Condensate	Volume Released Volume Released Is the concentration produced water > Volume Released	I that apply and attack d (bbls) d (bbls) 258 bbls ion of dissolved >10,000 mg/l? d (bbls) d (Mcf)	h calculations or specific	Volume Recove Volume Recove Volume Recove Volume Recove Volume Recove Volume Recove	ered (bbls) ered (bbls) 75bbls ered (bbls)

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NOY1828	940305	
District RP			
Facility ID	1RF-25		
Application ID	pOY18289	39480	

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.		
∑ Yes ☐ No			
24hr notice was not 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 p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury		
☐ The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human health and the environment.		
Released materials ha	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
All free liquids and re	coverable materials have been removed and managed appropriately.		
	l above have <u>not</u> been undertaken, explain why: Vac trucks were called to recover as much fluids as possible at nse personnel saw small area of pooled fluids and assumed they were contained to that terminus area.		
	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred		
	t 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 Hol	3// A		
Signature:	Date: 10-8-18		
email: jamon_hohensee@	eogresources.com Telephone: 432-556-8074		
	EIVED livia Yu at 11:01 am, Oct 16, 2018 Date:		

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	NOY1828940305	
District RP		,
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	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?	¥Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ✓ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ✓ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination	ls.
 ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps 	
Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

Page 4

State of New Mexico Oil Conservation Division

Incident ID	NOY1828940305	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: James Kennedy	Title: Environmental Supervisor
Signature: James F Kennedy email: james_kennedy@eogresources.com	Date: <u>01/15/2020</u>
email: james_kennedy@eogresources.com	Telephone: 432-848-9146
OCD Only	
Received by:Jocelyn Harimon	Date:06/08/2023

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

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

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.

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: Dames F Kennedy Date: 01/15/2020
Printed Name: James Kennedy Signature:
OCD Only
Received by: Jocelyn Harimon Date:06/08/2023
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 Maxwell Date: 6/23/2023
Closure Approved by: Ashley Maxwell Date: 6/23/2023 Printed Name: Ashley Maxwell Title: Environmental Specialist

Appendix B USGS Water Well Information



National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	•	United States	▼	GO

Click to hideNews Bulletins

- 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

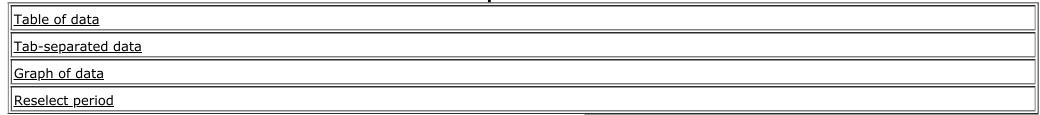
USGS 321017103343201 24S.33E.33.23231

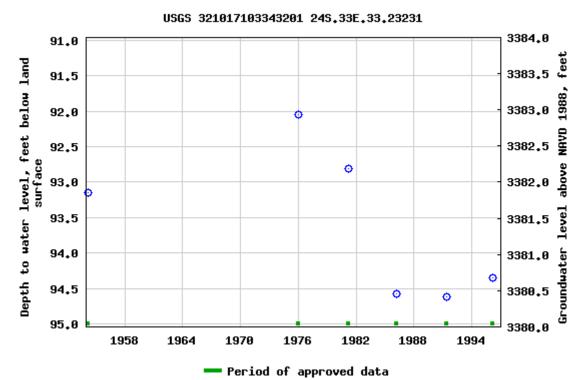
Available data for this site Groundwater: Field measurements ▼ GO
Lea County, New Mexico

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.

Output formats





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

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

Accessibility Plug-Ins FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?



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

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



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

Data Category: Geographic Area: GO Groundwater United States

Click to hideNews Bulletins

- Please see news on new formats
- Full News

USGS Water Resources

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

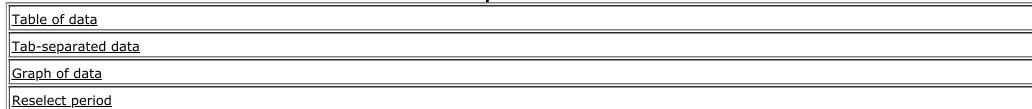
Available data for this site Groundwater: Field measurements

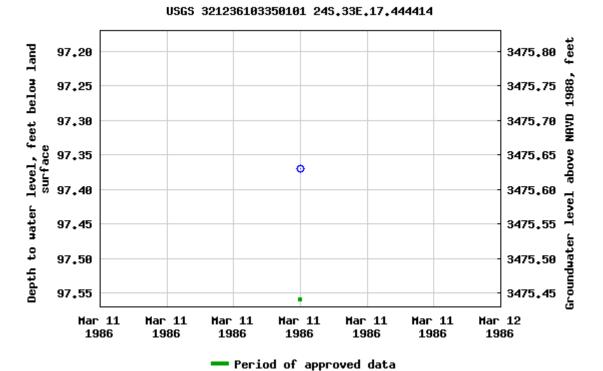
Lea County, New Mexico Hydrologic Unit Code --

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.

Output formats





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

Policies and Notices

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

News

Accessibility Plug-Ins FOIA Privacy U.S. Department of the Interior | U.S. Geological Survey

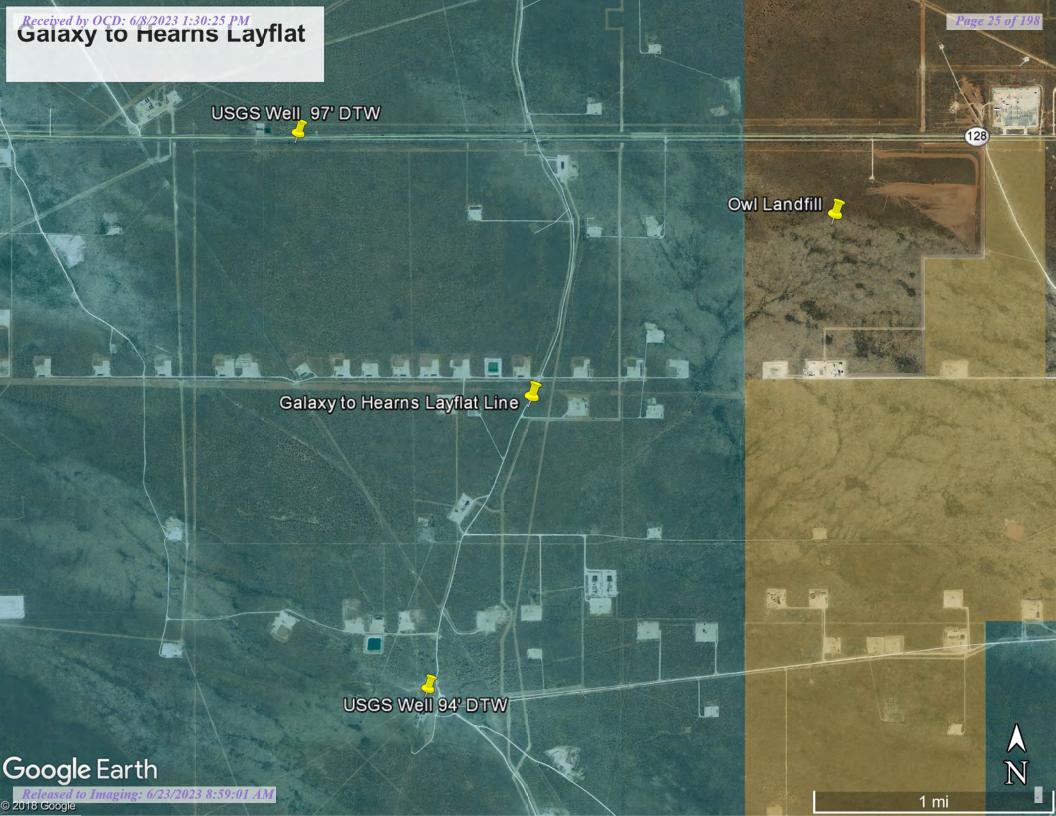
Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

USA.gov

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

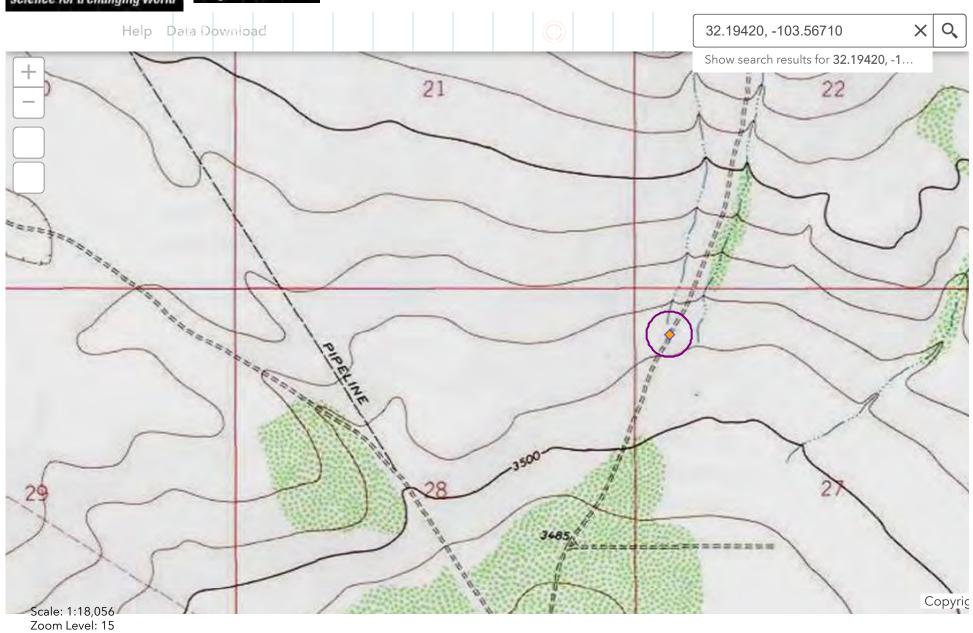
Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2019-04-24 19:02:05 EDT 0.93 0.88 nadww01



Appendix C USGS Radius Map

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





0.3mi

-103.559 32.196 Degrees

Appendix D Analytical Laboratory Reports



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

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **1905147**Date Reported: **5/8/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905147 **Project:** Galaxy to Hearns Lab ID: 1905147-001 Collection Date: 4/29/2019 12:20:00 PM Client Sample ID: S-088210-84-042919-JP-HA-1-1 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 15 1.0 wt% 5/6/2019 1:27:00 PM R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 70 5/3/2019 7:14:21 PM 44716 310 mg/Kg-dr 20 1905147-002 **Collection Date:** 4/29/2019 12:30:00 PM Lab ID: Client Sample ID: S-088210-84-042919-JP-HA-2-1 Matrix: SOIL Result **RL Oual Units DF Date Analyzed Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/6/2019 1:27:00 PM Percent Moisture 68 1.0 wt% R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 5/3/2019 7:26:46 PM 360 64 mg/Kg-dr 20 44716 Lab ID: 1905147-003 **Collection Date:** 4/29/2019 12:40:00 PM Client Sample ID: S-088210-84-042919-JP-HA-3-1 Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 5/6/2019 1:27:00 PM R59667 4.6 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 63 mg/Kg-dr 20 5/3/2019 7:39:11 PM 44716 1905147-004 Collection Date: 4/29/2019 12:50:00 PM Lab ID: Client Sample ID: S-088210-84-042919-JP-HA-4-1 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/6/2019 1:27:00 PM R59667 Percent Moisture 14 1.0 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride mg/Kg-dr 20 140 70 5/3/2019 7:51:36 PM 44716

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

- 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 4

Analytical Report

Lab Order: **1905147**Date Reported: **5/8/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905147 **Project:** Galaxy to Hearns Lab ID: 1905147-005 Collection Date: 4/29/2019 12:56:00 PM Client Sample ID: S-088210-84-042919-JP-HA-5-1 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 20 1.0 wt% 5/6/2019 1:27:00 PM R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 76 5/3/2019 8:04:01 PM 44716 mg/Kg-dr 20 Collection Date: 4/29/2019 1:15:00 PM Lab ID: 1905147-006 Matrix: SOIL Client Sample ID: S-088210-84-042919-JP-HA-6-1 Result **RL Oual Units DF Date Analyzed Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 13 5/6/2019 1:27:00 PM Percent Moisture 1.0 wt% R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 5/3/2019 8:16:25 PM ND 69 mg/Kg-dr 20 44716 Lab ID: 1905147-007 Collection Date: 4/29/2019 1:20:00 PM Client Sample ID: S-088210-84-042919-JP-HA-7-1 Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 5/6/2019 1:27:00 PM R59667 14 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND mg/Kg-dr 20 5/3/2019 8:28:50 PM 44716 1905147-008 Collection Date: 4/29/2019 1:30:00 PM Lab ID: Client Sample ID: S-088210-84-042919-JP-HA-8-1 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/6/2019 1:27:00 PM R59667 Percent Moisture 18 1.0 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride mg/Kg-dr 20 ND 73 5/3/2019 8:41:15 PM 44716

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

- 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 4

Analytical Report

Lab Order: **1905147**Date Reported: **5/8/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905147 **Project:** Galaxy to Hearns Lab ID: 1905147-009 **Collection Date:** 4/29/2019 1:45:00 PM Client Sample ID: S-088210-84-042919-JP-HA-9-1 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 4.9 1.0 wt% 5/6/2019 1:27:00 PM R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 1800 63 5/3/2019 8:53:40 PM 44716 mg/Kg-dr 20 1905147-010 Collection Date: 4/29/2019 1:55:00 PM Lab ID: Client Sample ID: S-088210-84-042919-JP-HA-10-1 Matrix: SOIL Result **RL Oual Units DF Date Analyzed Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/6/2019 1:27:00 PM Percent Moisture 14 1.0 wt% R59667 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 70 5/3/2019 9:06:05 PM ND mg/Kg-dr 20 44716 Lab ID: 1905147-011 Collection Date: 4/29/2019 2:10:00 PM Client Sample ID: S-088210-84-042919-JP-HA-11-1 Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 5/6/2019 1:27:00 PM R59667 4.6 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 64 mg/Kg-dr 20 5/3/2019 9:43:19 PM 44716 1905147-012 Collection Date: 4/29/2019 2:20:00 PM Lab ID: Client Sample ID: S-088210-84-042919-JP-HA-12-1 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/6/2019 1:27:00 PM Percent Moisture R59667 3.4 1.0 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb

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

62

ND

Qualifiers:

Chloride

- * 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

mg/Kg-dr 20

5/3/2019 9:55:43 PM

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

Page 3 of 4

44716

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1905147**

08-May-19

Client: GHD

Project: Galaxy to Hearns

Sample ID: MB-44716 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44716 RunNo: 59642

Prep Date: 5/3/2019 Analysis Date: 5/3/2019 SeqNo: 2010555 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-44716 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44716 RunNo: 59642

Prep Date: 5/3/2019 Analysis Date: 5/3/2019 SeqNo: 2010556 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

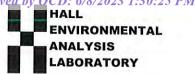
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	ent Name: GHD Work Order Number				ber: 190	5147			RcptNo: 1	7
Received By:	Jevon Ca	ampisi	5/2/201	9 10:30:00	АМ		Jun Co	mpoi		
Completed By:	Isaiah Or	tiz	5/3/201	9 9:00:54 A	М		Just Co	-C	24	
Reviewed By:	YG	51314							'	
LB: 1	DAD	573/19								
Chain of Cus	tody									
1. Is Chain of Cu	ustody comp	olete?			Yes	~	No		Not Present	
2. How was the	sample deli	vered?			Cou	rier				
Log In										
3. Was an attem	pt made to	cool the samp	oles?		Yes	V	No		NA 🗆	
4. Were all samp	oles received	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in p	oroper conta	niner(s)?			Yes	V	No			
6. Sufficient sam	ple volume	for indicated t	est(s)?		Yes	V	No			
7. Are samples (e				ed?	Yes	~	No			
8. Was preservat	tive added to	o bottles?			Yes		No	V	NA 🗆	
9. VOA vials have	e zero head	space?			Yes		No		No VOA Vials	
10. Were any sam	nple contain	ers received b	oroken?		Yes		No	V		
11.Does paperwo (Note discrepa			o)		Yes	✓	No		# of preserved bottles checked for pH: (<2 or >12	unless noted)
12. Are matrices c					Yes	~	No	П	Adjusted?	unicoo notca)
13. Is it clear what						V				
14. Were all holdin (If no, notify cu	34.00 S 340 9 (C)				Yes	V	No		Checked by: DAI	D 5/3/19
Special Handli	ing (if app	olicable)								
15. Was client not	tified of all d	iscrepancies	with this order?		Yes		No		NA 🗹	
Person I	Notified:			Date:	Г			-		
By Who	m:			Via:	☐ eMa	ail 🗌	Phone [Fax	☐ In Person	
Regardii							WANTED THE WATER DE			
Client In	structions:									
16. Additional ren	marks:									
17. Cooler Inform	mation									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed B	Зу		
1	0.6	Good	Yes							
2	3.6	Good	Yes							

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Chain-of-Custody Record			Turn-Around					IAI		FI	M	TE			ENIT	AI	Vecert			
Client: G-HD				□ Standard □ Rush Project Name: (ralaxy to Hearn C				HALL ENVIRONMENTAL ANALYSIS LABORATORY											0 0	
								www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												9
Mailing Address: 6121 Indian School Rd NE			<i>D</i> .																	
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email o	or Fax#:	Jeff.	Walter & Add Com	Project Mana	ager:		_	0					SO ₄			COR.				
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1905147	BTEX/	TPH:8015D(GRO	8081	EDB	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total	FRA		in.	
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	1355		5-088210-84-042919-31-44/10-1			-010											×		X	
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Date: 5-1-19	Time:	Relinquis	hed by:	Received by:	Via:	Date Time 5/1/17 1000	Ren	narks	S:											
Date:		Relinquis	hed by:	Received by:	Via: Courier															
11/19	190	41	ubinitted to Hall Environmental may be subq	ph.		1011						200	200			90019196	107 54			



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

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

GHD

Galaxy to Hearus

CLIENT:

Chloride

Analyses

Chloride

Project:

Analytical Report

Lab Order:

Lab Order: 1905386 Date Reported: 5/16/2019

1905386

Analyst: MRA

Batch ID

44847

5/10/2019 12:13:33 AM 44837

DF Date Analyzed

mg/Kg-dr 20 5/10/2019 6:22:55 PM

Hall Environmental Analysis Laboratory, Inc.

Lab ID: 1905386-001 **Collection Date:** 4/30/2019 1:50:00 PM Client Sample ID: S-088210-84-043019-JP-TP-12-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 8.7 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 65 5/10/2019 12:01:09 AM 44837 150 mg/Kg-dr 20 Lab ID: 1905386-002 **Collection Date:** 4/30/2019 2:00:00 PM Client Sample ID: S-088210-84-043019-JP-TP-12-3 Matrix: SOIL Result **RL Oual Units DF Date Analyzed Batch ID** Analyses PERCENT MOISTURE Analyst: JMR Percent Moisture 95 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS**

Lab ID: 1905386-003 Collection Date: 4/30/2019 2:10:00 PM Client Sample ID: S-088210-84-043019-JP-TP-13-2 Matrix: SOIL

Result

160

66

RL Qual Units

mg/Kg-dr 20

PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 5/9/2019 4:50:00 PM R59779 9.1 wt% **EPA METHOD 300.0: ANIONS** Analyst: MRA

1905386-004 Collection Date: 4/30/2019 2:25:00 PM Lab ID:

380

Client Sample ID: S-088210-84-043019-JP-TP-13-3 Matrix: SOIL

Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/9/2019 4:50:00 PM Percent Moisture 8.9 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride mg/Kg-dr 20 5/10/2019 7:00:10 PM 1600 66

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

Qualifiers:

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

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Page 1 of 6

Lab Order: **1905386**Date Reported: **5/16/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905386 **Project:** Galaxy to Hearus Lab ID: 1905386-005 **Collection Date:** 4/30/2019 1:35:00 PM Client Sample ID: S-088210-84-043019-JP-TP-14-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 14 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 70 5/10/2019 7:12:34 PM 44847 1100 mg/Kg-dr 20 Collection Date: 4/30/2019 1:42:00 PM Lab ID: 1905386-006 Client Sample ID: S-088210-84-043019-JP-TP-14-3 Matrix: SOIL Result **RL Oual Units DF Date Analyzed Batch ID Analyses** PERCENT MOISTURE Analyst: JMR Percent Moisture 12 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5/10/2019 7:24:58 PM 1700 68 mg/Kg-dr 20 44847 Lab ID: 1905386-007 Collection Date: 4/30/2019 1:18:00 PM Client Sample ID: S-088210-84-043019-JP-TP-15-2 Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 wt% 5/9/2019 4:50:00 PM R59779 11 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1900 67 mg/Kg-dr 20 5/10/2019 7:37:23 PM 44847 1905386-008 Collection Date: 4/30/2019 1:25:00 PM Lab ID: Client Sample ID: S-088210-84-043019-JP-TP-15-3 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR Percent Moisture 5/9/2019 4:50:00 PM 9.6 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: smb

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

170

2700

Qualifiers:

Chloride

- * 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

mg/Kg-dr 50

5/13/2019 5:52:41 PM

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

Page 2 of 6

44847

Lab Order: **1905386**Date Reported: **5/16/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905386 **Project:** Galaxy to Hearus Lab ID: 1905386-009 **Collection Date:** 4/30/2019 12:45:00 PM Client Sample ID: S-088210-84-043019-JP-TP-16-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 7.9 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 65 5/10/2019 8:27:01 PM 44847 1300 mg/Kg-dr 20 Collection Date: 4/30/2019 12:50:00 PM Lab ID: 1905386-010 Client Sample ID: S-088210-84-043019-JP-TP-16-3 Matrix: SOIL Result **RL Oual Units DF Date Analyzed Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/9/2019 4:50:00 PM Percent Moisture 83 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5/10/2019 8:39:26 PM 260 65 mg/Kg-dr 20 44847 Lab ID: 1905386-011 Collection Date: 4/30/2019 12:30:00 PM Client Sample ID: S-088210-84-043019-JP-TP-17-2 Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 wt% 5/9/2019 4:50:00 PM R59779 13 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1900 mg/Kg-dr 20 5/10/2019 8:51:51 PM 44847 1905386-012 Collection Date: 4/30/2019 12:36:00 PM Lab ID: Client Sample ID: S-088210-84-043019-JP-TP-17-3 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/9/2019 4:50:00 PM Percent Moisture 10 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA

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

220

Qualifiers:

Chloride

- * 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

mg/Kg-dr 20

5/10/2019 9:04:16 PM

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

66

Page 3 of 6

CLIENT:

Analyses

Analyses

Analytical Report

DF Date Analyzed

DF Date Analyzed

Batch ID

Batch ID

Lab Order: **1905386**Date Reported: **5/16/2019**

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1905386

Project: Galaxy to Hearus

GHD

Lab ID: 1905386-013 **Collection Date:** 4/30/2019 11:20:00 AM

Client Sample ID: S-088210-84-043019-JP-TP-18-2 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 8.9 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 2500 160 5/13/2019 6:05:06 PM 44847 mg/Kg-dr 50

Lab ID: 1905386-014 **Collection Date:** 4/30/2019 11:25:00 AM

Result

Client Sample ID: S-088210-84-043019-JP-TP-18-3 **Matrix:** SOIL

PERCENT MOISTURE Analyst: JMR Percent Moisture 10 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5/10/2019 9:29:06 PM 1900 67 mg/Kg-dr 20 44847

RL Oual Units

RL Qual Units

Lab ID: 1905386-015 **Collection Date:** 4/30/2019 11:05:00 AM

Result

Client Sample ID: S-088210-84-043019-JP-TP-19-2 Matrix: SOIL

 PERCENT MOISTURE
 Analyst: JMR

 Percent Moisture
 10
 1.0
 wt%
 1
 5/9/2019 4:50:00 PM
 R59779

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 130
 67
 mg/Kg-dr 20
 5/10/2019 9:41:30 PM
 44847

Lab ID: 1905386-016 **Collection Date:** 4/30/2019 11:15:00 AM

Client Sample ID: S-088210-84-043019-JP-TP-19-3 **Matrix:** SOIL

Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/9/2019 4:50:00 PM Percent Moisture 8.9 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride mg/Kg-dr 20 330 66 5/10/2019 9:53:55 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 4 of 6

CLIENT:

Analyses

Analyses

Analytical Report

Lab Order: **1905386**Date Reported: **5/16/2019**

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1905386

DF Date Analyzed

DF Date Analyzed

Batch ID

Batch ID

Project:	Galaxy to Hearus
I I O Ject.	Guiday to Heards

GHD

Lab ID: 1905386-017 **Collection Date:** 4/30/2019 10:40:00 AM

Client Sample ID: S-088210-84-043019-JP-TP-20-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 7.5 1.0 wt% 5/9/2019 4:50:00 PM R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 680 65 5/10/2019 10:06:20 PM 44847 mg/Kg-dr 20

Lab ID: 1905386-018 **Collection Date:** 4/30/2019 10:48:00 AM

Result

Client Sample ID: S-088210-84-043019-JP-TP-20-4 Matrix: SOIL

 PERCENT MOISTURE
 Analyst: JMR

 Percent Moisture
 8.1
 1.0
 wt%
 1
 5/9/2019 4:50:00 PM
 R59779

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 65
 mg/Kg-dr 20
 5/10/2019 10:18:44 PM
 44847

RL Oual Units

RL Qual Units

Lab ID: 1905386-019 **Collection Date:** 4/30/2019 1:00:00 PM

Result

Client Sample ID: S-088210-84-043019-JP-TP-21-2 Matrix: SOIL

 PERCENT MOISTURE
 Analyst: JMR

 Percent Moisture
 9.9
 1.0
 wt%
 1
 5/9/2019 4:50:00 PM
 R59779

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 66
 mg/Kg-dr 20
 5/10/2019 10:55:58 PM
 44847

Lab ID: 1905386-020 **Collection Date:** 4/30/2019 1:10:00 PM

Client Sample ID: S-088210-84-043019-JP-TP-21-3 **Matrix:** SOIL

Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/9/2019 4:50:00 PM Percent Moisture 7.4 1.0 wt% R59779 **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride mg/Kg-dr 20 5/10/2019 11:08:23 PM 44847 240 65

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

- 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 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1905386**

16-May-19

Client: GHD

Project: Galaxy to Hearus

Sample ID: MB-44837 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44837 RunNo: 59766

Prep Date: 5/9/2019 Analysis Date: 5/9/2019 SeqNo: 2016270 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-44837 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44837 RunNo: 59766

Prep Date: 5/9/2019 Analysis Date: 5/9/2019 SeqNo: 2016271 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.9 90 110

Sample ID: MB-44847 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44847 RunNo: 59804

Prep Date: 5/10/2019 Analysis Date: 5/10/2019 SeqNo: 2017920 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-44847 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44847 RunNo: 59804

Prep Date: 5/10/2019 Analysis Date: 5/10/2019 SeqNo: 2017921 Units: mg/Kg

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

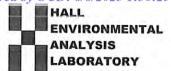
Chloride 15 1.5 15.00 0 97.3 90 110

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 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	GHD		Work	Order Numbe	r: 1905	386			RcptNo: 1
Received By:	Isaiah Ort	iiz	5/8/2019	9 8:50:00 AM			I.	_0	4
Completed By:	Isalah Ort	iiz	5/8/2019 3/8/1	9 10:41:14 AN	1		7.	_0	7
(B: D	AD 5	18/19	, ,						
Chain of Cust	ody	10/11							
1. Is Chain of Cu	stody comp	lete?			Yes	V	No		Not Present
2. How was the s	ample deliv	ered?			Couri	<u>er</u>			
Log In									
3. Was an attemp	ot made to	cool the samp	oles?		Yes	/	No		NA 🗆
4. Were all sampl	es received	at a tempera	ature of >0° C t	o 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in p	roper conta	iner(s)?			Yes	V	No		
6. Sufficient samp	le volume f	or indicated t	est(s)?		Yes	•	No		
7. Are samples (e	xcept VOA	and ONG) pr	operly preserve	d?	Yes		No		
8. Was preservati	ve added to	bottles?			Yes [No	V	NA 🗆
9. VOA vials have	zero heads	space?			Yes [No		No VOA Vials 🗹
0. Were any sam	ple containe	ers received b	oroken?		Yes		No	V	# of preserved
11. Does paperwor (Note discrepar			n)		Yes	V	No		bottles checked for pH: (<2 or >12 unless noted
2. Are matrices co	rrectly iden	tified on Cha	in of Custody?		Yes [1	No		Adjusted?
3, Is it clear what	analyses we	ere requested	1?		Yes	/	No		
Were all holding (If no, notify cust			ì		Yes		No		Checked by: DAD 5/8/19
Special Handlii	ng (if app	olicable)							
15. Was client noti	fied of all di	screpancies	with this order?		Yes		No		NA 🗹
Person N	lotified:			Date:	_	_		-	
By Whon				Via:	eMai		Phone [Fax	☐ In Person
Regardin Client Ins	g: structions:								
16. Additional rem	arks:								
17. Cooler Inform	nation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	Signed E	3v	
1	2.3	Good	Yes	23.00.012			_,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	7
2	2.1	Good	Yes						

Client:		3	ustody Record	Turn-Around				-	1A	LL	E	NV	/IF	20	NI	ME	:NT	ΓAL	_		
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<u> </u>				Project Name			-				www	v.hal	lenv	iron	men	tal.co	om				
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				Project #:				Te	el. 50	5-34	5-3	975	F	ax	505-	-345-	410	7			
Phone	#:8/1(6	(505) -	206 Albuquerque NM 884 0672		88210-84							A	naly	/sis	Req	uest	ì				
≈email o	r Fax#:	Jef	f. Walter @ ghd. com	Project Mana	ager:		=	nly)	80					04)							
QA/QC □ Stan	Package: dard		☐ Level 4 (Full Validation)	Te.	ffrey wa	\Ker	+ TMB's (8021)	TPH (Gas only)	RO/MRO			SIMS)		PO4,S	PCB's			527			
Accred				Sampler:	ffrey wa Toshua P	199	MB.	PH		=	7	8270 S		102,	1082			1,1			
□ NEL		□ Othe	er	On Ice:	Yes	□ No		+	(GRO	418.	504.1)	r 82	S	03,1	3/8		JA)	1	380		or N
	(Type)			Sample Tem	perature: z.	3.6 2.1.6	TBE	TBE	B (G	pou	pou	10 0	letal	C,N	icide	(A)	i-VC	300	weisture		> s
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	EPA 30	1. m.		Air Bubbles (Y or N)
9-30-19	1350	5	5-088210-84-043019-58-78-12-2	tre glass	tcī	-001	-					H						×	Y		
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	1410		5-088210-84-043019-79-79-13-2			-003								E			-	X	Y		
3/10	1425		5-088210-84-043019-78-78-13-3			-004						Œij						Y	X		
	1335		5-088210-84-043019-78-78-18-21			~0n5												X	V		
	1342		5-088210-84-043019-77-77-14-3			-006											- 7	X	V		317
	1318		5-088210-84-043019-79-79-152			-007												V	V		
	1325		5-088210-84-043019-7P-18-5			-008												X	Y		
	1245		5-088210-84-043019-79-78-162			-009												V	X		
	1250		5-088210-84-043019-78-78-16-3			-010												X	Y		
	1230		5-088210-84-043019.58-78-17.1			-011												X	Y		
4	1236	+	5-088210-84-043019-79-79-17-3	4	4	-017	11											X	У		1
Date: 5-5-19		Relinquish	49	Received by:		Date Time 5/7/19 0900	Rem	narks	:												
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Mailing NE Phone	Address	5: 612 1 200 A/L	Indian School Rd	Project #: 0 88210-84					HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											
QA/QC I	Package: idard		□ Level 4 (Full Validation)		frey Walk		TMB's (8021)	DRO / MRO)	2 PCB's		8270SIMS		2, PO ₄ , SO ₄			ent/Absent)			П	
Accredi □ NEL	itation:	☐ Az Co☐ Othe	ompliance	Sampler: C	Joshua Pig	S □ No	T	_	/808	14.1)	r 82		NO ₂ ,		7	rese	300	3		
□ EDD		_ otilo		# of Coolers:		LI NO	BE/	GR(ides)d 5(10 o	tals	103,		.00	m (F	2	Stur		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type		BTEX / MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	Cl, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	chloride	1. Moi		
4.30-19	1120	5	5-088210-84-043019-JP-TP-TB-Z	4 oz glass	2c1	-013											+	+		
1	1125		5-088210-84-043019-79-79-18-3		1	-014											+	1		
	1105		5-088210-84-043019-JP-TP-19-2			-015											+	X		
	1115		5-088210-84-043019-317-17-19-3			-016											+	+		
	1040		5-088210-84-043019-JP-TP-10-2			-0187											1	X		
	1048		5-08820-64-043019-58-78-20-9			-018											1	+		
	1300		5-088210-84-043019-517-71-21-2			-019											+	1		
Y	1300	1	5-088210-84043019-79-79-21-3	N. Carlotte	4	-070											+	+		
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Date: 5.5-17	Time:	Relinquish	led by:	Received by:	Via:	5/1/19 0900	Rem	narks	S:											
Date;	Time:	Relinquis	benitted to Hall Environmental may be subc	Received by:	Via: Cowter	Date Time		100		2000	20000								(



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

OrderNo.: 1905544

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1905544**Date Reported: **5/14/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905544 **Project:** Galaxy to Hearns Lay Flat Lab ID: 1905544-001 Collection Date: 5/1/2019 11:15:00 AM Client Sample ID: S-088210-84-050119-PL-TP-6-2' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR 5/10/2019 4:32:00 PM Percent Moisture 11 1.0 wt% R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 67 5/13/2019 11:40:21 AM 44858 mg/Kg-dr 20 **Collection Date:** 5/1/2019 11:18:00 AM Lab ID: 1905544-002 Matrix: SOIL Client Sample ID: S-088210-84-050119-PL-TP-6-3' Result **RL Oual Units** DF Date Analyzed **Batch ID** Analyses PERCENT MOISTURE Analyst: JMR Percent Moisture 8 7 1.0 wt% 5/10/2019 4:32:00 PM R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 5/13/2019 12:17:34 PM 44858 390 65 mg/Kg-dr 20 Lab ID: 1905544-003 Collection Date: 5/1/2019 11:26:00 AM Client Sample ID: S-088210-84-050119-PL-TP-9-2' Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 wt% 5/10/2019 4:32:00 PM R59848 11 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND mg/Kg-dr 20 5/13/2019 12:29:59 PM 44858 1905544-004 Collection Date: 5/1/2019 11:30:00 AM Lab ID: Client Sample ID: S-088210-84-050119-PL-TP-9-4' Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/10/2019 4:32:00 PM R59848 Percent Moisture 11 1.0 wt%

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

68

ND

Qualifiers:

Chloride

- 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

mg/Kg-dr 20

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

Page 1 of 4

Analyst: smb

5/13/2019 12:42:24 PM 44858

EPA METHOD 300.0: ANIONS

Lab Order: **1905544**Date Reported: **5/14/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 1905544 **Project:** Galaxy to Hearns Lay Flat Lab ID: 1905544-005 Collection Date: 5/1/2019 11:35:00 AM Client Sample ID: S-088210-84-050119-PL-TP-11-2' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR 5/10/2019 4:32:00 PM Percent Moisture 12 1.0 wt% R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 330 68 5/13/2019 12:54:49 PM 44858 mg/Kg-dr 20 Collection Date: 5/1/2019 12:30:00 PM Lab ID: 1905544-006 Matrix: SOIL Client Sample ID: S-088210-84-050119-PL-TP-10-2' Result **RL Oual Units** DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR Percent Moisture 67 1.0 wt% 5/10/2019 4:32:00 PM R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 5/13/2019 1:07:14 PM ND 64 mg/Kg-dr 20 44858 Lab ID: 1905544-007 Collection Date: 5/1/2019 12:35:00 PM Client Sample ID: S-088210-84-050119-PL-TP-10-3' Matrix: SOIL **Analyses** Result **RL Qual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 wt% 5/10/2019 4:32:00 PM R59848 14 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 70 mg/Kg-dr 20 5/13/2019 2:09:16 PM 44858 1905544-008 Collection Date: 5/1/2019 12:39:00 PM Lab ID: Client Sample ID: S-088210-84-050119-PL-TP-8-1' Matrix: SOIL Result RL Qual Units DF Date Analyzed **Batch ID Analyses** PERCENT MOISTURE Analyst: JMR 5/10/2019 4:32:00 PM R59848 Percent Moisture 3.6 1.0 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride mg/Kg-dr 20 ND 63 5/13/2019 2:21:41 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 4

CLIENT:

Analytical Report

Lab Order: 1905544

Date Reported: 5/14/2019

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1905544

GHD Project: Galaxy to Hearns Lay Flat

Lab ID: 1905544-009 Collection Date: 5/1/2019 12:43:00 PM

Client Sample ID: S-088210-84-050119-PL-TP-7-2' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR 5/10/2019 4:32:00 PM Percent Moisture 7.9 1.0 wt% R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 65 mg/Kg-dr 20 5/13/2019 2:34:05 PM 44858 810

Collection Date: 5/1/2019 1:00:00 PM Lab ID: 1905544-010

Client Sample ID: S-088210-84-050119-PL-TP-22-2' Matrix: SOIL

Analyses Result **RL Oual Units** DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 9.0 1.0 wt% 5/10/2019 4:32:00 PM R59848 **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 5/13/2019 2:46:30 PM 44858 ND 66 mg/Kg-dr 20

Lab ID: 1905544-011 **Collection Date:** 5/1/2019 1:05:00 PM

Client Sample ID: S-088210-84-050119-PL-TP-22-3' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID** PERCENT MOISTURE Analyst: JMR Percent Moisture 1.0 5/10/2019 4:32:00 PM R59848 6.6 wt% **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 64 mg/Kg-dr 20 5/13/2019 2:58:55 PM

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

Qualifiers:

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

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1905544**

14-May-19

Client: GHD

Project: Galaxy to Hearns Lay Flat

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: mg/Kg

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

Client ID: LCSS Batch ID: 44858 RunNo: 59849

Prep Date: 5/10/2019 Analysis Date: 5/13/2019 SeqNo: 2018823 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.3 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 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Client Name: GHD Work Order Number: 1905544 RcptNo: 1 Received By: Erin Melendrez 5/10/2019 8:50:00 AM Completed By: Leah Baca 5/10/2019 11:40:27 AM Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V NA 🗌 Sample(s) in proper container(s)? Yes V No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No _ 7. Are samples (except VOA and ONG) properly preserved? Yes V No 8. Was preservative added to bottles? No V Yes 🗌 NA 🗌 9. VOA vials have zero headspace? No 🗌 Yes No VOA Vials 10. Were any sample containers received broken? Yes 🗆 No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15

5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗸
Person Notified: By Whom:	Date Via: eMail	Phone 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
1	3.8	Good	Yes			

RCRA 8 Metals RCRA 8 Metals RCRA 8 Metals RCRA 8 Metals B260 (VOA) Aualysis Request Rotal Coliform (Present/Absent) Rotal Coliform (Present/Absent) Rotal Coliform (Present/Absent)
NO ₂ ,
etals NO3, NO2,) i-VOA) sture
RCRA 8 Metals RCRA 8 Metals 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Pre
XXX
X
XXX
X
X
X
XXX
X X
X
X
X



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

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **1907D79**Date Reported: **8/1/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1907D79

Project: Galaxy to Hearns

Lab ID: 1907D79-001 **Collection Date:** 7/24/2019 2:20:00 PM

Client Sample ID: S-0882010-84-072419JP SW-1-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 1100 60 mg/Kg 20 7/26/2019 5:43:12 PM 46427

Lab ID: 1907D79-002 **Collection Date:** 7/24/2019 2:25:00 PM

Client Sample ID: S-0882010-84-072419JP SW-2-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 ND
 60
 mg/Kg
 20
 7/26/2019 5:55:37 PM
 46427

Lab ID: 1907D79-003 **Collection Date:** 7/24/2019 2:30:00 PM

Client Sample ID: S-0882010-84-072419JP SW-3-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 ND
 60
 mg/Kg
 20
 7/26/2019 6:32:51 PM
 46427

Lab ID: 1907D79-004 **Collection Date:** 7/24/2019 2:35:00 PM

Client Sample ID: S-0882010-84-072419JP SW-4-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 7/26/2019 6:45:15 PM 46427

Lab ID: 1907D79-005 **Collection Date:** 7/24/2019 2:40:00 PM

Client Sample ID: S-0882010-84-072419JP SW-5-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 3500 150 mg/Kg 50 7/30/2019 12:52:34 AM 46427

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

- 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 2

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907D79**

01-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46427 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **46427** RunNo: **61674**

Prep Date: 7/26/2019 Analysis Date: 7/26/2019 SeqNo: 2091646 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46427 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46427 RunNo: 61674

Prep Date: 7/26/2019 Analysis Date: 7/26/2019 SeqNo: 2091647 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **GHD MIDLAND** Work Order Number: 1907D79 RcptNo: 1 C845 M87/80/19 Received By: **Desiree Dominguez** 7/26/2019 8:46.00 AM Completed By: 7/26/2019 11:27:05 AM Leah Baca 7/26/19 Reviewed By: Chain of Custody No 🔲 Not Present 1. Is Chain of Custody complete? Yes 🗸 2. How was the sample delivered? Courier Log In No 🗌 Was an attempt made to cool the samples? Yes 🗸 NA 🗆 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 NA 🗆 Yes 🗹 No 🗆 5. Sample(s) in proper container(s)? No \square Sufficient sample volume for indicated test(s)? Yes 🗹 7. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 🗌 Yes No 🗹 NA 🗌 8. Was preservative added to bottles? Yes 🗌 No \square No VOA Vials 9. VOA vials have zero headspace? Yes No 🗹 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗔 for pH: (<2 or >12 whiless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🗹 12. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 13. Is it clear what analyses were requested? Checked by: DAD No 🗆 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 15. Was client notified of all discrepancies with this order? No 🗌 NA 🗸 Person Notified: Date By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks:

17. Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Yes			Complete to the garden of the fact of the



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

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT:

Project:

Analytical Report

Lab Order: 1907817

Lab Order:

Hall Environmental Analysis Laboratory, Inc.

GHD Midland

Galaxy to Hearns

Date Reported: 7/19/2019

1907817

Lab ID: 1907817-001 Collection Date: 7/16/2019 9:15:00 AM Client Sample ID: S-088210-84-071619-JP-TP-23-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 700 60 7/18/2019 11:22:28 AM 46246 mg/Kg 20 Lab ID: 1907817-002 **Collection Date:** 7/16/2019 9:19:00 AM Client Sample ID: S-088210-84-071619-JP-TP-23-4 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 590 60 20 7/18/2019 11:34:53 AM 46246 mg/Kg 1907817-003 Collection Date: 7/16/2019 9:28:00 AM Lab ID: Client Sample ID: S-088210-84-071619-JP-TP-24-2 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID**

Lab ID: 1907817-004 **Collection Date:** 7/16/2019 9:35:00 AM

220

Client Sample ID: S-088210-84-071619-JP-TP-24-4 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

60

mg/Kg

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 60
 mg/Kg
 20
 7/18/2019 11:59:42 AM
 46246

Lab ID: 1907817-005 **Collection Date:** 7/16/2019 9:40:00 AM

Client Sample ID: S-088210-84-071619-JP-TP-25-2 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride 360 60 mg/Kg 20 7/18/2019 12:12:06 PM 46246

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

- 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 5

Analyst: MRA

7/18/2019 11:47:18 AM 46246

EPA METHOD 300.0: ANIONS

Chloride

Lab Order: 1907817

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/19/2019

CLIENT: GHD Midland Lab Order: 1907817 **Project:** Galaxy to Hearns Lab ID: 1907817-006 Collection Date: 7/16/2019 9:49:00 AM 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 300.0: ANIONS** Analyst: MRA Chloride 290 61 7/18/2019 12:24:31 PM 46246 mg/Kg 20 Lab ID: 1907817-007 Collection Date: 7/16/2019 9:58:00 AM Client Sample ID: S-088210-84-071619-JP-TP-26-2 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 20 7/18/2019 12:36:55 PM 46246 mg/Kg 1907817-008 Collection Date: 7/16/2019 10:05:00 AM Lab ID: Client Sample ID: S-088210-84-071619-JP-TP-26-4 Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 98 60 7/18/2019 12:49:19 PM 46246 mg/Kg Lab ID: 1907817-009 Collection Date: 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 300.0: ANIONS** Analyst: MRA Chloride 60 580 mg/Kg 7/18/2019 1:26:33 PM 46246 Lab ID: 1907817-010 **Collection Date:** 7/16/2019 10:21:00 AM Client Sample ID: S-088210-84-071619-JP-TP-27-4 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

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

140

Qualifiers:

Chloride

- * 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

mg/Kg

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

60

Page 2 of 5

46246

7/18/2019 1:38:58 PM

CLIENT:

Project:

Analytical Report

Lab Order: 1907817

Lab Order:

Hall Environmental Analysis Laboratory, Inc.

GHD Midland

Galaxy to Hearns

Date Reported: 7/19/2019

1907817

Lab ID: 1907817-011 Collection Date: 7/16/2019 10:30:00 AM Client Sample ID: S-088210-84-071619-JP-TP-28-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 7/18/2019 1:51:22 PM 46246 mg/Kg 20 Lab ID: 1907817-012 Collection Date: 7/16/2019 10:35:00 AM Client Sample ID: S-088210-84-071619-JP-TP-28-4 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 ND
 60
 mg/Kg
 20
 7/18/2019 2:28:36 PM
 46246

Lab ID: 1907817-013 **Collection Date:** 7/16/2019 10:41:00 AM

Client Sample ID: S-088210-84-071619-JP-TP-29-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 130
 60
 mg/Kg
 20
 7/18/2019 2:41:00 PM
 46246

Lab ID: 1907817-014 **Collection Date:** 7/16/2019 10:51:00 AM

Client Sample ID: S-088210-84-071619-JP-TP-29-4 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

220

60

mg/Kg

20

7/18/2019 11:23:42 AM

46249

Lab ID: 1907817-015 **Collection Date:** 7/16/2019 11:01:00 AM

Client Sample ID: S-088210-84-071619-JP-TP-30-2 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: smb

Chloride 690 60 mg/Kg 20 7/18/2019 11:36:06 AM 46249

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

- 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 5

Lab Order: 1907817

Date Reported: 7/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1907817 Project: Galaxy to Hearns Lab ID: 1907817-016 Collection Date: 7/16/2019 11:07:00 AM Client Sample ID: S-088210-84-071619-JP-TP-30-4 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 1700 60 7/18/2019 11:48:31 AM 46249 mg/Kg Lab ID: 1907817-017 **Collection Date:** 7/16/2019 11:28:00 AM Client Sample ID: S-088210-84-071619-JP-TP-31-2 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 61 59 20 7/18/2019 12:00:56 PM 46249 mg/Kg Lab ID: 1907817-018 Collection Date: 7/16/2019 11:40:00 AM Client Sample ID: S-088210-84-071619-JP-TP-31-4 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 59 mg/Kg 7/18/2019 12:38:10 PM 46249

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

- 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 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907817**

19-Jul-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46246 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46246 RunNo: 61473

Prep Date: 7/18/2019 Analysis Date: 7/18/2019 SeqNo: 2084960 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-46246 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46246 RunNo: 61473

Prep Date: 7/18/2019 Analysis Date: 7/18/2019 SeqNo: 2084961 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.1 90 110

Sample ID: MB-46249 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46249 RunNo: 61478

Prep Date: **7/18/2019** Analysis Date: **7/18/2019** SeqNo: **2085062** Units: **mg/Kg**

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

Chloride ND 1.5

Sample ID: LCS-46249 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46249 RunNo: 61478

Prep Date: 7/18/2019 Analysis Date: 7/18/2019 SeqNo: 2085063 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.8 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of 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 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Received By: Erin Melendrez Completed By: Erin Melendrez Reviewed By: DAD 7/17/19 Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? Log In	7/17/2019 8:45:00 AM 7/17/2019 9:16:43 AM		ina ina	ブ ブ	
Reviewed By: DAD 7/17/19 Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? Log In	7/17/2019 9:16:43 AM		u nz	ブ	
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? Log In					
Is Chain of Custody complete? How was the sample delivered? Log In					
How was the sample delivered? Log In					
Log In		Yes 🗹	No 🗌	Not Present	
		Client			
		<u>.</u>			
3. Was an attempt made to cool the samples?		Yes 🗹	No 🗀	NA 🗌	
4. Were all samples received at a temperature of	f >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample volume for indicated test(s)?		Yes 🗹	No 🗆		
7. Are samples (except VOA and ONG) properly	preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	,
10. Were any sample containers received broken'	?	Yes 🗆	No 🗹	# of preserved	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2,01	>12 unless noted)
12. Are matrices correctly identified on Chain of Ci	ustody?	Yes 🗹	No 🗆	Adjusted?	- AND
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:	-NM7/17/1
Special Handling (if applicable)					
15. Was client notified of all discrepancies with the	is order?	Yes 🗌	No 🗌	NA 🗹	_
Person Notified: Cornes O	nles Date:	71814			
By Whom: Leah Bala	Via:]eMail [¶ Phone ☐ Fax	☐ In Person	
Regarding: -005, -009	had time disc	creponay	es between	n COC and	abel
Client Instructions: Use the time	es on the COC			:	
16. Additional remarks:					J.
17. Cooler Information					
Cooler No Temp °C Condition Sea	I Intact Seal No S	eal Date	Signed By	Yaptoon	
1 3.9 Good Not F	Present			no.	

Relea	Chain	-of-C	ustody Record	Turn-Ar	ound	Time:					÷				_		# T F	. ~					
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Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT:

Analytical Report

Lab Order: 1907974

Lab Order:

Collection Date: 7/17/2019 11:03:00 AM

Matrix: SOIL

Hall Environmental Analysis Laboratory, Inc.

GHD Midland

Date Reported: 7/23/2019

1907974

Project: Galaxy to Hearns Lab ID: 1907974-001 Collection Date: 7/17/2019 11:15:00 AM Client Sample ID: S-088210-84-071719-JP-TP-1-2 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 130 61 mg/Kg 7/20/2019 3:02:21 PM 46295 20 Collection Date: 7/17/2019 11:18:00 AM Lab ID: 1907974-002 Client Sample ID: S-088210-84-071719-JP-TP-1-4 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 290 60 20 7/20/2019 4:04:23 PM 46295 mg/Kg 1907974-003 Collection Date: 7/17/2019 10:55:00 AM Lab ID: Client Sample ID: S-088210-84-071719-JP-TP-2-2 Matrix: SOIL Result RL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 59 mg/Kg 7/20/2019 4:16:47 PM 46295

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 91
 60
 mg/Kg
 20
 7/20/2019 4:29:12 PM
 46295

Lab ID: 1907974-005 **Collection Date:** 7/17/2019 10:35:00 AM

Client Sample ID: S-088210-84-071719-JP-TP-3-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 7/20/2019 4:41:36 PM 46295

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

Qualifiers:

Lab ID:

* Value exceeds Maximum Contaminant Level.

1907974-004

Client Sample ID: S-088210-84-071719-JP-TP-2-4

- 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 1 of 4

Lab Order: 1907974

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/23/2019

CLIENT: GHD Midland Lab Order: 1907974 **Project:** Galaxy to Hearns Lab ID: 1907974-006 Collection Date: 7/17/2019 10:43:00 AM Client Sample ID: S-088210-84-071719-JP-TP-3-4 Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 240 60 mg/Kg 7/20/2019 4:54:01 PM 46295 20 Lab ID: 1907974-007 **Collection Date:** 7/17/2019 10:20:00 AM Client Sample ID: S-088210-84-071719-JP-TP-4-2 Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 130 60 20 7/20/2019 5:06:25 PM 46295 mg/Kg 1907974-008 **Collection Date:** 7/17/2019 10:28:00 AM Lab ID: Client Sample ID: S-088210-84-071719-JP-TP-4-4 Matrix: SOIL Result RL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 960 60 mg/Kg 7/20/2019 5:18:50 PM 46295 Lab ID: 1907974-009 Collection Date: 7/17/2019 11:45:00 AM Client Sample ID: S-088210-84-071719-JP-TP-32-2 Matrix: SOIL **Analyses** Result **RL Qual Units DF** Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 60 610 mg/Kg 7/22/2019 11:17:21 PM 46313

1907974-010 Client Sample ID: S-088210-84-071719-JP-TP-32-4 Matrix: SOIL

RL Qual Units DF Date Analyzed Analyses Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: MRA

7/22/2019 11:29:45 PM 46313 Chloride ND 60 mg/Kg

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

Qualifiers:

Lab ID:

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

Analyte detected in the associated Method Blank

Collection Date: 7/17/2019 11:58:00 AM

- \mathbf{E} Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 2 of 4

Lab Order: 1907974

Date Reported: 7/23/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1907974

Project: Galaxy to Hearns

Lab ID: 1907974-011 **Collection Date:** 7/17/2019 11:21:00 AM

Client Sample ID: S-088210-84-071719-JP-SS-R-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride ND 60 mg/Kg 20 7/22/2019 11:42:10 PM 46313

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

- 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 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907974**

23-Jul-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46295 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46295 RunNo: 61542

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

Chloride ND 1.5

Sample ID: LCS-46295 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46295 RunNo: 61542

Prep Date: 7/19/2019 Analysis Date: 7/20/2019 SeqNo: 2085989 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.6 90 110

Sample ID: MB-46313 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46313 RunNo: 61554

Prep Date: 7/22/2019 Analysis Date: 7/22/2019 SeqNo: 2087114 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46313 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46313 RunNo: 61554

Prep Date: 7/22/2019 Analysis Date: 7/22/2019 SeqNo: 2087115 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.7 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 Quantitative 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 4 of 4



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Client Name: GHD MIDLAND		ber: 190	7974		RcptNo: 1	lo: 1				
Received By:	Desiree Dominguez	7/19/2019 9:25:00	АМ		D	2					
Completed By: Erin Melendrez		7/19/2019 11:01:4	1 AM		UL II	13					
Reviewed By:	ENM	7/19/19									
Chain of Custo	od <u>y</u>										
1. Is Chain of Cus	stody complete?		Yes	~	No [Not Present					
2. How was the s	ample delivered?		Cou	rier							
Log In											
	t made to cool the sample	s?	Yes	V	No E	□ NA □					
4. Were all sample	es received at a temperatu	re of >0° C to 6.0°C	Yes	V	No [□ NA □					
5. Sample(s) in pr	oper container(s)?		Yes	V	No [
6. Sufficient samp	le volume for indicated tes	t(s)?	Yes	V	No []					
7. Are samples (ex	cept VOA and ONG) prop	erly preserved?	Yes	V	No []					
8. Was preservativ	ve added to bottles?		Yes		No 🔽	NA 🗆					
9. VOA vials have	zero headspace?		Yes		No 🗆	No VOA Vials ✓					
10. Were any samp	ole containers received bro	ken?	Yes		No S	# of preserved					
	match bottle labels?		Yes	V	No [bottles checked for pH:	2 unless noted)				
12. Are matrices co	rrectly identified on Chain	of Custody?	Yes	~	No [Adjusted?					
	analyses were requested?		Yes	~	No [Der Stall Greichen				
	times able to be met?		Yes	V	No L	Checked by: DA	0 7/19/10				
Special Handlir	ng (if applicable)										
	fied of all discrepancies wi	th this order?	Yes		No [NA ✓					
Person N	otified:	Date				-					
By Whon	n:	Via:	□ еМ	ail 🗌	Phone F	ax In Person					
Regardin											
	tructions:										
16. Additional rem											
 Cooler Inform Cooler No 	ation Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed By	-01					
		Yes	Geal D	ale	oigned by						

Client:		of-Cu	ustody Record	Turn-Around		1 3 day											ENT	
6 ——— T				Project Nam	e:	-7											CAIC	PET
. Mailing	Address	: 2135	S Loop 250 west	(5-0	clary to t	tearns		400	1 🎞 a		w.ha						00	
•				Project #:	3		1							100		M 871	09	
-		- 686	79703		088210	-84		rei	. 505	-345-	_	-	-ax ysis	_		4107		
				Project Mana	ager:		_	only)	ô			Unicon					TT	
QA/QC F	Package:		☐ Level 4 (Full Validation)		James O		(8021)	sas or	O / MR		SIMS)		O4,SC	PCB's			∢	
Accredi			Level 4 (Full Validation)	Sampler:	-1	Δ\	IB's	TPH (Gas	DR(D ₂ ,P				GI CH	
□ NEL	AP.	□ Othe	er	On Ice:	Joshua MYes	□ No	+ TMB	+ TP	102	18.1	8270)3,N(1 80		(A)	300	or N
□ EDD	(Type)_			Sample Tem	perature: 3.	4-0.4=3.0%	MTBE .	MTBE	(G	2d 4	0 or	tals	I,NC	ides	4	-40		ا اگ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MT	BTEX + MT	TPH 8015B (GRO / DRO / MRO)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	chl-0-10	Air Bubbles (Y
7-17-19	1115	5	5-088210-84-071719-JP-7P-2-2	Sample	ICE	-001							Ì				×	
1	1118		5-088210-84-071719-57-17-1-4	7		-002											×	
	1055		5-088210-84-071719-JP-TP-2-2			-003											×	
	1103		5-088210-84-071719-78-78-24			-004											×	
	1035		5-088210-84-071719-312-3-2			-005					1			0			×	
	1043		5-088210-84-071719-78-78-3-4			-006											×	
	1020		5-088210-84-07119-78-78-4-2			-007											×	
	1028		5-088210-84-071719-JP-TP-4-4			-008											X	
	1145		5-088210-84-071719-7P-7P-327			-009							J				×	
	1158		5-088210-84-071719-79-77-32-4			-010											×	
*	1121	+	5-088210-84-071719-78-55-R-2	1	*	-011											×	
Date: 7-16-19	1615	Relinquish	2-/	Received by:			Rem	narks:										(
7/18/19	(9a)	A	hitted to Hall Environmental may be subco	-		7/19/19 9:25	s nossib	ility An	w enh	contracts	nd data	will be	clear	y note:	led or	the and	digal rapart	



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.: 1908021

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: **1908021**Date Reported: **8/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908021

Project: Galaxy to Hearns

Lab ID: 1908021-001 **Collection Date:** 7/29/2019 10:25:00 AM

Client Sample ID: S-088210-84-072919-JP-TP-S-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 120 60 mg/Kg 20 8/5/2019 11:46:29 PM 46581

Lab ID: 1908021-002 **Collection Date:** 7/29/2019 10:45:00 AM

Client Sample ID: S-088210-84-072919-JP-TP-S-4 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 260
 60
 mg/Kg
 20
 8/5/2019 11:58:54 PM
 46581

Lab ID: 1908021-003 Collection Date: 7/29/2019 8:55:00 AM

Client Sample ID: S-088210-84-072919-JP-SW-7-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 ND
 60
 mg/Kg
 20
 8/6/2019 12:36:08 AM
 46581

Chloride ND 60 mg/Kg 20 8/6/2019 12:36:08 AM 468

Lab ID: 1908021-004 **Collection Date:** 7/30/2019 9:25:00 AM

Client Sample ID: S-088210-84-073019-JP-SW-6-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 8/5/2019 3:17:43 PM 46581

Lab ID: 1908021-005 **Collection Date:** 7/30/2019 1:15:00 PM

Client Sample ID: S-088210-84-073019-JP-SW-11-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 59 mg/Kg 20 8/5/2019 3:30:08 PM 46581

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

- 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

Lab Order: **1908021**Date Reported: **8/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908021

Project: Galaxy to Hearns

Lab ID: 1908021-006 **Collection Date:** 7/30/2019 1:18:00 PM

Client Sample ID: S-088210-84-073019-JP-SW-12-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: CAS

Chloride ND 61 mg/Kg 20 8/5/2019 4:07:22 PM 46581

Lab ID: 1908021-007 **Collection Date:** 7/30/2019 1:25:00 PM

Client Sample ID: S-088210-84-073019-JP-SW-13-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 ND
 60
 mg/Kg
 20
 8/5/2019 4:19:47 PM
 46581

Lab ID: 1908021-008 **Collection Date:** 7/30/2019 3:10:00 PM

Client Sample ID: S-088210-84-073019-JP-SW-14-2 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 8/5/2019 4:32:11 PM 46581

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

- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908021**

06-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46581 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **46581** RunNo: **61901**

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2099842 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46581 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46581 RunNo: 61901

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2099843 Units: mg/Kg

Analyte Result 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

Page 3 of 3



Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **GHD MIDLAND** Work Order Number: 1908021 RcptNo: 1 Received By: Leah Baca 8/1/2019 9:05:00 AM 8/1/2019 10:58:59 AM Completed By: Erin Melendrez 8/1/19 Reviewed By: Chain of Custody Yes 🗸 Not Present 1. Is Chain of Custody complete? No _ 2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes 🗸 No NA No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 No 🗌 Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? No V NA 🗌 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes No V 10. Were any sample containers received broken? Yes # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes 🗸 No 🗔 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No 🗌 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? ~ No 🗌 Checked by: DAD 8/1/19 Yes 🗸 14. Were all holding times able to be met? No 🗔 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: Phone Fax Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 0.6 Good Not Present

R				
eleas	C	hain	-of-C	usto
sed to 1	Client:	GHD)	
maging:	Client: Mailing Midl Phone email o QA/QC Stan	Address	5: 2135	5 Lo
6/2	Midl	and T	× 74	703
3/20	Phone	#: 45	2 67	6 00
23 8	email o	r Fax#:	Jame	s. or
8:59	QA/QC	Package:		
10:	□ Stan	dard		□ Le
AM	Accredi	tation:	□ Az C	omplia
	□ NEL		□ Othe	
	□ EDD	(Type)		
	Date	Time	Matrix	Sam
	7-29-19	1025	5	5-088
	7-29-19	1045		5-088
			1 1	

Client:	nain	-0T-CI	ustody Record	Turn-Around	Time.					F	IA		E	NV	IF	105	ME	ENT	AL 8
Cherit.	GHD)		☐ Standard		1 3 day												ATO	-
				Project Name	e:	7	72		10							tal.cor		1200	5
Mailing	Address	2135	5 Loop 250 W	G.	alaxy to	Heacus		49	01 H								 1 87109)	D: 0
		× 747		Project #:	,					5-34						-345-4			07.70
Phone :	#: 45	2 67	6 0076		088510-84	f.			1			A	nal	ysis	Req	uest			
email o	r Fax#:	Jame	s. Ornelas @ glid. com	Project Mana	ager:		1	0				1	SO ₄			nt)			:30:23
QA/QC	Package:			_			(8021)	/ DRO / MRO)	PCB's		SMI					Abse			23 FM
□ Stan	N		☐ Level 4 (Full Validation)		Tames O		TMB's	RO			708		2, Р			ent/	75		
Accredi		☐ Az Co	ompliance	Sampler: 3	Toshun P ✓Yes	□ No	_		808	504.1)	r 82		8		7	res	7		
		□ Otne		# of Coolers:		LI NO) 3E/	GRC	des/	d 50	00	als	03,		10/	n (F	2		
	(-) -/.			The second secon		y -0.2 = 0.6C	MTBE	5D(stici	tho	83,	Met	Z	(A)	-imi	lifori	300		
Date	Time	Matrix	Sample Name	Container		1908021	BTEX/	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI, F, Br, NO ₃ , NO ₂ , PO ₄ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	EPA 3		
7-29-19		5	5-088210-84-072919-37-77-5-2	# grz grs. nple					-								×		1
7-29-19		Í	5-088210-84-072919-51-72-5-4	Pag	1	-002				\exists							×		++
7-29-19			5-088210-84-072919-JP.5W-7-3			-003											X		
7-30-19			8-088210-84-073019-Jp-Sw-663			-004											×		
	1315		5-08820-84-073019-JP-5W-1+2			-005											×		
	1318		5-088210-84-073019-78-5w-(2-2			-006											٠		
+	1325		5-088210-84-073019-78-52-13-2		1	-007											×		
1	1510	4	5-088210-84-073019-38-5-142	1	1	-008											x		
] [
Date: 7-30-19	Time:	Relinquish	ped by:	Received by:	Via:	Date Time 7/3//19 0900	Rem	arks	:										
Date:	Time:	Reunquish	ed by:	Received by	Via: Cowie														rage /9 of
1. 1.	1000	AII		Laila	(0)	3/19 0905													3



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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: 1908087

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/6/2019

	GHD Midland Galaxy to Hearns			L	ab C	order:	19080	987
Lab ID: Client Sample ID:	1908087-001 S-088210-84-073119-JP-BS-1-3	C	ollecti	on Date Matrix		81/2019 8: DIL	:45:00 Al	M
Analyses	Result	RL	Qual	Units	DF	Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	60		mg/Kg	20	8/2/2019		alyst: CAS M 46569
Lab ID:	1908087-002	C	ollecti	on Date	: 7/3	31/2019 8	:55:00 Al	М
Client Sample ID:	S-088210-84-073119-JP-BS-2-3			Matrix	: SC	OIL		
Analyses	Result	RL	Qual	Units	DF	Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	60		mg/Kg	20	8/2/2019	Ana 5:35:52 P	alyst: CAS M 46569
Lab ID:	1908087-003	C	ollecti	on Date	: 7/3	31/2019 10	0:10:00 A	AM
Client Sample ID:	S-088210-84-073119-JP-SW-15-2			Matrix	: SC	OIL		
Analyses	Result	RL	Qual	Units	DF	Date An	alyzed	Batch ID
EPA METHOD 300	0.0: ANIONS	60		mg/Kg	20	8/2/2019		alyst: CAS M 46569
Lab ID: Client Sample ID:	1908087-004 S-088210-84-073119-JP-SW-15-4	C	ollecti	on Date Matrix		81/2019 10 M	J:15:00 A	AM
Analyses	Result	RL	Qual			Date An	alyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS 770	59		mg/Kg	20	8/2/2019	Ana 6:00:41 P	alyst: CAS M 46569
Lab ID:	1908087-005	С	ollecti	on Date	: 7/3	31/2019 2	25:00 PN	M
Client Sample ID:	S-088210-84-073119-JP-SW-16-3			Matrix	: SC	OIL		
Analyses	Result	RL	Qual	Units	DF	Date An	alyzed	Batch ID
EPA METHOD 300	D.O: ANIONS						Ana	alyst: CAS
Chloride	ND	60		mg/Kg	20	8/2/2019	6:13:05 P	-

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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

Lab Order: **1908087**Date Reported: **8/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908087

Project: Galaxy to Hearns

Lab ID: 1908087-006 **Collection Date:** 7/31/2019 2:28:00 PM

Client Sample ID: S-088210-84-073119-JP-SW-17-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 8/2/2019 6:25:30 PM 46569

Lab ID: 1908087-007 **Collection Date:** 7/31/2019 2:45:00 PM

Client Sample ID: S-088210-84-073119-JP-SW-18-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 77 60 mg/Kg 20 8/2/2019 6:37:55 PM 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
- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908087**

06-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46569 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46569 RunNo: 61879

Prep Date: 8/2/2019 Analysis Date: 8/2/2019 SeqNo: 2098318 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46569 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46569 RunNo: 61879

Prep Date: 8/2/2019 Analysis Date: 8/2/2019 SeqNo: 2098319 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	GHD MIDL	AND	Work On	der Number	: 190	3087			RcptNo	: 1
Received By:	CHRIS B.		8/2/2019 9	:00:00 AM						
Completed By:	Desiree De	ominguez	8/2/2019 9	:48:26 AM			17	-		
Reviewed By:	DAD '	8/2/19					رمهسا	- ₹		
Chain of Cus	stod <u>y</u>									
1. Is Chain of C	ustody compl	ete?			Yes	✓	No		Not Present	
2. How was the	sample deliv	ered?			Cou	<u>ier</u>				
Log In 3. Was an atten	npt made to c	ool the sample	es?		Yes	~	No		NA 🗆 🤇	
	•	•				_		_		
4. Were all sam	ples received	at a temperat	ure of >0°C to 6	.0°C	Yes	~	No		NA 🗆	
5. Sample(s) in	proper contail	ner(s)?			Yes	✓	No			
6. Sufficient sam	nple volume fo	or indicated te	st(s)?		Yes	✓	No			
7. Are samples ((except VOA a	and ONG) proj	perly preserved?		Yes	✓	No			
8. Was preserva	itive added to	bottles?			Yes		No	✓	NA 🗆	
9. VOA vials hav	/e zero heads	pace?			Yes		No		No VOA Vials 🗹	/
10. Were any sar	mple containe	rs received br	oken?		Yes	Ц	No		# of preserved	
11. Does paperwo					Yes	✓	No		bottles checked for pH:	r >12 uniess noted)
12. Are matrices of		•	of Custody?		Yes	✓	No		Adjusted?	
13, Is it clear wha	t analyses we	re requested?			Yes	✓	No		/、	10 -1 1
14. Were all holdi					Yes	✓	No		Checked by:	16 8121K
(If no, notify of								Ų	<i></i>	
15. Was client no			ith this order?		Yes		No		NA 🗹	
Person	Notified:			Date:	/XX T				· · · · · · · · · · · · · · · · · · ·	No.
By Who	om:			Via: [∃ eMa	 ail □ l	Phone	Fax	☐ In Person	
Regard	ing:	OMERICA AT 1 1 10 10 10 10 10 10 10 10 10 10 10 10								
Client I	nstructions:									
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İ				Contair	ner	Prese	ervative	LHEAL No.	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHS by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent)													
Date	Time	Matrix	Sample Name	Туре а		Туре		908087	BTEX BTEX B081 EDB (EDB (CI, F, CI, F, CI, F, CI, F, CI, E, CI,													
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	1015		5-088210-84-073119-5P-5W-15-4	ţ				-004												×		
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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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

CLIENT:

Analytical Report

Lab Order: **1908G19**Date Reported: **9/3/2019**

Hall Environmental Analysis Laboratory, Inc.

1908G19

Lab Order:

Project: Galaxy to Hearns

GHD Midland

Lab ID: 1908G19-001 **Collection Date:** 8/26/2019 3:10:00 PM

Client Sample ID: S-088210-84-082619-JP-SW-9-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 240 60 mg/Kg 20 8/29/2019 11:20:45 AM 47134

Lab ID: 1908G19-002 **Collection Date:** 8/26/2019 3:00:00 PM

Client Sample ID: S-088210-84-082619-JP-SW-10-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: 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

- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908G19**

03-Sep-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-47134 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **47134** RunNo: **62503**

Prep Date: 8/28/2019 Analysis Date: 8/28/2019 SeqNo: 2126703 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-47134 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 47134 RunNo: 62503

Prep Date: 8/28/2019 Analysis Date: 8/28/2019 SeqNo: 2126704 Units: mg/Kg

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client N	lame:	GHD MIDLA	AND	Work Order Nu	mber: 1908G19		RcptNc	p: 1
Received Complete Reviewe	ed By:	Dang Michelle G ENM	(1 M . arcia	8/28/2019 8:45:01 8/28/2019 9:38:3 8/28/19		Mikul	Gorcia	
Chain c								
1. Is Cha	ain of C	ustody comple	ete?		Yes 🗹	No 🗀	Not Present	
2. How v	was the	sample delive	ered?		<u>Courier</u>			
Log In	!							
3. Was a	an atten	npt made to co	ool the sam	ples?	Yes 🗹	No 🗌	NA 🗆	
4. Were	all sam	ples received	at a temper	ature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sampl	le(s) in	proper contair	ner(s)?		Yes 🔽	No 🗌		
6. Sufficie	ent sam	nple volume fo	r indicated t	test(s)?	Yes 🗹	No 🗌		
7, Are sa	ımples (except VOA a	nd ONG) pi	roperly preserved?	Yes 🗹	No 🗌		
8. Was p	reserva	tive added to	bottles?		Yes 🗀	No 🗸	NA 🗆	
9. VOA v	rials hav	/e zero headsp	pace?		Yes 🗌	No 🗀	No VOA Vials 🗹	
10. Were	any sar	mple container	s received l	broken?	Yes	No 🗹	# of preserved	
		ork match bott ancies on chai		v)	Yes 🗹	No 🗆	bottles checked for pH:	r >12 unless noted)
				in of Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it cle	ear wha	t analyses wei	re requested	1?	Yes 🗸	No 🗌		((
		ng times able ustomer for au)	Yes 🗸	No □	Checked by:	UP 08/38/19
Special I	Handi	ing (if appl	licable)					•
15. Was c	lient no	tified of all dis	crepancies	with this order?	Yes 🗌	No 🗆	NA 🗹	
ı	Person	Notified:		Date	e:			
E	By Who	om:		Via:	eMail] Phone [Fax	In Person	
F	Regardi	ing:					Hamada y 18 a dammada Hallimannininin —	
	Client Ir	nstructions:			· · · · · · · · · · · · · · · · · · ·			
16. Additi	ional rei	marks:				•		<u></u>
17. <u>Coole</u>	er Infor	mation						
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<u>email o</u>	r Fax#:	justin.	nixon@gld.com	Project Mana	ager:			=	nly)	စ္စါ				040				İ			
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	7 0.00		BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method	PAH's (8310 or	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)		01 EP		Air Bubbles (Y or N)
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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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: **1908146**Date Reported: **8/6/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908146

Project: Galaxy to Hearns

Lab ID: 1908146-001 **Collection Date:** 8/2/2019 9:20:00 AM

Client Sample ID: S-088210-84-080219-JP-5B-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride ND 60 mg/Kg 20 8/5/2019 1:16:12 PM 46583

Lab ID: 1908146-002 **Collection Date:** 8/2/2019 10:45:00 AM

Client Sample ID: S-088210-84-080219-JP-1B-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: CJS

Chloride

390

60

mg/Kg

20

8/5/2019 1:28:37 PM

46583

Lab ID: 1908146-003 **Collection Date:** 8/2/2019 1:50:00 PM

Client Sample ID: S-088210-84-080219-JP-8-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 420 60 mg/Kg 20 8/5/2019 1:41:02 PM 46583

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

- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908146**

06-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46583 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46583 RunNo: 61924

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2100001 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46583 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46583 RunNo: 61924

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2100002 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.6 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: GHD MIDLAND	Work Order Number	1908146		RcptNo	p: 1
Received By: Erin Melendrez	8/3/2019 9:30:00 AM		uns	7	
Completed By: Erin Melendrez	8/5/2019 7:42:26 AM		UNI UNI	-	
Reviewed By: DAD 8/5/19			, ,		
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	s?	Yes 🗹	No 🗆	na 🗆	
4. Were all samples received at a temperatu	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	,
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 \square	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received bro	oken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆		12 unless noted)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗀	Adjusted2	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		r. v. 1 0
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No □ سر	Checked by:	WH 815/11-
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via: [eMail	Phone 🗌 Fax	☐ In Person	
Regarding:				T T	
Client Instructions:					
16. Additional remarks:					•
17. Cooler Information Cooler No Temp °C Condition 1 4.0 Good	Seal Intact Seal No S	Seal Date	Signed By		

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email o	r Fax#:	james	ornelas Eghd. com	Project Mana	ager:	<u></u>	5	ô		ŀ			SO_4			nt)				П	:30.
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Accredi		☐ Az Co ☐ Othe	ompliance r	Sampler: 3	Joshua Pie	3 S □ No	I ~ I	to / DR	s/8082	504.1)	or 827(, NO ₂ ,		(A)	Preser		300			
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Date	Time	Matrix	Sample Name	Cooler Temp Container Type and #	Precenyative	-81(CF)=4.8°C HEAL No. 1908146	BTEX / MTBE	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)		chlorio			
8-2-19	920	5	5-088210-84-080219-5R5-5b-	tet Sample	NA	-001											\dashv	×	寸	\exists	
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Date:	Time:	Reliaquish	by:	Received by	Via:COUri												, ·	. •	·	·	Page 95 of 1
ı	f necessary,	samples sub	omitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorio	es. This serves as notice of this	possib	ility. A	ny sul	b-conti	acted	data v	will be	clearly	y nota	ted on	the ana	alytical	report	í.	198



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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: 1908500

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/14/2019

CLIENT: GHD Midland Lab Order: 1908500

Project: Galaxy to Hearns

Lab ID: 1908500-001 **Collection Date:** 8/6/2019 9:45:00 AM

Client Sample ID: S-088210-84-080619-JP-SW-19-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 370 60 mg/Kg 8/12/2019 5:29:59 PM 46719 20

Lab ID: 1908500-002 Collection Date: 8/6/2019 10:05:00 AM

Client Sample ID: S-088210-84-080619-JP-SW-20-3 Matrix: SOIL

RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 370 60 20 8/12/2019 6:32:01 PM 46719 mg/Kg

1908500-003 **Collection Date:** 8/6/2019 10:12:00 AM Lab ID:

Client Sample ID: S-088210-84-080619-JP-SW-21-3 Matrix: SOIL

Result RL Qual Units DF Date Analyzed Analyses **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 8/12/2019 6:44:25 PM 46719

Lab ID: 1908500-004 Collection Date: 8/6/2019 10:20:00 AM

Client Sample ID: S-088210-84-080619-JP-SW-22-3 Matrix: SOIL

Analyses Result **RL Qual Units DF** Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 8/12/2019 6:56:50 PM 46719

Lab ID: 1908500-005 **Collection Date:** 8/6/2019 10:35:00 AM

Client Sample ID: S-088210-84-080619-JP-SW-23-3 Matrix: SOIL

RL Qual Units DF Date Analyzed Analyses Result **Batch ID**

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 8/13/2019 2:51:42 PM 46757 mg/Kg

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

Qualifiers:

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

- Analyte detected in the associated Method Blank
- \mathbf{E} Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Lab Order: **1908500**

Hall Environmental Analysis Laboratory, Inc.

Date

Date Reported: 8/14/2019

CLIENT: GHD Midland Lab Order: 1908500

Project: Galaxy to Hearns

Lab ID: 1908500-006 **Collection Date:** 8/6/2019 1:45:00 PM

Client Sample ID: S-088210-84-080619-JP-SW-24-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 540 60 mg/Kg 20 8/13/2019 3:53:45 PM 46757

Lab ID: 1908500-007 **Collection Date:** 8/6/2019 2:25:00 PM

Client Sample ID: S-088210-84-080619-JP-SW-25-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 61 mg/Kg 20 8/13/2019 4:06:09 PM 46757

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
- D 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908500 14-Aug-19**

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46719 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46719 RunNo: 62068

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

Chloride ND 1.5

Sample ID: LCS-46719 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46719 RunNo: 62068

Prep Date: 8/12/2019 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-46757 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46757 RunNo: 62096

Prep Date: 8/13/2019 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-46757 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46757 RunNo: 62096

Prep Date: 8/13/2019 Analysis Date: 8/13/2019 SeqNo: 2108092 Units: mg/Kg

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

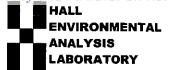
Chloride 15 1.5 15.00 0 97.0 90 110

Qualifiers:

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

C	ient Name:	GHD MIDL	AND	Work	Order Numbe	er: 1906	3500			RcptNo	: 1
	ceived By:	Danie Leah Bac	-		9 8:30:00 AM 9 10:25:32 AI			Lash	R.		
Re	viewed By:	LB		8/9/1	9			Law) i uec	.	
<u>Ch</u>	ain of Cus	stody									
1.	ls Chain of C	ustody comp	lete?			Yes	V	No		Not Present	
2.	How was the	sample deliv	ered?			Cour	ier				
<u>Lo</u>	og In										
3.	Was an atten	npt made to o	ool the samp	les?		Yes	\checkmark	No		NA 🗆	
4. 1	Nere all sam	ples received	at a tempera	ture of >0° C to	o 6.0°C	Yes	✓	No		na 🗆	
5.	Sample(s) in	proper conta	iner(s)?			Yes	V	No			
6. 5	Sufficient san	nple volume f	or indicated to	est(s)?		Yes	Y	No			
7. 4	Are samples ((except VOA	and ONG) pr	operly preserve	d?	Yes	✓	No			
8. \	Vas preserva	ative added to	bottles?			Yes		No	✓	NA \square	
9. v	/OA vials hav	ve zero heads	space?			Yes		No		No VOA Vials 🗹	
10.	Nere any sar	mple containe	ers received b	roken?		Yes		No	Y	# of preserved	
		ork match bot ancies on cha)		Yes	✓	No		bottles checked for pH:	312 unless noted)
12.4	re matrices	correctly iden	tified on Chai	n of Custody?		Yes	V	No		Adjusted?	
13.1	s it clear wha	it analyses we	ere requested	?		Yes	Y	No			_
		ing times able ustomer for a				Yes	✓	No		Checked by:	PAD 8/9/14
Spe	cial Handi	ling (if app	olicable)								
15.	Was client no	otified of all di	screpancies	with this order?		Yes		No		NA 🗹	
	Person	Notified:			Date [**********		
	By Who	om:			Via:	□ еМа	uil 🗌 F	Phone 🗌	Fax	☐ In Person	
	Regard	- 6								-	
	Client I	nstructions:									
16.	Additional re	marks:									
17.	Cooler Infor	10 m M 1 m 10 m 10 m 10 m 10 m 10 m 10 m	\$								
	Cooler No		Condition	Seal Intact	Seal No	Seal Da	ite	Signed E	3у 🔻		
	2	4.2 5.5	Good	Yes		. e-10000 e-1000 e-100 e-100 e-100 e-100			~ menumana.		
	Carrie	0.0	Good	Yes	enterena a a sa secreta a acuada da a a			**************************************	(468 67 60 . m m /o. /		

Turn-Around Time: Chain-of-Custody Record 72 hc HALL ENVIRONMENTAL Client: GHD PRush 3 day □ Standard ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: 2135 S Loop 250 W Galaxy to Hearns 4901 Hawkins NE - Albuquerque, NM 87109 Project #: Midland Tx 79703 Tel. 505-345-3975 Fax 505-345-4107 088210-84 **Analysis Request** Phone #: 432 686 0086 email or Fax#: james, Ornelas@ghd. Com SO Project Manager: TPH:8015D(GRO / DRO / MRO) Coliform (Present/Absent) BTEX / MTBE / TMB's (8021) QA/QC Package: 8270SIMS James ornelas □ Standard □ Level 4 (Full Validation) NO_2 , 8081 Pesticides/8082 Sampler: J.shua Piga On Ice: Wes D No EDB (Method 504.1) Accreditation:

Az Compliance chloride 8270 (Semi-VOA) PAHs by 8310 or □ NELAC □ Other Cl, F, Br, NO₃, RCRA 8 Metals # of Coolers: 72 ☐ EDD (Type) 8260 (VOA) Cooler Temp(including CF):4/2-0/54/2/5/01/5/58 / HEAL No. EPA Total (Container Preservative |Sample Name 1908500 Matrix Type and # Date Time Type 194 Sample 5-088210-84-080C19-JP-5W+9-3 NA 8-6-19 945 - OUI 1005 -000 5-088570-84- 080814-25-2m-50-3 1012 5-088210-84-080619-3P-5w-21-3 -OOR 1020 5-088210-84-080619-57-52-3 -004 5-088210-24-080619-JP-5W-23-3 1035 -605 1345 5-088210-84-080619-5P-5W-24-3 -006 1425 5-088210-84-080619-39-5W-25-3 <u>-007</u>

Date: Relinquished by:

1425 8-6-19

Date: Time: Relinquished by:

Received by Vi

Date , Time

Remarks:

Date Time



August 15, 2019

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

FAX:

RE: Galaxy to Hearns OrderNo.: 1908716

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: **1908716**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/15/2019

	GHD Midland Galaxy to Hearns			L	ab C	rder:	19087	716	
			Ya 11 a a42	on Doto	. 0/0	V2010 2	.00.00 DN	·	
Lab ID:	1908716-001 S-088210-84-080919-JP-SW-26-3	·	Collection Date: 8/9/2019 2:00:00 PM Matrix: SOIL						
_		Dr	0 1					ъ.	
Analyses	Result	KL KL	Quai	Units	DF	Date A	nalyzed	Bai	tch ID
EPA METHOD 30	D.O: ANIONS						Ana	alyst:	CAS
Chloride	110	60		mg/Kg	20	8/14/20	19 3:30:50	PM	46784
Lab ID:	1908716-002	C	Collection Date: 8/9/2019 2:05:00 PM						
Client Sample ID:	S-088210-84-080919-JP-SW-27-3		Matrix: SOIL						
Analyses	Result	RL	Qual	Units	DF	Date A	nalyzed	Bat	tch ID
EPA METHOD 30	0.0: ANIONS						Ana	alyst:	CAS
Chloride	NE	60		mg/Kg	20	8/14/20	19 3:43:14	-	
Lab ID:	1908716-003	C	Collecti	on Date	: 8/9	0/2019 2:	:15:00 PM	I	
Client Sample ID:	S-088210-84-080919-JP-SW-28-3			Matrix	: SC	OIL			
Analyses	Result	RL	Qual	Units	DF	Date A	nalyzed	Bat	tch ID
EPA METHOD 30	D.O: ANIONS						An	alyst:	CAS
Chloride	460	60		mg/Kg	20	8/14/20	19 3:55:39	PM	46784
Lab ID:	1908716-004	C	Collection Date: 8/9/2019 3:00:00 PM						
Client Sample ID:	S-088210-84-080919-JP-SW-29-3		Matrix: SOIL						
Analyses	Result	RL	Qual	Units	DF	Date A	nalyzed	Bat	tch ID
EPA METHOD 30	0.0: ANIONS						Ana	alyst:	CAS
Chloride	NE	60		mg/Kg	20	8/14/20	19 7:01:50	-	
Lab ID:	1908716-005	C	Collecti	on Date	: 8/9	9/2019 9:	:05:00 AM	1	
Client Sample ID:	S-088210-84-080919-JP-SW-156-3		Matrix: SOIL						
Analyses	Result	RL	Qual	Units	DF	Date A	nalyzed	Bat	tch ID
EPA METHOD 30	D.0: ANIONS						An	alyst:	CAS
Chloride	NE	60		mg/Kg	20	8/14/20	19 7:14:14	PM	46784

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908716**

15-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46784 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46784 RunNo: 62158

Prep Date: 8/14/2019 Analysis Date: 8/14/2019 SeqNo: 2109704 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46784 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46784 RunNo: 62158

Prep Date: 8/14/2019 Analysis Date: 8/14/2019 SeqNo: 2109705 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.1 90 110

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Website: www.hallenvironmental.com

Sample Log-In Check List TEL: 505-345-3975 FAX: 505-345-4107

Client Name: GHD MIDLAND	ent Name: GHD MIDLAND Work Order Numb			RcptNo: 1				
Received By: Erin Melendrez	8/13/2019 09:38	5AH	una	7				
Completed By: Leah Baca	·		Lach Baca					
Reviewed By: ENH	8/13/19		Last James	•				
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 same	nples?	Yes 🗹	No 🗌	na 🗆				
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗆				
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆					
6. Sufficient sample volume for indicated	test(s)?	Yes 🗹	No 🗆					
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌					
8. Was preservative added to bottles?		Yes	No 🗹	NA \square				
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	1			
10. Were any sample containers received	I broken?	Yes 🗆	No 🗹	# of preserved	/			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custo	dy)	Yes 🗸	No 🗆		>12 unless noted)			
12. Are matrices correctly identified on Ch	Yes 🗹	No □	Adjusted?					
13. Is it clear what analyses were request	Yes 🗹	No 🗆	/~	11 shah				
 Were all holding times able to be met' (If no, notify customer for authorization 		Yes 🗹	No 🗆	Checked b/r:	16011314			
Special Handling (if applicable)				/				
15. Was client notified of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹				
Person Notified: By Whom: Regarding: Client Instructions:	Date Control of the		hone Fax	In Person				
16. Additional remarks:								
17. Cooler Information Cooler No. Temp °C Condition 1 3.2 Good	n Seal Intact Seal No Yes	Seal Date	Signed By					

Chain-of-Custody Record	Turn-Around Time:	MALL ENVIRONMENTAL							
Client: G-HD	Standard PRush 3 day	HALL ENVIRONMENTAL ANALYSIS LABORATORY							
	Project Name:	www.hallenvironmental.com							
Mailing Address: 2135 5 Loop 250 w Mid	land Galaxy to Hearns	4901 Hawkins NE - Albuquerque, NM 87109							
Tx 79703	Project #:	Tel. 505-345-3975 Fax 505-345-4107							
Phone #: 432 686 0086	088210-84	Analysis Request							
email or Fax#: james, ornelas Q glid, con	Project Manager:	SO ₄ (SO							
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validate	Towns and a	/ DRO / MRO / DRO / MRO 3082 PCB's 4.1) R270SIMS NO ₂ , PO ₄ , SC NO ₂ , PO ₄ , SC							
Accreditation: Az Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance Discrete Compliance	Sampler: Joshua Riga On Ice: Yes No.	E / TMB' E / TMB' SS/8082 504.1) OA) OA) OA)							
□ EDD (Type)	# of Coolers: \\ Cooler Temp(including CF): \(\frac{3}{3} \) - \(\frac{1}{3} \) \(\frac{1}{3} \)	MTBE 15D(GF esticide lethod (
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)							
8-9-19 1400 5 5-08821084-080919-JP-	Los Sanda								
1 1405 6-088210-84-080919-39-5									
1415 5-088210-84-089919-77									
5-088210-84-080919-58-54									
905 5-088210-84-080019-58-56		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
Date: Time: Relinquished by:	Received by // Via: Date Time	Remarks:							
812-19 0200 July C	Sh 8/12/19 0930								
Date: Time: Relinquished by:	Received by: Via: Our ier Date Time Q	\$							



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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Lab Order: **1908846**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/16/2019

	GHD Midland Galaxy to Hearns				L	ab C	rder:	190884	5
Lab ID:	1908846-001		C	ollecti	on Date	: 8/1	2/2019 9:55:	00 AM	
Client Sample ID:	S-088210-84-081219-J	P-SW-28b-3	Matrix: SOIL						
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: CAS						st: CAS			
Chloride		480	60		mg/Kg	20	8/15/2019 6:	18:54 PI	И 46826
Lab ID:	1908846-002		Collection Date: 8/12/2019 10:40:00 AM						
Client Sample ID:	ple ID: S-088210-84-081219-JP-SW-29b-3 Matrix: SOIL				OIL				
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300.0: ANIONS								Analy	st: CAS
Chloride		ND	60		mg/Kg	20	8/15/2019 6:	31:19 PI	И 46826
Lab ID:	1908846-003		Collection Date: 8/13/2019 11:15:00 AM						
Client Sample ID:	S-088210-84-081319-J	P-SW-30-3	Matrix: SOIL						
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300.0: ANIONS								Analy	st: CAS
Chloride		100	60		mg/Kg	20	8/15/2019 6:	43:43 PI	И 46826
Lab ID:	1908846-004		Collection Date: 8/13/2019 10:55:00 AM						
Client Sample ID:	S-088210-84-081319-J	P-SW-31-3	Matrix: SOIL						
Analyses		Result	RL	Qual	Units	DF	Date Analy	zed	Batch ID
EPA METHOD 300.0: ANIONS								Analy	st: CAS

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

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60

Qualifiers:

Chloride

- * Value exceeds Maximum Contaminant Level.
- 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

mg/Kg

20 8/15/2019 6:56:07 PM 46826

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908846**

16-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46826 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46826 RunNo: 62163

Prep Date: 8/15/2019 Analysis Date: 8/15/2019 SeqNo: 2111412 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46826 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46826 RunNo: 62163

Prep Date: 8/15/2019 Analysis Date: 8/15/2019 SeqNo: 2111413 Units: mg/Kg

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

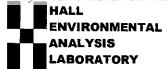
Chloride 14 1.5 15.00 0 93.6 90 110

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 Quantitative 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Cli	ent Name:	GHD MIDL	AND	Work	Order Num	iber: 19088	46		RcptNo	: 1
Cor	mpleted By:	anie Erin Melei ENM	-		19 8:30:00 19 9:21:42		U	MA	, 5	
1. !	ain of Cust Is Chain of Cu How was the s	stody compl				Yes ©		lo 🗆	Not Present □	
	<i>g In</i> Nas an attemp	ot made to c	ool the sampl	es?		Yes 🖢	2 N	lo 🗆	NA 🗆	
4. v	Vere all sampl	les received	at a temperat	ure of >0°C t	o 6.0°C	Yes 🖪	P N	lo 🗆	NA 🗌	
5. §	Sample(s) in p	roper contai	ner(s)?			Yes 🖠	Z N	lo 🗆		
	Sufficient samp are samples (e			• •	d?	Yes ⊌	_	_		
_	Vas preservati			, , , ,		Yes [o 🗸	NA 🗆	·
	/OA vials have Nere any sam		•	oken?		Yes [Yes [] N	o □ lo ☑ .	No VOA Vials # of preserved	
	oes paperwor Note discrepar					Yes ⊻	Ž N	o 🗆	bottles checked for pH:	r >12 unless noted)
12. A	re matrices co	orrectly ident	tified on Chair	of Custody?		Yes 🛂	e N	• 🗆	Adjusted?	
14. v	s it clear what Vere all holdin If no, notify cu	g times able	to be met?	,		Yes ⊻ Yes ⊻		_	Checked by:	DAD 8/15/19
Spe	cial Handli	na (if app	licable)							
	Nas client not			vith this order?		Yes [_ N	lo 🗌	NA 🗹	
	Person N By Whor Regardir	Notified:			Date Via:	∷	Phone	Fax	☐ In Person	
16.	Additional rem	narks:								
17.	Cooler Inform	nation Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signe	d By	of a	
	2	4.3	Good	Yes	n and in the coll to be weekilled the water of collection and the coll			MARTINE WATERLAND N. A. A. ET M.		
	3	4.5	Good	Yes			XVA1.00XVII			

Received by

Date:

Time:

5:30

Relinquished by:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

ولمرامدناط Remarks: Add me to lipient for the completed report Joshua Piggeghd. com of 0.9+0.2=1.12, 4.1+0.2=4.30, 4.3+0.2=4.5



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

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

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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1908847

Date Reported: 8/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908847 **Project:** Galaxy to Hearns Lab ID: 1908847-001 Collection Date: 8/14/2019 9:25:00 AM Client Sample ID: S-088210-84-081419-JP-SW-34-4' Matrix: SOIL RL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 100 60 mg/Kg 8/16/2019 2:22:47 AM 46834 20 Lab ID: 1908847-002 **Collection Date:** 8/14/2019 8:37:00 AM Client Sample ID: S-088210-84-081419-JP-SW-32-3' Matrix: SOIL

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: 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

- 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 2

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908847**

19-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46834 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46834 RunNo: 62163

Prep Date: 8/15/2019 Analysis Date: 8/16/2019 SeqNo: 2111451 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46834 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46834 RunNo: 62163

Prep Date: 8/15/2019 Analysis Date: 8/16/2019 SeqNo: 2111452 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.5 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 Quantitative 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: GHD Work Order Number: 1908847 RcptNo: 1 Received By: Daniel M. 8/15/2019 8:30:00 AM uns. Completed By: Erin Melendrez 8/15/2019 9:31:33 AM 8/15/19 Reviewed By: 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 samples? Yes 🗸 No 🗌 NA 🔲 No L 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 5. Sample(s) in proper container(s)? Yes V No _ 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes V No 🗌 No V NA 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials V 9. VOA vials have zero headspace? Yes Yes 🗆 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked Yes V No 🗌 for pH: 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 Checked by: DAD 8/15/19 No 🗌 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By Good 1.1 Yes

Page 1 of 1

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				Project #:						05-345					-345-				
Phone	#:				088310-	84	Γ.		31			Ana	lysis	Req	uest				
email o	r Fax#:			Project Man	ager:		1	0				SO ₄			nt)				
QA/QC Package:  ☐ Standard ☐ Level 4 (Full Validation)			,	Justin	Nixon	TMB's (8021)	O/MR	PCB's		8270SIMS	PO.4,			Coliform (Present/Absent)					
Accred		☐ Az Co	ompliance	Sampler:  On Ice:	Oshua P	rgg Whor		O/DR	/8082		or 8270	NO ₂ ,		8	Presen				
	(Type)			# of Coolers		WH8/15/19	BE/	(GR	ides	od 5	5	S 3,	_	9	LI (I				
	Wosh	1		Cooler Temp	Preservative	(mules (°C	BTEX / MTBE /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by 8310	CI,F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total Colifor				
Date		Matrix	Sample Name	Type and #	Туре	1908891	H _B	F	80			20	82	85.	P			4	
5/14	9:25	Soil	5088210-84-081419			-001						X							
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Date:	Time: (900)	Relinquish	ed by.	Received/by:	Via:	Date Time 8 3		leri	fie	d P	rj. N	lam	e,	nu	mb	3°c er av	Jos T	nar	ray



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

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

#### **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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report** 

Lab Order: **1908146**Date Reported: **8/6/2019** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Lab Order: 1908146

**Project:** Galaxy to Hearns

**Lab ID:** 1908146-001 **Collection Date:** 8/2/2019 9:20:00 AM

Client Sample ID: S-088210-84-080219-JP-5B-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride ND 60 mg/Kg 20 8/5/2019 1:16:12 PM 46583

**Lab ID:** 1908146-002 **Collection Date:** 8/2/2019 10:45:00 AM

Client Sample ID: S-088210-84-080219-JP-1B-3 Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 390 60 mg/Kg 20 8/5/2019 1:28:37 PM 46583

**Lab ID:** 1908146-003 **Collection Date:** 8/2/2019 1:50:00 PM

**Client Sample ID:** S-088210-84-080219-JP-8-3 **Matrix:** SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 420 60 mg/Kg 20 8/5/2019 1:41:02 PM 46583

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

- 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 2

# **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1908146** 

06-Aug-19

Client: GHD Midland
Project: Galaxy to Hearns

Sample ID: MB-46583 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46583 RunNo: 61924

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2100001 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-46583 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46583 RunNo: 61924

Prep Date: 8/5/2019 Analysis Date: 8/5/2019 SeqNo: 2100002 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.6 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: GHD MIDLAND	Work Order Number	er: 1908146		RcptNo:	1
Received By: Erin Melendre:	z 8/3/2019 9:30:00 AM		una	<del>7</del>	
Completed By: Erin Melendre	z 8/5/2019 7:42:26 AM		UNI UNI	<del>7</del>	
Reviewed By: DAD 8/5/	119		, ,		
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	he samples?	Yes 🗹	No 🗆	NA 🗆	
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	s)?	Yes 🗸	No 🗆		
6. Sufficient sample volume for ind	licated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and 0	ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottl	es?	Yes 🗌	No 🗹	NA 🗌	
9. VOA vials have zero headspace	?	Yes 🗌	No 🗆	No VOA Vials 🗹	
10. Were any sample containers re	ceived broken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle la (Note discrepancies on chain of		Yes 🗸	No 🗆	bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified	on Chain of Custody?	Yes 🗸	No 🗀	Adjusted2	
13, Is it clear what analyses were re	equested?	Yes 🗹	No 🗌	/ -	
<ol> <li>Were all holding times able to be (If no, notify customer for author)</li> </ol>		Yes 🗹	No ☐	Checked by:	NM 815/14
Special Handling (if applica	ble)				
15. Was client notified of all discrep	pancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone 🗌 Fax	☐ In Person	
Regarding: Client Instructions:					
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li li	f necessary,	samples st	binitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorie	es. This serves	as notice of this	s possit	oility. A	ny sul	b-contr	acted	data wi	ill be cl	learly n	otate	ed on th	e analyti	cal repo	ort.	198

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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

Dirt Excavation • Environmental • Production Services

SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240

Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

RK LOCATION(NAME) The Galary to	how that the API#-		
(IF APPLICABLE)	COUNTY	STATE	
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osal Site		1.70	
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Dirt	Excavation • Environmental • Product	tion Services
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Dirt Excavation • Environmental • Production Services

## SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



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Dirt Excavation • Environmental		Production	Services
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## SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



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	Dirt Excavation • Environmental • F	Production Services
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Dirt Excavation • Environmental • Production Services

SDR Enterprises, LLC. 6222 S. Bronco Dr.

Hobbs, NM 88240 Office: 575-393-8420



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	James	Kennedy		Date:
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isposal Site				Date:
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Ö.				Manifest Number: 0279

Dirt Excavation • Environmental • Production Services

## SDR Enterprises, LLC. 6222 S. Bronco Dr.

Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

CUSTOMER 209	CUSTOMER		
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Dirt Excavation • Environmental		Production	Services
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## SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



## MANIFEST

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Facility Contact		
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isposal Site		
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7023 1.:	Yardage: 20	
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	MANIFEST Lic. #386707
CUSTOMER & OG CUSTOMER  COUNTY LEQ COUNTY LEQ	DATE 8-16-19 _STATE
Facility Contact	Date:
James Kennedy	Signature
sposal Site	Date:
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Dirt Excavation • Environmental • Production Services

## SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



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Dirt Excavation	Environmental	Production	Services

SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



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isposal Site	Date:
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% CD: 0%	Driver's Signature  Manifest Number: 0362

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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	Lic. #386707
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ORK LOCATION (NAME) The Galaxy to hearns Plat live API#	
ITY (IF APPLICABLE)COUNTY LCA	STATE NM
acility Contact	
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	SOR ENVIRONMENTAL Production	Services  MANIFEST  Lic. #386707
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acility Contact		
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132) 484-9146		Date:	Signature
Disposal Site			•
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Driver's Signature

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Sandare Forting		Date:  Signature  Yardage: 20
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	cavation • Environmental • Production Se	ervices  MANIFEST  Lic. #386707
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Facility Contact		
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736 101 1116		Signature
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Dirt Excavation • Environmental • Production Ser	vices
SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	MANIFEST Lic. #386707
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Facility Contact	
James Kennedy 432-484-9146	Date: Signature
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	Lic. #386707
USTOMER ( )	DATE 7-27-19  [at Line API# STATE UM
Facility Contact	Date:
James Kennedy	Signature
432 - 484 - 9146 Disposal Site	

Dirt Excavation • Environmental •	Production	Services
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## MANIFEST

ADDRESS The Grahayy to Hour	customer	TE 7-27-19
WORK LOCATION(NAME)	API#S	TATE
CITY (IF APPLICABLE)	COUNTYS	
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(132)484-9146		Signature
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Hobbs, NM 88240 Office: 575-393-8420



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Facility Contact  James Kenedy 432-484-9196	Date: Signature
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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



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SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

customer £09		_ CUSTOMER	DATE 8/15/19
ADDRESS			DAIE DI 17/1
WORK LOCATION(NAME) The balayy J-le	COUNTY	API#	STATE
Facility Contact			Date:
JAMES Kindy			Signature
Disposal Site			Date:    Marting   Signature
Sinday		75	Truck #:

## SDR Enterprises, LLC.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



Lic. #386707

MANIFEST

CUSTOMER EOG

ADDRESS DATE 8-15-19

WORK LOCATION(NAME) The Galaxy to hear us Flat I we work (IF APPWICABLE) COUNTY Lea STATE NM

Facility Contact

Date:

Disposal Site

Date:

Signature

Yardage: 20

Truck # 03 9

Truck # 03 9

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Manifest Number: 0574

Page 186 of 198

SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

Lic. #386707

CUSTOMER FOG	CUSTOMER_	DATE 8-15-19	
ADDRESS The Galaxy to HUNG +	API#		*
WORK LOCATION(NAME)	COUNTY PA	stateNM	
Facility Contact			•
Jumps kemody		Date:	8
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Page 187 of 190

SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

CUSTOMER EOG		_CUSTOMER		3.
ADDRESS The Galaxy to Hensflet	lin		DATE	5-19
WORK LOCATION(NAME)	COUNTY	API#	stateN	<i>M</i>
CITY (IF APPLICABLE) Facility Contact				
Simo klmody			Date:	
432) (184) - 9146				Signature
Disposal Site			Date:	
Sindary	Y	2/	Yardage: 73	Signature
	- 1	<u> </u>	Manifest Nu	Driver's Signature mber: 0801

Dirt Excavation • Environmental • Fro	duction services
SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420	Lic. #386707
customer £0 G custom	ER
WORK LOCATION (NAME) The Galayy to hearns that API	
	SIAIL
Facility Contact	Date:
James Kennedy	Signature
	Gigitatore
Disposal Site	Pote
Sun Dance	Date:  Signature  Yardage: 20  Truck #: 039  Driver's Signature
	Manifest Number: 0287

### SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



# MANIFEST

CUSTOMER 7 <i>6</i> 9		_ CUSTOMER_	DATE 8/15//	'g
NORK LOCATION (NAME) The Galaxy	phoane flot lin			
CITY (IF APPLICABLE)	COUNTY	Lea	STATE	
Facility Contact  JAMES Kundy			Date:	6
Disposal Site			Date: 8/15/19	Signature
Surling		M		Signature

Dirt Excavation •	Environmental ·	Production	Services



MANIFEST

CUSTOMER 209	CUSTOMER_	
ADDRESS		DATE 8/16/14
WORK LOCATION(NAME) The Ga	laxy to Lemon Flat line API#	
CITY (IF APPLICABLE)	COUNTYLea	STATESTATE
Facility Contact		
JAMES Ke		Date:
JIT WED AGE	ud	
		Signature
sposal Site		
Stadene		Date: Signature
JUN1/1/1/1/	10	Yardage: 20
88/2023	<b>V</b>	Truck #:
9	(	Driver's Signature
7		Manifest Number: 0368

SDR Enterprises, LLC. 6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

K LOCATION(NAM	ne) The Galaxyto	county LC		TATE NM -
ity Contact				2
	1	V		Date:
	James	Kennedy		
*				Signature
osal Site				
				Date: Signature
	SUN La	we	-W	Yardage: 20
			0	Truck # 039
1			~	Driver's Signature Driver's Signature
				Manifest Number: 0277

Dirt	Everyation	<ul> <li>Environmental</li> </ul>	<ul> <li>Production</li> </ul>	Services



# MANIFEST

CUSTOMER 606	CUSTOMER	× 5
ADDRESS The Galaxy to	Hans Flet live	DATE 8-16-19
WORK LOCATION(NAME)	API #	
CITY (IF APPLICABLE)	COUNTY PG	_STATENM
Facility Confact		
James Ke	nnedy	Date:
1977480	ardin	
- 120 / 10 I	11-10	Signature Signature
Sposal Site		
00.53		Date:
3 Sundance	W	Yardage: Signature
2023	17	Truck #://3
/8/		Priver's Signature
		Manifest Number: 0803

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# MANIFEST

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ORK LOCATION (NAME) The Galaxy to haw, Flo	of Line API#		
TY (IF APPLICABLE)COUNTY_	Lea	_STATE	
acility Contact			
		Date:	•
JANe) Kernly		Signature	
sposal Site		Date:	
Sundanul	\(\alpha\)	Signature Yardage: 20	
	XX	Truck #: 21	
		Manifest Number: 036	

# SDR Enterprises, LLC.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

ADDRESS The Galaxy to Herr; Flat	CUSTOMER_	DATE 8-16-19
WORK LOCATION(NAME)	API #	
CITY (IF APPLICABLE)COUNT	r lea	STATE UM
Jumos Kemedy (132) (184.9146		Date: Signature
sposal Site Sindarce	X76	Date:  Signature  Yardage:  Truck#:  Driver's Signature  Manifest Number: 0802

### SDR Enterprises, LLC. 6222 S. Bronco Dr.

6222 S. Bronco Dr. Hobbs, NM 88240 Office: 575-393-8420



MANIFEST

CUSTOMER EDG	CUSTOME	
ADDRESS		DATE 8-16-19
WORK LOCATION(NAME) The	Salary to hearns Flat lingapi	#
CITY (IF APPLICABLE)	county_Lea	
Facility Contact		
Jan	nes kennedy	Date:
		Signature
sposal Site		
3 1:30:2:	iun Dance	Date:  Yardage: 20 Signature
6/8/2023	X	Truck #: 039 Ruben Homaly Driver's Signature
Ä		Manifest Number: 0276

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Dist	Funnishing	- Carries and and al	Dunding	0
DILL	Excavation	<ul> <li>Environmental</li> </ul>	Production	Services



# MANIFEST

CUSTOMER	CUSTOMER	,
ADDRESS		DATE 8/9/19
WORK LOCATION (NAME) The Galaxy to Le	cans LAX Flat API#_	
CITY (IF APPLICABLE)	COUNTYLeq	STATE MA*
Facility Contact		
JAMes Kundy		Date: Signature
arsposal Site		
5 cm daice		Date:    Signature

District III

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

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

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

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

CONDITIONS

Action 225570

### **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	Condition Date
amaxwe	II None	6/23/2023