# **Dugan Production Corp**

**Remediation Closure Report** 

Billie # 002

30-045-24713

L-35-22N-08W

1850 FSL 790 FWL

Incident ID: nAPP2308855433

#### Introduction

#### **Definitions**

#### Remediation:

The containment, removal, or stabilization of contaminants from soil, significant water courses, and groundwater.

#### **Reclamation:**

Perform backfilling, compacting, and stabilizing to prevent erosion and ponding of water in impacted areas and reclaiming those areas to contain non-waste containing material based on final land use. OR a soil cover approved by federal, state, or tribal agencies on land managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

## **Sensitive receptors**:

As defined by State Trust Land: include groundwater, continuously flowing or significant watercourse, lakebed, sinkhole, playa lake, spring, drinking water source, or wetland; or any regularly occupied structure including school, daycare, church, clinic, or residence; or any threatened, endangered, or sensitive wildlife or plant species habitat; or cave or other critical karst features; or sensitive soils.

#### **Site Description and Background**

Operator:	Dugan Production Corp.
Site Name:	Billie # 002 (03/28/2023) (On-Site & Off-Site)
NM EMNRD OCD	
Incident ID No.	nAPP2308855433
Location:	36.093647° North, 107.658783° West
	Unit Letter L, Section 35, Township 22N, Range 08W
	San Juan County, New Mexico
Property:	Federal
Regulatory:	New Mexico (NM) Energy, Minerals and Natural Resources Department
	(EMNRD) Oil Conservation Division (OCD); Bureau of Land Management
	(BLM)

On March 28, 2023, Dugan personnel discovered a produced water leak at the Billie # 002 well location. The leak was caused by a frozen two-inch ball valve on the wellhead. Approximately 305 bbls of produced water was released which affected approximately 18,295.2 square feet of surface.

Initial response efforts focused included well shut-in, replacing the damaged ball valve, and ensuring no waste caused further damage to the environment, wildlife or the public.

#### **Project Objective**

The project objective was to reduce environmental contaminants to a safe level per the requirements of the NM OCD NMAC 19.15.29 and the BLM NT-3A MUE Rules.

#### Closure Criteria

The Site is subject to regulatory oversight by the NM EMNRD OCD and BLM. Dugan Production Corp referenced 19.15.29 New Mexico Administrative Code (NMAC) and the NT-3A MUE regulations which establishes investigation, abatement action, remediation, and reclamation requirements for oil and gas release sites that are subject to reporting and/or corrective action, during the evaluation and remediation of the Site. The appropriate closure criteria for sites are determined using the citing requirements outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC and Subsection D of 19.2.24 NMAC. Dugan utilized the general site characteristics and information available from NM state agency databases and federal agency geospatial databases to determine the appropriate closure criteria for the Site.

- The New Mexico Office of the State Engineer (NMOSE) tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. A search was conducted for Section 35, Township 22N, Range 08W and no results were found. The search was expanded to include all Sections of Township 22N, and Range 08W, which provided data for six water wells. The depth to water of the closest well, approximately 2.4 miles from Site, is 220 feet and the six well average is 705 feet.
- The New Mexico Office of the State Engineer (NMOSE) provides an interactive mapping program, OSE POD Locations, which maps points of diversion (PODs). The PODs are each assigned POD numbers in the database which contains depth to water information. Utilizing this tool, a water well approximately 2.6 miles from the Site which has a recorded depth to water of 240 feet was located.
- The USGS Water Resources database provides data for groundwater levels for New Mexico using a mapping program which identifies water wells. A water well is located 6.9 miles from the Site, and a depth to water of 711.26 feet as of May of 1986).
- The Site is located within 300 feet of a NM EMNRD OCD defined continuously flowing watercourse or significant watercourse. An Ephemeral / Intermittent watercourse flows through the Site.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church.
- No Springs, or private domestic freshwater wells used by less than five households for domestic or stock watering purposes were identified within 500 feet of the Site.

- No freshwater wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not within 300 feet of a Wetland.
- Based on information identified in the NM Mining and Minerals Divisions Geographic Information System (GIS) Maps and Mine Data database, the Site is not within an area overlying a subsurface mine.
- The Site is not located within an unstable area per Paragraph (6) of Subsection U of 19.15.2.7 NMAC.
- Based on information provided by the Federal Emergency Management Agency (FEMA)
   National Flood Hazard Layer (NFHL) geospatial database, the Site is not within a 100-year floodplain.

Based on available information Dugan cannot adequately estimate the depth to water at the Site. In accordance with NM OCD, data collected from nearby wells must be within ½ mile radius and information must be less than 25 years old. Dugan is in agreement with NM OCD, due to inadequate well data, depth to water cannot be estimated resulting in a Tier I ranking. Applicable closure criteria for soil remaining in place at the Site include:

Tier, I Closure Criteria for Soils Impacted by a Release								
Constituent <sup>1</sup>	Method	Limit						
Chloride	EPA 300.0 or SM4500 C1 B	600 mg/kg						
TPH (GRO+DRO+MRO) <sup>2</sup>	EPA SW-846 Method 8015M	100 mg/kg						
BTEX <sup>3</sup>	EPA SW-846 Method 8021B or 8260B	50 mg/kg						
Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg						

<sup>&</sup>lt;sup>1</sup> - Constituent concentrations are in milligrams per kilogram (mg/kg).

<sup>&</sup>lt;sup>2</sup> - Total Petroleum Hydrocarbons (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Mother Oil/Lube Oil Range Organics (MRO).

<sup>&</sup>lt;sup>3</sup> - Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX).

#### Soil Remediation

On March 28, 2023, Dugan initiated activities to remediate the petroleum hydrocarbon impact resulting from the produced water spill. Initial remediation activities included determining affected surface area, depth, and volume.

The produced water spill affected approximately 18,295.2 square feet of surface. To estimate the volume, five holes were excavated using a shovel. The average depth of wet soil was approximately two inches. Based on the data collected it is estimated 305 bbls of produced water was released.

The collection of soil samples on September 27, 2023, were tested for Chlorides. The lab results from the collected soil samples indicated low concentrations of Chlorides. The amount of Chlorides detected did not exceed the Chloride limit, per Table 1 of Paragraph (2) of Subsection E of 19.15.29.12 NMAC.

On February 23, 2024, one hundred five soil samples were collected to fully delineate the Site. The soil samples were tested for Total Petroleum Hydrocarbons (TPH), Diesel Range Organics (DRO), Gasoline Range Organics (GRO), toluene, ethylbenzene, and total xylenes (BTEX), Benzene, and Chlorides. The soil samples were collected to ensure Tier I criteria for soils impacted by a release standard were met, per Table 1 of Paragraph (2) of Subsection E of 19.15.29.12 NMAC.

**Appendix A: Maps 2 and Map 3** are maps identifying the approximate delineation soil sample locations and depicts the approximate dimensions of the spill area with respect to the well location. Photographic documentation for the remediation is included in **Appendix B**.

# Soil Sampling

Dugan Production Corp. collected the initial soil samples on September 27, 2023, and submitted them to Envirotech in Farmington, NM on September 28, 2023 for analytical testing. On February 23, 2024, the delineation soil samples were collected and submitted to Eurofins located in Albuquerque, NM, for analytical testing on February 24, 2023. All reported data in the analytical report from Envirotech and Eurofins were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted.

The initial soil sampling program includes the collection of three composite soil samples (E309219-01A – E309219-03A) from within the spill perimeter for laboratory analysis. Hand tools were utilized to obtain soil samples from the spill perimeter.

The delineation sampling program includes the collection of one-hundred five composite soil samples (2402C32-001 through 2402C32-105) from within and outside the spill perimeter for laboratory analysis. Hand tools were utilized to obtain soil samples from within and outside the spill perimeter. Regulatory correspondence is provided in **Appendix C: Figure 1**.

## Sampling

On September 27, 2023, the initial sampling was performed at the Site. The NM OCD was notified of the collection of samples which no representative was present during collection. Composite samples E309219-01A – E309219-03A were collected from the surface of the spill area.

On February 23, 2024, the delineation sampling was performed at the Site. The NM OCD was notified of the collection of samples which no representative was present during collection. The NM OCD granted a variance for the 200 square foot sample requirements, allowing a 500 square foot sample area due to groundwater being estimated at over 50 feet below ground surface (BGS). Due to the 500 square foot sample area requirement, 37 composite samples were taken of the surface of the spill area with a sampling square footage of 473 square feet per sample area. Composite samples 2402C32-001 through 2402C32-015 were collected from the surface area within the spill perimeter. Composite samples 240C32-016 through 2402C32-037 were collected from the surface outside of the spill perimeter. Composite samples 2402C32: 042, 056, 066, 072, 074, and 086 were collected at a depth of one inch within the spill perimeter. Composite samples 240C32: 043, 057, 067, 075, and 087 were collected at a depth of two inches within of the spill perimeter. Composite samples 240C32: 039, 041, 044, 047, 049, 051, 052, 054, 058, 060, 061, 064, 068, 070, 076, 079, 081, 082, 084,088, 091,092, 094, 096, 099, 100, 102, and 105 were collected at a depth of one inch outside the spill perimeter. Composite samples 240C32: 038, 040, 045, 046, 048, 050, 053, 055, 059, 062, 063, 065, 069, 071, 073, 077, 078, 080, 083, 085, 089, 090, 093, 095, 097, 098, 101, 103, and 104 were collected at a depth of two inches outside of the spill perimeter.

All soil samples were collected and placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals were stored in ice in a cooler. The samples were relinquished to the custody of Envirotech in Farmington, NM, and Eurofins in Albuquerque, NM under proper chain-of-custody procedures.

# **Soil Laboratory Analytical Methods**

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021; TPH GRO/DRO/MRO using EPA SW-846 Method 8015; and chlorides using EPA Method 300.0.

The laboratory analytical results for the initial samples are summarized in **Appendix D: Table 2**. The laboratory data sheets and executed chain-of-custody forms for the initial samples are provided in **Appendix D: Figure B**. The laboratory analytical results for the delineation samples are summarized in **Appendix D: Table 1**. The laboratory data sheets and executed chain-of-custody forms for the final samples are provided in **Appendix D: Figure A**.

#### Soil Data Evaluation

Dugan compared the benzene, BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (2402C32-001 through 2402C32-105) to the applicable NM EMNRD OCD closure criteria. The laboratory analytical results are summarized in (Appendix D: Table 1).

 The laboratory analytical results for the delineation composite soil samples indicate benzene was not detected. The laboratory analytical results for all composite soil samples indicate total Benzene is not present at concentrations greater than NM EMNRD OCD closure criteria of 10 mg/kg.

- The laboratory analytical results for the delineation composite soil samples indicate BTEX was not detected. The laboratory analytical results for all composite soil samples indicate total BTEX is not present at concentrations greater than the NM EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the delineation composite soil samples indicate combined TPH GRO/DRO/MRO concentrations were not detected. The laboratory analytical results for all composite soil samples indicate total TPH GRO/DRO/MRO is not present at concentrations greater than the NM EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for all delineation composite soil samples 2402C32: 011, 012, 050, 051, 065, 075, 076, 077, 088, and 089 indicate chloride was present at concentrations of 99 mg/kg, 64 mg/kg, 100 mg/kg, 100 mg/kg, 140 mg/kg, 93 mg/kg, 380 mg/kg, 320 mg/kg, 240 mg/kg, and 590 mg/kg, respectively, which are less than the NM EMNRD OCD closure criteria of 600 mg/kg.

The reclamation requirement in 19.15.29.13(D)(1) NMAC for chloride is less than 600 mg/kg and uncontaminated soils showing TPH less than 100 mg/kg, total BTEX less than 50 mg/kg, and benzene less than 10 mg/kg in the top four feet. The highest concentration for chloride found was 590 mg/kg, which is below the threshold of 600 mg/kg of the reclamation requirement in 19.15.29.13(D)(1) NMAC. There were 0 mg/kg TPH, BTEX, and benzene organics detected. **Please refer to Appendix D: Table 1** showing sampling results.

#### Reclamation

Dugan has restored the impacted surface area to the condition that existed prior to the release. Restoration of the Site included flushing and raking the soil for contamination removal. Plant life was not disturbed, no re-vegetation was necessary. Chloride concentrations detected were less than 600 mg/kg as analyzed by EPA Method 300.0/9056A. Reclamation photos are included in **Appendix B.** 

#### Findings and Recommendation

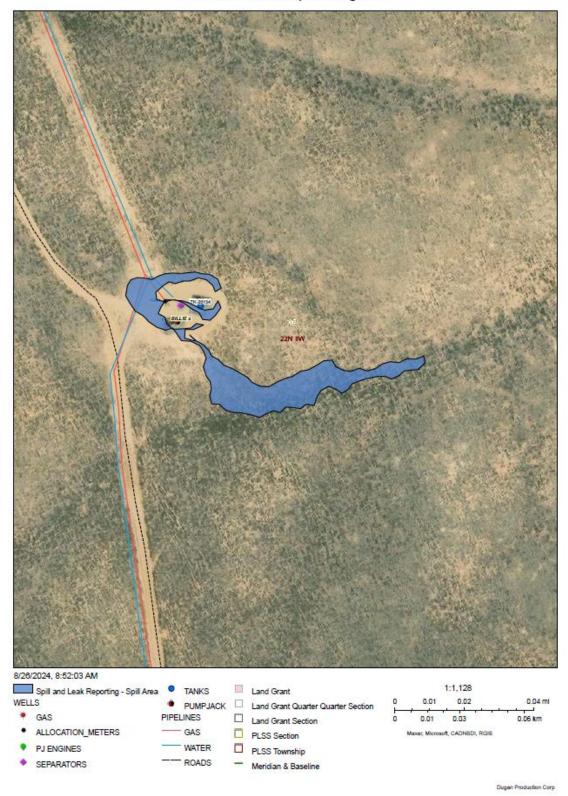
One hundred five composite soil samples were collected from the Site. Based on laboratory analytical results, no benzene, total BTEX, chloride, or TPH GRO/DRO/MRO exceedances were identified in the soils at the Site.

Approximately 19,000 ft<sup>2</sup> of chloride affected soil was flushed with fresh water for remediation. The soil did not require re-placement, contouring to match area topography, and seeding uniformly with the established vegetation of the area.

# **Appendix A: Maps and Site Diagrams**

Map 1: Scaled Site Diagram

Billie #2 Site Spill Diagram



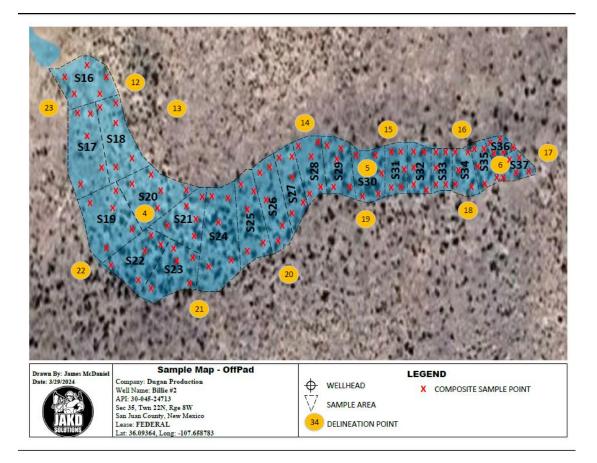
# **Appendix A: Maps and Site Diagrams**

Map 2: Soil Sample Diagram Well-Pad

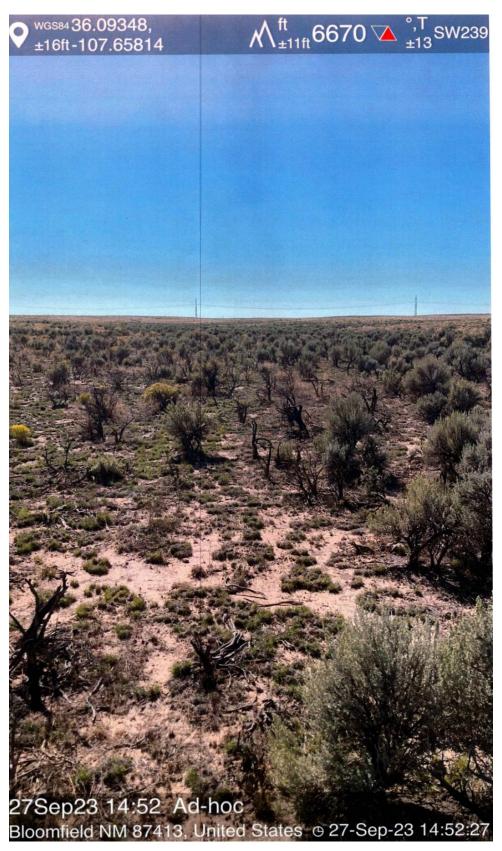


# **Appendix A: Maps and Site Diagrams**

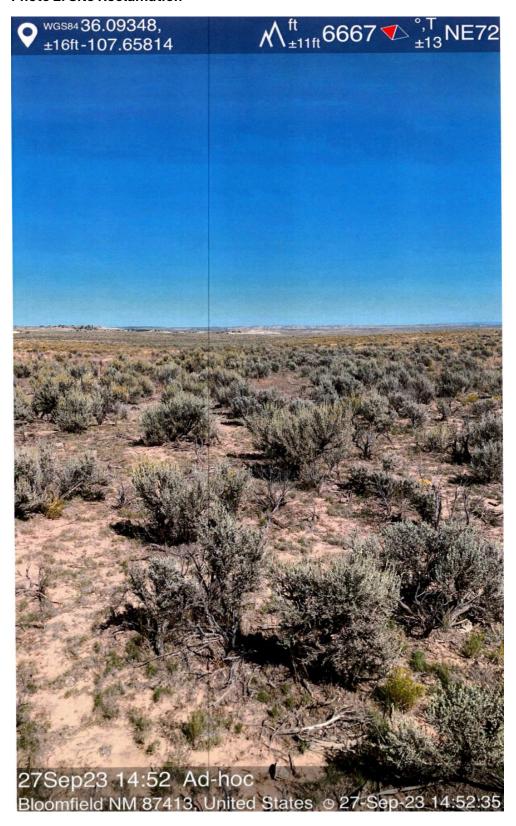
Map 3: Soil Sample Diagram Off-Pad



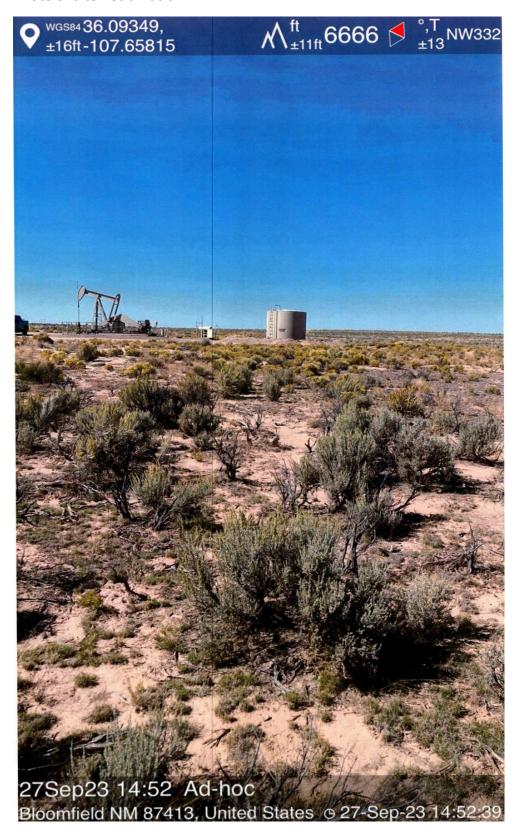
**Photo 1: Site Reclamation** 



**Photo 2: Site Reclamation** 



**Photo 3: Site Reclamation** 



**Photo 3: Site Reclamation** 

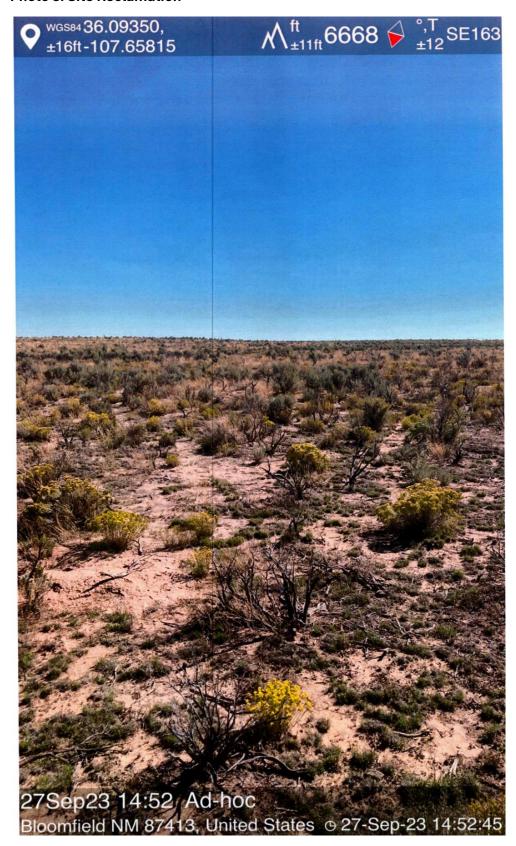


Photo 4: Spill Site

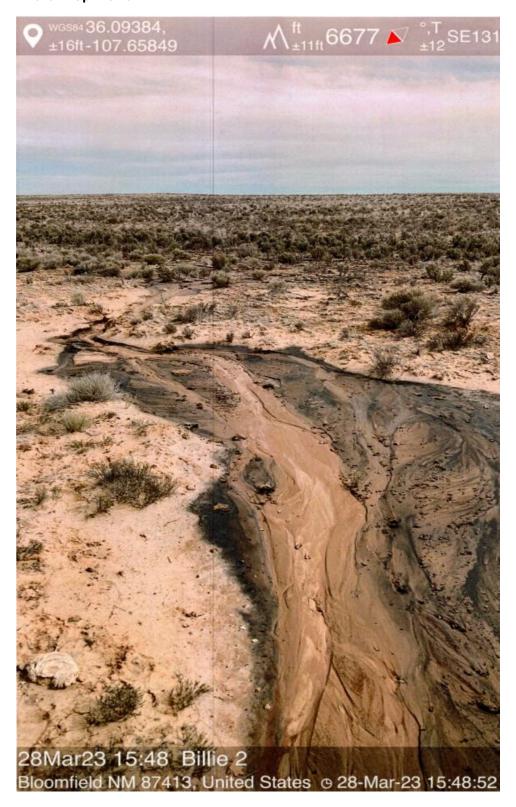


Photo 5: Spill Site



Photo 6: Spill Site

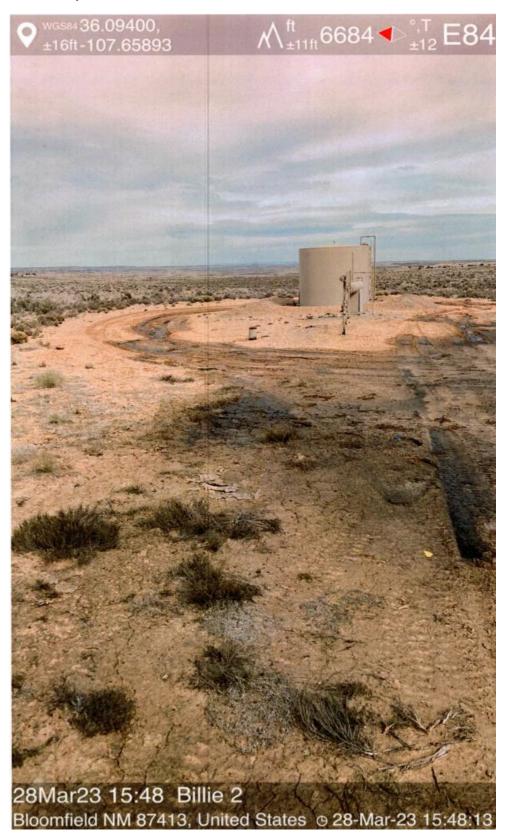
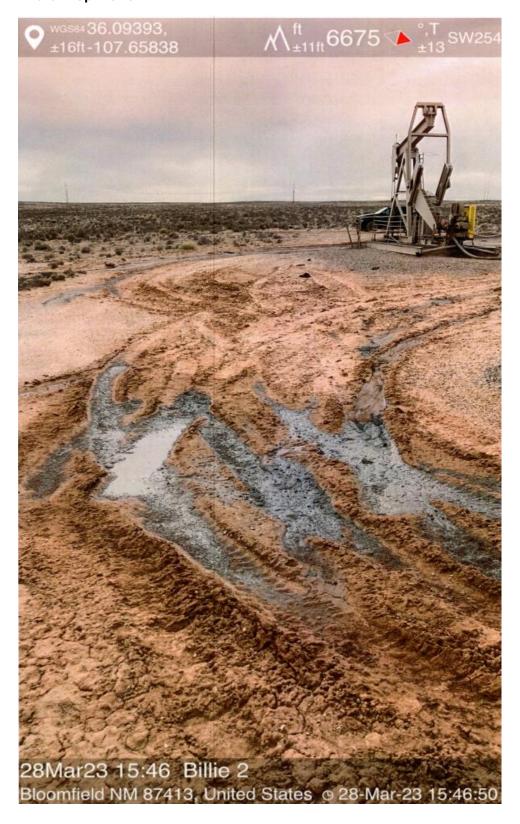


Photo 7: Spill Site



# **Appendix C: Notifications**

#### Figure A: Delineation Soil Sample Notification

Mario Ulibarri; Tyra Fell; "James McDaniel" RE: Billie Com 2 Notice of Sampling Wednesday, February 21, 2024 11:22:00 AM

 $\hbox{Dugan cancelled the initial sampling event for the Billie~\#2 and is planning to gather samples}$ this coming Friday, 2/23/24, starting at 9:00 AM. Dugan will file a C-141N with the NMOCD as the division has directed.

Regulatory Engineer **Dugan Production Corp** 505-486-6207

Sent: Monday, February 12, 2024 3:01 PM

To: 'Velez, Nelson, EMNRD' <Nelson.Velez@state.nm.us>; 'Adeloye, Abiodun A'

Cc: Mario Ulibarri <Mario.Ulibarri@duganproduction.com>; Tyra Feil <Tyra.Feil@duganproduction.com>; James McDaniel <james@jakdsolutions.com>

Subject: RE: Billie Com 2 Notice of Sampling

Dugan has changed the sampling date at this site to 2/16/2024. Starting at 10:00 AM. An updated C-141N has been submitted to reflect the change in sampling dates.

Regulatory Engineer **Dugan Production Corp** 505-486-6207

From: Kevin Smaka

Sent: Thursday, February 8, 2024 3:43 PM

To: 'Velez, Nelson, EMNRD' < Nelson. Velez@state.nm.us >; 'Adeloye, Abiodun A'

Cc: Mario Ulibarri < Mario Ulibarri@duganproduction.com >; Tyra Feil

<Tyra.Feil@duganproduction.com> Subject: Billie Com 2 Notice of Sampling

Dugan is planning to collect soil samples after completing remedial activities at the well site

Sampling will commence this coming Thursday, 2/15/2024 @ 10:00 AM.

Here is the sites information:

#### 30-045-24713 BILLIE #002 [28994]

#### **General Well Information**

[6515] DUGAN PRODUCTION CORP Status: Active Work Type:

L-35-22N-08W 1850 FSL 790 FWL Lat/Long: 36.093647,-107.658783 NAD83 GL Elevation: 6963

Please contact me should you have any questions,

Regulatory Engineer Dugan Production Corp 505-486-6207

**Table 1: Delineation Soil Sampling Results** 

Billie #002										
Lab Results	s Table	Results								
Sample	Map 3:	Depth Sampled	Chlorides		BTEX	Benzene				
#	ID .	(feet BGS)	(mg/kg)	TPH (mg/kg)	(mg/kg)	(mg/kg)				
001	S1	0	ND	ND	ND	ND				
002	S2	0	ND	ND	ND	ND				
003	S3	0	ND	ND	ND	ND				
004	S4	0	ND	ND	ND	ND				
005	S5	0	ND	ND	ND	ND				
006	S6	0	ND	ND	ND	ND				
007	S7	0	ND	ND	ND	ND				
800	S8	0	ND	ND	ND	ND				
009	S9	0	ND	ND	ND	ND				
010	S10	0	ND	ND	ND	ND				
011	S11	0	99	ND	ND	ND				
012	S12	0	64	ND	ND	ND				
013	S13	0	ND	ND	ND	ND				
014	S14	0	ND	ND	ND	ND				
015	S15	0	ND	ND	ND	ND				
016	S16	0	ND	ND	ND	ND				
017	S17	0	ND	ND	ND	ND				
018	S18	0	ND	ND	ND	ND				
019	S19	0	ND	ND	ND	ND				
020	S20	0	ND	ND	ND	ND				
021	S21	0	ND	ND	ND	ND				
022	S22	0	ND	ND	ND	ND				
023	S23	0	ND	ND	ND	ND				
024	S24	0	ND	ND	ND	ND				
025	S25	0	ND	ND	ND	ND				
026	S26	0	ND	ND	ND	ND				
027	S27	0	ND	ND	ND	ND				
028	S28	0	ND	ND	ND	ND				
029	S29	0	ND	ND	ND	ND				
030	S30	0	ND	ND	ND	ND				
031	S31	0	ND ND	ND ND	ND	ND ND				
032	S32	0	ND ND	ND	ND	ND ND				
033	S33 S34	0	ND ND	ND ND	ND ND	ND ND				
034 035		0	ND ND	ND ND	ND ND	ND ND				
035	S35 S36	0	ND	ND ND	ND ND	ND ND				
036	S37	0	ND ND	ND ND	ND ND	ND ND				
037	29	2'	ND ND	NT	NT	NT				
038	29	1'	ND	NT	NT	NT				
040	33	2'	ND	NT	NT	NT				
040	33	1'	ND ND	NT	NT	NT				
041	2	1'	ND ND	NT	NT	NT				
042	2	2'	ND	NT	NT	NT				

044	30	1'	ND	NT	NT	NT
045	30	2'	ND	NT	NT	NT
046	34	2'	ND	NT	NT	NT
047	34	1'	ND	NT	NT	NT
048	32	2'	ND	NT	NT	NT
049	32	1'	ND	NT	NT	NT
050	25	2'	100	NT	NT	NT
051	25	1'	100	NT	NT	NT
052	26	1'	ND	NT	NT	NT
053	26	2'	ND	NT	NT	NT
054	31	1'	ND	NT	NT	NT
055	31	2'	ND	NT	NT	NT
056	3	1'	ND	NT	NT	NT
057	3	2'	ND	NT	NT	NT
058	27	1'	ND	NT	NT	NT
059	27	2'	ND	NT	NT	NT
060	24	1'	ND	NT	NT	NT
061	28	1'	ND	NT	NT	NT
062	21	2'	ND	NT	NT	NT
063	28	2'	ND	NT	NT	NT
064	12	1'	ND	NT	NT	NT
065	12	2'	140	NT	NT	NT
066	5	1'	ND	NT	NT	NT
067	5	2'	ND	NT	NT	NT
068	15	1'	ND	NT	NT	NT
069	15	2'	ND	NT	NT	NT
070	19	1'	ND	NT	NT	NT
071	19	2'	ND	NT	NT	NT
072	6	1'	ND	NT	NT	NT
073	24	2'	ND	NT	NT	NT
074	1	1'	ND	NT	NT	NT
075	1	2'	93	NT	NT	NT
076	10	1'	380	NT	NT	NT
077	10	2'	320	NT	NT	NT
078	7	2'	ND	NT	NT	NT
079	7	1'	ND	NT	NT	NT
080	22	2'	ND	NT	NT	NT
081	22	1'	ND	NT	NT	NT
082	23	1'	ND	NT	NT	NT
083	23	2'	ND	NT	NT	NT
084	8	1'	ND	NT	NT	NT
085	8	2'	ND	NT	NT	NT
086	4	1'	ND	NT	NT	NT
087	4	2'	ND	NT	NT	NT
088	11	1'	240	NT	NT	NT
089	11	2'	590	NT	NT	NT
090	9	2'	ND	NT	NT	NT
091	9	1'	ND	NT	NT	NT
092	13	1'	ND	NT	NT	NT
093	13	2'	ND	NT	NT	NT
000	10		110	1 111	1 11	141

094	20	1'	ND	NT	NT	NT
095	20	2'	ND	NT	NT	NT
096	21	1'	ND	NT	NT	NT
097	6	2'	ND	NT	NT	NT
098	14	2'	ND	NT	NT	NT
099	14	1'	ND	NT	NT	NT
100	17	1'	ND	NT	NT	NT
101	17	2'	ND	NT	NT	NT
102	18	1'	ND	NT	NT	NT
103	18	2'	ND	NT	NT	NT
104	16	2'	ND	NT	NT	NT
105	16	1'	ND	NT	NT	NT
Notes:						
	1. BGS r	neans below grade				
	surface					
	2. TPH n	neans total petroleur	_			
	3. BTEX	means Benzene, Tolı	and Xylene			
	4. ND m	eans not detected				
	5. NT me	eans not tested		_		

#### Figure A: Delineation Soil Sample Laboratory Report



Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 20, 2024 James McDaniel JAKD Solutions 3811 Crestridge Dr Farmington, NM 87401 TEL: (505) 860-1666

FAX

RE: Billie 2 OrderNo.: 2402C32

#### Dear James McDaniel:

Eurofins Environment Testing South Central, LLC received 105 sample(s) on 2/24/2024 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

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

Sincerely,

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

andyl

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S1 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:00:00 AM Lab ID: 2402C32-001 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/5/2024 6:11:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/5/2024 6:11:56 PM
Surr: DNOP	101	61.2-134	%Rec	1	3/5/2024 6:11:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2024 3:11:00 AM
Surr: BFB	102	15-244	%Rec	1	2/28/2024 3:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	2/28/2024 3:11:00 AM
Toluene	ND	0.048	mg/Kg	1	2/28/2024 3:11:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2024 3:11:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2024 3:11:00 AM
Surr: 4-Bromofluorobenzene	96.8	39.1-146	%Rec	1	2/28/2024 3:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 6:51:56 PM

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

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** Lab Order 2402C32

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S2 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:02:00 AM Lab ID: 2402C32-002 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/1/2024 11:50:26 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/1/2024 11:50:26 AM
Surr: DNOP	130	61.2-134	%Rec	1	3/1/2024 11:50:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2024 3:33:00 AM
Surr: BFB	102	15-244	%Rec	1	2/28/2024 3:33:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	2/28/2024 3:33:00 AM
Toluene	ND	0.048	mg/Kg	1	2/28/2024 3:33:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2024 3:33:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	2/28/2024 3:33:00 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146	%Rec	1	2/28/2024 3:33:00 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 7:28:58 PM

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

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

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CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S3 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:04:00 AM Lab ID: 2402C32-003 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/29/2024 9:41:22 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/29/2024 9:41:22 PM
Surr: DNOP	124	61.2-134	%Rec	1	2/29/2024 9:41:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/4/2024 11:33:03 PM
Surr: BFB	108	15-244	%Rec	1	3/4/2024 11:33:03 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/4/2024 11:33:03 PM
Toluene	ND	0.050	mg/Kg	1	3/4/2024 11:33:03 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/4/2024 11:33:03 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/4/2024 11:33:03 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	3/4/2024 11:33:03 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 8:06:01 PM

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

- Value exceeds Maximum Contan Sample Diluted Due to Matrix

- PQL S
- Sample Dutted Due to Shath X.
  Holding times for perparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL
  - Page 3 of 118 Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Hall Environmental Analysis Laboratory, Inc. Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S4 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:06:00 AM Lab ID: 2402C32-004 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/29/2024 10:04:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/29/2024 10:04:49 PM
Surr: DNOP	121	61.2-134	%Rec	1	2/29/2024 10:04:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/4/2024 11:56:45 PM
Surr: BFB	104	15-244	%Rec	1	3/4/2024 11:56:45 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/4/2024 11:56:45 PM
Toluene	ND	0.049	mg/Kg	1	3/4/2024 11:56:45 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/4/2024 11:56:45 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/4/2024 11:56:45 PM
Surr: 4-Bromofluorobenzene	98.1	39.1-146	%Rec	1	3/4/2024 11:56:45 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 8:43:04 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 Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estin
- Above Quantitation Range/Estimated Value
  Analyte detected below quantitation limits
  Sample pH Not In Range
  Reporting Limit

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S5 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:07:00 AM

Lab ID: 2402C32-005 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/29/2024 10:16:35 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/29/2024 10:16:35 PM
Surr: DNOP	116	61.2-134	%Rec	1	2/29/2024 10:16:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/5/2024 12:20:23 AM
Surr: BFB	105	15-244	%Rec	1	3/5/2024 12:20:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/5/2024 12:20:23 AM
Toluene	ND	0.050	mg/Kg	1	3/5/2024 12:20:23 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/5/2024 12:20:23 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/5/2024 12:20:23 AM
Surr: 4-Bromofluorobenzene	100	39.1-146	%Rec	1	3/5/2024 12:20:23 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 8:55:25 PM

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-006 Matrix: SOIL Collection Date: 2/23/2024 9:10:00 AM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: S6 @0-6'

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/29/2024 10:28:15 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/29/2024 10:28:15 PM
Surr: DNOP	126	61.2-134	%Rec	1	2/29/2024 10:28:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/5/2024 12:44:01 AM
Surr: BFB	106	15-244	%Rec	1	3/5/2024 12:44:01 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/5/2024 12:44:01 AM
Toluene	ND	0.050	mg/Kg	1	3/5/2024 12:44:01 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/5/2024 12:44:01 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/5/2024 12:44:01 AM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	3/5/2024 12:44:01 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 9:07:45 PM

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

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

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**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S7 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:11:00 AM

Lab ID: 2402C32-007 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/29/2024 10:40:01 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/29/2024 10:40:01 PM
Surr: DNOP	126	61.2-134	%Rec	1	2/29/2024 10:40:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/5/2024 1:07:39 AM
Surr: BFB	104	15-244	%Rec	1	3/5/2024 1:07:39 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/5/2024 1:07:39 AM
Toluene	ND	0.050	mg/Kg	1	3/5/2024 1:07:39 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/5/2024 1:07:39 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/5/2024 1:07:39 AM
Surr: 4-Bromofluorobenzene	97.8	39.1-146	%Rec	1	3/5/2024 1:07:39 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 9:20:06 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 Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

- Analyte detected in the associated Nethod a Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S8 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:13:00 AM Lab ID: 2402C32-008 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	lics					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/29/2024 10:51:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/29/2024 10:51:44 PM
Surr: DNOP	145	61.2-134	s	%Rec	1	2/29/2024 10:51:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/5/2024 1:31:16 AM
Surr: BFB	106	15-244		%Rec	1	3/5/2024 1:31:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/5/2024 1:31:16 AM
Toluene	ND	0.049		mg/Kg	1	3/5/2024 1:31:16 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/5/2024 1:31:16 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/5/2024 1:31:16 AM
Surr: 4-Bromofluorobenzene	101	39.1-146		%Rec	1	3/5/2024 1:31:16 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	2/29/2024 9:32:28 PM

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

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-009

Collection Date: 2/23/2024 9:14:00 AM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: S9 @0-6'

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/29/2024 11:03:26 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/29/2024 11:03:26 PM
Surr: DNOP	134	61.2-134	S	%Rec	1	2/29/2024 11:03:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/5/2024 1:54:52 AM
Surr: BFB	103	15-244		%Rec	1	3/5/2024 1:54:52 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/5/2024 1:54:52 AM
Toluene	ND	0.049		mg/Kg	1	3/5/2024 1:54:52 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/5/2024 1:54:52 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/5/2024 1:54:52 AM
Surr: 4-Bromofluorobenzene	98.1	39.1-146		%Rec	1	3/5/2024 1:54:52 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	2/29/2024 9:44:48 PM

Matrix: SOIL

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

RL

Page 9 of 118 Reporting Limit

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S10 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:15:00 AM 2402C32-010 Received Date: 2/24/2024 7:00:00 AM Lab ID: Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 2/29/2024 11:15:12 PM 2/29/2024 11:15:12 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 Surr: DNOP 132 61.2-134 %Rec 2/29/2024 11:15:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 3/5/2024 2:41:56 AM 3/5/2024 2:41:56 AM Surr: BFB 104 15-244 %Rec **EPA METHOD 8021B: VOLATILES** Analyst: JJP ND 0.025 3/5/2024 2:41:56 AM Benzene mg/Kg 1 Toluene ND 0.049 mg/Kg 3/5/2024 2:41:56 AM Ethylbenzene 3/5/2024 2:41:56 AM ND 0.049 mg/Kg 1 Xylenes, Total ND 0.098 mg/Kg 3/5/2024 2:41:56 AM Surr: 4-Bromofluorobenzene 98.8 39.1-146 %Rec 3/5/2024 2:41:56 AM

ND

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

#### **Oualifiers:**

- Value exceeds Maximum Contar
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND

**EPA METHOD 300.0: ANIONS** 

Chloride

- Practical Quantitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank

mg/Kg 20

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

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Analyst: KCB

2/29/2024 9:57:09 PM

**Analytical Report** Lab Order 2402C32

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S11 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:18:00 AM Lab ID: 2402C32-011 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/29/2024 11:26:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/29/2024 11:26:49 PM
Surr: DNOP	117	61.2-134	%Rec	1	2/29/2024 11:26:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2024 3:05:25 AM
Surr: BFB	103	15-244	%Rec	1	3/5/2024 3:05:25 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	3/5/2024 3:05:25 AM
Toluene	ND	0.049	mg/Kg	1	3/5/2024 3:05:25 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/5/2024 3:05:25 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/5/2024 3:05:25 AM
Surr: 4-Bromofluorobenzene	98.7	39.1-146	%Rec	1	3/5/2024 3:05:25 AM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	99	60	mg/Kg	20	2/29/2024 10:09:30 PM

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

- Value exceeds Maximum Contaminant Level.

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

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Lab ID:

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

2402C32-012

Collection Date: 2/23/2024 9:19:00 AM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: S12 @0-6

Result RL Qual Units Analyses DF Date Analyzed **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH ND 9.8 2/29/2024 2:40:29 PM Diesel Range Organics (DRO) mg/Kg 1 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 2/29/2024 2:40:29 PM Surr: DNOP 2/29/2024 2:40:29 PM 61.2-134 %Rec 106 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: imr Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/1/2024 5:00:00 PM Surr: BFB 98.8 15-244 %Rec 3/1/2024 5:00:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: imr Benzene ND 0.025 mg/Kg 1 3/1/2024 5:00:00 PM Toluene 0.050 mg/Kg 3/1/2024 5:00:00 PM ND Ethylbenzene 0.050 3/1/2024 5:00:00 PM ND mg/Kg 1 ND 0.099 3/1/2024 5:00:00 PM Xylenes, Total mg/Kg Surr: 4-Bromofluorobenzene 3/1/2024 5:00:00 PM 94.0 39.1-146 %Rec **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride mg/Kg 20 2/29/2024 10:21:51 PM

64

60

Matrix: SOIL

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

- Value exceeds Maximum Contac
- Sample Diluted Due to Matrix Holding times for preparation or anal Not Detected at the Reporting Limit ND
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range
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**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S13 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:22:00 AM Lab ID: 2402C32-013 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/29/2024 2:52:40 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/29/2024 2:52:40 PM
Surr: DNOP	104	61.2-134	%Rec	1	2/29/2024 2:52:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/1/2024 6:06:00 PM
Surr: BFB	103	15-244	%Rec	1	3/1/2024 6:06:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/1/2024 6:06:00 PM
Toluene	ND	0.050	mg/Kg	1	3/1/2024 6:06:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/1/2024 6:06:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/1/2024 6:06:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	3/1/2024 6:06:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 10:34:13 PM

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

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

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S14 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:24:00 AM Lab ID: 2402C32-014 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/29/2024 3:04:56 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/29/2024 3:04:56 PM
Surr: DNOP	112	61.2-134	%Rec	1	2/29/2024 3:04:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/1/2024 7:11:00 PM
Surr: BFB	101	15-244	%Rec	1	3/1/2024 7:11:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/1/2024 7:11:00 PM
Toluene	ND	0.047	mg/Kg	1	3/1/2024 7:11:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/1/2024 7:11:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/1/2024 7:11:00 PM
Surr: 4-Bromofluorobenzene	94.6	39.1-146	%Rec	1	3/1/2024 7:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 11:11:15 PM

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

- Value exceeds Maximum Contaminant Level.
  D Sample Diluted Due to Matrix
  H Holding times for preparation or analysis exceeded
  ND Not Detected at the Reporting Limit
  PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- RL Reporting Limit
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**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S15 @0-6'

CLIENT: JAKD Solutions Project: Billie 2

Collection Date: 2/23/2024 9:25:00 AM

Lab ID: 2402C32-015

Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG.	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/29/2024 3:17:04 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/29/2024 3:17:04 PM
Surr: DNOP	109	61.2-134	%Rec	1	2/29/2024 3:17:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2024 7:33:00 PM
Surr: BFB	97.4	15-244	%Rec	1	3/1/2024 7:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/1/2024 7:33:00 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2024 7:33:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2024 7:33:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2024 7:33:00 PM
Surr: 4-Bromofluorobenzene	94.1	39.1-146	%Rec	1	3/1/2024 7:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 11:23:35 PM

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

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S16 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:27:00 AM Lab ID: 2402C32-016 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/29/2024 3:29:34 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/29/2024 3:29:34 PM
Surr: DNOP	134	61.2-134	%Rec	1	2/29/2024 3:29:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/1/2024 7:55:00 PM
Surr: BFB	102	15-244	%Rec	1	3/1/2024 7:55:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/1/2024 7:55:00 PM
Toluene	ND	0.050	mg/Kg	1	3/1/2024 7:55:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/1/2024 7:55:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2024 7:55:00 PM
Surr: 4-Bromofluorobenzene	95.4	39.1-146	%Rec	1	3/1/2024 7:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 11:35:57 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S17 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:29:00 AM Lab ID: 2402C32-017 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	2/29/2024 3:41:39 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/29/2024 3:41:39 PM
Surr: DNOP	135	61.2-134	S	%Rec	1	2/29/2024 3:41:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: imr
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/1/2024 8:17:00 PM
Surr: BFB	107	15-244		%Rec	1	3/1/2024 8:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: imr
Benzene	ND	0.025		mg/Kg	1	3/1/2024 8:17:00 PM
Toluene	ND	0.050		mg/Kg	1	3/1/2024 8:17:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/1/2024 8:17:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/1/2024 8:17:00 PM
Surr: 4-Bromofluorobenzene	96.9	39.1-146		%Rec	1	3/1/2024 8:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	2/29/2024 11:48:18 PM

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

- Value exceeds Maximum Contar
- Value exceets maximum. Sample Diluted Due to Matrix
  Holding times for preparation or analy
  Not Detected at the Reporting Limit
- ND
- Practical Quantative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S18 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:31:00 AM Lab ID: 2402C32-018 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	14	9.5	mg/Kg	1	3/8/2024 9:20:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/8/2024 9:20:32 PM
Surr: DNOP	84.4	61.2-134	%Rec	1	3/8/2024 9:20:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/1/2024 8:39:00 PM
Surr: BFB	102	15-244	%Rec	1	3/1/2024 8:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.023	mg/Kg	1	3/1/2024 8:39:00 PM
Toluene	ND	0.046	mg/Kg	1	3/1/2024 8:39:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	3/1/2024 8:39:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	3/1/2024 8:39:00 PM
Surr: 4-Bromofluorobenzene	95.8	39.1-146	%Rec	1	3/1/2024 8:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 12:00:40 AM

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

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S19 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:32:00 AM Lab ID: 2402C32-019 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH					
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/29/2024 4:06:03 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/29/2024 4:06:03 PM
Surr: DNOP	143	61.2-134	S	%Rec	1	2/29/2024 4:06:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/1/2024 9:01:00 PM
Surr: BFB	105	15-244		%Rec	1	3/1/2024 9:01:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: imr
Benzene	ND	0.023		mg/Kg	1	3/1/2024 9:01:00 PM
Toluene	ND	0.047		mg/Kg	1	3/1/2024 9:01:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/1/2024 9:01:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/1/2024 9:01:00 PM
Surr: 4-Bromofluorobenzene	95.4	39.1-146		%Rec	1	3/1/2024 9:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	ND	60		mg/Kg	20	3/1/2024 12:13:01 AM

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

- 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 Quantitative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit
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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S20 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:34:00 AM Lab ID: 2402C32-020 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/29/2024 4:18:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/29/2024 4:18:09 PM
Surr: DNOP	126	61.2-134	%Rec	1	2/29/2024 4:18:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/1/2024 9:23:00 PM
Surr: BFB	104	15-244	%Rec	1	3/1/2024 9:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.023	mg/Kg	1	3/1/2024 9:23:00 PM
Toluene	ND	0.047	mg/Kg	1	3/1/2024 9:23:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/1/2024 9:23:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	3/1/2024 9:23:00 PM
Surr: 4-Bromofluorobenzene	96.0	39.1-146	%Rec	1	3/1/2024 9:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 12:25:22 AM

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

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

- RL Reporting Limit
- Page 20 of 118

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S21 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:35:00 AM Lab ID: 2402C32-021 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	2/29/2024 4:54:34 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/29/2024 4:54:34 PM
Surr: DNOP	113	61.2-134	%Rec	1	2/29/2024 4:54:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/1/2024 9:45:00 PM
Surr: BFB	103	15-244	%Rec	1	3/1/2024 9:45:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/1/2024 9:45:00 PM
Toluene	ND	0.047	mg/Kg	1	3/1/2024 9:45:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/1/2024 9:45:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/1/2024 9:45:00 PM
Surr: 4-Bromofluorobenzene	98.7	39.1-146	%Rec	1	3/1/2024 9:45:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 4:55:51 PM

#### 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
   NO Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
  E Above Quantitation Range/Estimated Value
  J Analyte detected below quantitation limits
  P Sample pH Not In Range
  RL Reporting Limit

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CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S22 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:37:00 AM Lab ID: 2402C32-022 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JKU				
Diesel Range Organics (DRO)	170	9.5	mg/Kg	1	3/8/2024 9:43:56 PM
Motor Oil Range Organics (MRO)	420	48	mg/Kg	1	3/8/2024 9:43:56 PM
Surr: DNOP	94.1	61.2-134	%Rec	1	3/8/2024 9:43:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2024 10:29:00 PM
Surr: BFB	104	15-244	%Rec	1	3/1/2024 10:29:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/1/2024 10:29:00 PM
Toluene	ND	0.048	mg/Kg	1	3/1/2024 10:29:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2024 10:29:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2024 10:29:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146	%Rec	1	3/1/2024 10:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 5:41:17 PM

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

- Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit H ND
- Practical Quantative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
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**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S23 @0-6

Project: Billie 2 Collection Date: 2/23/2024 9:39:00 AM Lab ID: 2402C32-023 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JKU				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/8/2024 10:07:18 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/8/2024 10:07:18 PM
Surr: DNOP	105	61.2-134	%Rec	1	3/8/2024 10:07:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/1/2024 10:50:00 PM
Surr: BFB	105	15-244	%Rec	1	3/1/2024 10:50:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.023	mg/Kg	1	3/1/2024 10:50:00 PM
Toluene	ND	0.047	mg/Kg	1	3/1/2024 10:50:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/1/2024 10:50:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/1/2024 10:50:00 PM
Surr: 4-Bromofluorobenzene	97.8	39.1-146	%Rec	1	3/1/2024 10:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 6:26:46 PM

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

- Value exceeds Maximum Contaminant Sample Diluted Due to Matrix Holding times for preparation or analy Not Detected at the Reporting Limit
- ND
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S24 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:41:00 AM Lab ID: 2402C32-024 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: <b>JKU</b>				
Diesel Range Organics (DRO)	23	9.8	mg/Kg	1	3/8/2024 10:30:41 PM
Motor Oil Range Organics (MRO)	52	49	mg/Kg	1	3/8/2024 10:30:41 PM
Surr: DNOP	105	61.2-134	%Rec	1	3/8/2024 10:30:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2024 11:12:00 PM
Surr: BFB	103	15-244	%Rec	1	3/1/2024 11:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/1/2024 11:12:00 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2024 11:12:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2024 11:12:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2024 11:12:00 PM
Surr: 4-Bromofluorobenzene	95.7	39.1-146	%Rec	1	3/1/2024 11:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 6:41:55 PM

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

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   Holding times for preparation or analysis exceeded
   NO Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL Reporting Limit
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**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S25 @0-6'

CLIENT: JAKD Solutions Project: Billie 2 Collection Date: 2/23/2024 9:43:00 AM Lab ID: 2402C32-025 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	2/29/2024 5:55:06 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/29/2024 5:55:06 PM
Surr: DNOP	120	61.2-134	%Rec	1	2/29/2024 5:55:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2024 11:34:00 PM
Surr: BFB	101	15-244	%Rec	1	3/1/2024 11:34:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/1/2024 11:34:00 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2024 11:34:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2024 11:34:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/1/2024 11:34:00 PM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	3/1/2024 11:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 7:27:22 PM

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

Qualifiers:

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

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**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

**CLIENT: JAKD Solutions** Client Sample ID: S26 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:45:00 AM Lab ID: 2402C32-026 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JKU				
Diesel Range Organics (DRO)	18	8.8	mg/Kg	1	3/8/2024 10:54:02 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/8/2024 10:54:02 PM
Surr: DNOP	127	61.2-134	%Rec	1	3/8/2024 10:54:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2024 11:56:00 PM
Surr: BFB	104	15-244	%Rec	1	3/1/2024 11:56:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/1/2024 11:56:00 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2024 11:56:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2024 11:56:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/1/2024 11:56:00 PM
Surr: 4-Bromofluorobenzene	97.0	39.1-146	%Rec	1	3/1/2024 11:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 7:42:32 PM

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

- Value exceeds Maximum Contaminant Level.
  D Sample Diluted Due to Matrix
  H Holding times for preparation or analysis exceeded
  ND Not Detected at the Reporting Limit
  PQL Practical Quantative Limit
  S % Recovery outside of standard limits. If unfilleted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
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**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S27 @0-6'

CLIENT: JAKD Solutions Project: Billie 2

Collection Date: 2/23/2024 9:47:00 AM Received Date: 2/24/2024 7:00:00 AM

Lab ID: 2402C32-027 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/29/2024 6:19:16 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/29/2024 6:19:16 PM
Surr: DNOP	122	61.2-134	%Rec	1	2/29/2024 6:19:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2024 12:18:00 AM
Surr: BFB	103	15-244	%Rec	1	3/2/2024 12:18:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.025	mg/Kg	1	3/2/2024 12:18:00 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2024 12:18:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2024 12:18:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2024 12:18:00 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	3/2/2024 12:18:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 7:57:41 PM

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

- Sample Diluted Due to Matrix Holding times for preparation or analy Not Detected at the Reporting Limit ND
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-028

Matrix: SOIL

Collection Date: 2/23/2024 9:48:00 AM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: S28 @0-6'

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/29/2024 6:31:18 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/29/2024 6:31:18 PM
Surr: DNOP	113	61.2-134	%Rec	1	2/29/2024 6:31:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2024 12:40:00 AM
Surr: BFB	99.6	15-244	%Rec	1	3/2/2024 12:40:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/2/2024 12:40:00 AM
Toluene	ND	0.047	mg/Kg	1	3/2/2024 12:40:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2024 12:40:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2024 12:40:00 AM
Surr: 4-Bromofluorobenzene	96.3	39.1-146	%Rec	1	3/2/2024 12:40:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 8:12:50 PM

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

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

- Page 28 of 118 RL Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S29 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:50:00 AM Lab ID: 2402C32-029 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH					
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/29/2024 6:43:20 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/29/2024 6:43:20 PM
Surr: DNOP	135	61.2-134	S	%Rec	1	2/29/2024 6:43:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/2/2024 1:02:00 AM
Surr: BFB	102	15-244		%Rec	1	3/2/2024 1:02:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: imr
Benzene	ND	0.025		mg/Kg	1	3/2/2024 1:02:00 AM
Toluene	ND	0.049		mg/Kg	1	3/2/2024 1:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/2/2024 1:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/2/2024 1:02:00 AM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	3/2/2024 1:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	61		mg/Kg	20	2/29/2024 8:28:00 PM

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

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

- RL Reporting Limit
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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S30 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:52:00 AM Lab ID: 2402C32-030 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/8/2024 11:17:22 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/8/2024 11:17:22 PM
Surr: DNOP	106	61.2-134	%Rec	1	3/8/2024 11:17:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2024 1:24:00 AM
Surr: BFB	102	15-244	%Rec	1	3/2/2024 1:24:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: imr
Benzene	ND	0.024	mg/Kg	1	3/2/2024 1:24:00 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2024 1:24:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2024 1:24:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/2/2024 1:24:00 AM
Surr: 4-Bromofluorobenzene	96.5	39.1-146	%Rec	1	3/2/2024 1:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 8:43:09 PM

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

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

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

- RL
- Page 30 of 118 Reporting Limit

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S31 @0-6' Project: Billie 2 Collection Date: 2/23/2024 9:54:00 AM

Lab ID: 2402C32-031 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/29/2024 7:07:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/29/2024 7:07:10 PM
Surr: DNOP	117	61.2-134	%Rec	1	2/29/2024 7:07:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: imr
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/2/2024 1:46:00 AM
Surr: BFB	103	15-244	%Rec	1	3/2/2024 1:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: imr
Benzene	ND	0.023	mg/Kg	1	3/2/2024 1:46:00 AM
Toluene	ND	0.046	mg/Kg	1	3/2/2024 1:46:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/2/2024 1:46:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	3/2/2024 1:46:00 AM
Surr: 4-Bromofluorobenzene	96.2	39.1-146	%Rec	1	3/2/2024 1:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/29/2024 8:58:18 PM

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

#### Qualifiers:

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

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S32 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:56:00 AM Lab ID: 2402C32-032 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/5/2024 2:58:53 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/5/2024 2:58:53 PM
Surr: DNOP	109	61.2-134	%Rec	1	3/5/2024 2:58:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/29/2024 1:26:48 PM
Surr: BFB	106	15-244	%Rec	1	2/29/2024 1:26:48 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/29/2024 1:26:48 PM
Toluene	ND	0.050	mg/Kg	1	2/29/2024 1:26:48 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/29/2024 1:26:48 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/29/2024 1:26:48 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	2/29/2024 1:26:48 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/5/2024 11:25:19 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S33 @0-6'

CLIENT: JAKD Solutions Project: Billie 2 Collection Date: 2/23/2024 9:58:00 AM Lab ID: 2402C32-033 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JKU				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/5/2024 3:22:57 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/5/2024 3:22:57 PM
Surr: DNOP	97.4	61.2-134	%Rec	1	3/5/2024 3:22:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/29/2024 1:50:37 PM
Surr: BFB	106	15-244	%Rec	1	2/29/2024 1:50:37 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/29/2024 1:50:37 PM
Toluene	ND	0.050	mg/Kg	1	2/29/2024 1:50:37 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/29/2024 1:50:37 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/29/2024 1:50:37 PM
Surr: 4-Bromofluorobenzene	101	39.1-146	%Rec	1	2/29/2024 1:50:37 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/5/2024 11:37:40 PM

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
   Holding times for preparation or analysis exceeded
   No Not Detected at the Reporting Limit
   PQL Practical Quantitative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit

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CLIENT: JAKD Solutions

Analytical Report Lab Order 2402C32

Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S34 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 9:59:00 AM Lab ID: 2402C32-034 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/5/2024 3:47:00 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/5/2024 3:47:00 PM
Surr: DNOP	114	61.2-134	%Rec	1	3/5/2024 3:47:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/29/2024 2:14:25 PM
Surr: BFB	106	15-244	%Rec	1	2/29/2024 2:14:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/29/2024 2:14:25 PM
Toluene	ND	0.050	mg/Kg	1	2/29/2024 2:14:25 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/29/2024 2:14:25 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/29/2024 2:14:25 PM
Surr: 4-Bromofluorobenzene	103	39.1-146	%Rec	1	2/29/2024 2:14:25 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 1:04:07 AM

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

RL

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S35 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 10:01:00 AM Lab ID: 2402C32-035 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JKU				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/5/2024 4:11:05 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/5/2024 4:11:05 PM
Surr: DNOP	113	61.2-134	%Rec	1	3/5/2024 4:11:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/29/2024 2:38:03 PM
Surr: BFB	107	15-244	%Rec	1	2/29/2024 2:38:03 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/29/2024 2:38:03 PM
Toluene	ND	0.049	mg/Kg	1	2/29/2024 2:38:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/29/2024 2:38:03 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/29/2024 2:38:03 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	2/29/2024 2:38:03 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 1:16:28 AM

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

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

- RL Reporting Limit
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Analytical Report

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: S36 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 10:02:00 AM Lab ID: 2402C32-036 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/5/2024 4:35:16 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/5/2024 4:35:16 PM
Surr: DNOP	102	61.2-134	%Rec	1	3/5/2024 4:35:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/29/2024 3:01:46 PM
Surr: BFB	103	15-244	%Rec	1	2/29/2024 3:01:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/29/2024 3:01:46 PM
Toluene	ND	0.050	mg/Kg	1	2/29/2024 3:01:46 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/29/2024 3:01:46 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/29/2024 3:01:46 PM
Surr: 4-Bromofluorobenzene	99.3	39.1-146	%Rec	1	2/29/2024 3:01:46 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 1:28:49 AM

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

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

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**Analytical Report** 

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402C32 Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: S37 @0-6'

Project: Billie 2 Collection Date: 2/23/2024 10:04:00 AM Lab ID: 2402C32-037 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/5/2024 4:59:23 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/5/2024 4:59:23 PM
Surr: DNOP	105	61.2-134	%Rec	1	3/5/2024 4:59:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/29/2024 3:25:35 PM
Surr: BFB	108	15-244	%Rec	1	2/29/2024 3:25:35 PM
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/29/2024 3:25:35 PM
Toluene	ND	0.048	mg/Kg	1	2/29/2024 3:25:35 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/29/2024 3:25:35 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/29/2024 3:25:35 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	1	2/29/2024 3:25:35 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 1:41:11 AM

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 Quantitative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP29 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:13:00 AM Lab ID: 2402C32-038 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 12:29:44 AM

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

- ND PQL
- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holdling times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- RL
  - Page 38 of 118 Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP29 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:09:00 AM Lab ID: 2402C32-039 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 12:42:05 AM

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

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

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Analytical Report

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Client Sample ID: DP33 @2' Collection Date: 2/23/2024 11:04:00 AM

Lab ID: 2402C32-040 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

RL Qual Units Analyses Result DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: SNS ND Chloride 60 mg/Kg 20 2/28/2024 5:33:14 PM

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

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- RL
  - Page 40 of 118 Reporting Limit

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP33 @1' Project: Billie 2 Collection Date: 2/23/2024 11:01:00 AM

Lab ID: 2402C32-041 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 6:35:00 PM

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

Qualifiers:

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

- RL Reporting Limit

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CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP2 @1'

Project: Billie 2 Collection Date: 2/23/2024 10:50:00 AM Lab ID: 2402C32-042 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: SNS ND 2/28/2024 7:12:04 PM Chloride 59 mg/Kg 20

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

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

- Page 42 of 118 RL Reporting Limit

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP2 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:00:00 AM Lab ID: 2402C32-043 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 7:24:25 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 Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP30 @1'

CLIENT: JAKD Solutions Project: Billie 2 Collection Date: 2/23/2024 10:40:00 AM

Lab ID: 2402C32-044 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF **Date Analyzed EPA METHOD 300.0: ANIONS** Analyst: SNS ND 2/28/2024 7:36:45 PM Chloride 60 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maximum Contaminant Level.
  D Sample Diluted Due to Matrix
  H Holding times for preparation or analysis exceeded
  ND Not Detected at the Reporting Limit
  PQL Practical Quanitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
  Analyte detected below quantitation limits
  Sample pH Not In Range
  Reporting Limit
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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP30 @2' Project: Billie 2 Collection Date: 2/23/2024 10:42:00 AM Lab ID: 2402C32-045 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: SNS ND 60 mg/Kg 20 2/28/2024 7:49:06 PM

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

- PQL S
- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits Sample pH Not In Range
- RL Reporting Limit
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**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP34 @2'

Project: Billie 2 Collection Date: 2/23/2024 10:48:00 AM Lab ID: 2402C32-046 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 8:01:27 PM

#### 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
   NO Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
  E Above Quantitation Range/Estimated Value
  J Analyte detected below quantitation limits
  P Sample pH Not In Range
  RL Reporting Limit

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CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP34 @1'

Project: Billie 2 Collection Date: 2/23/2024 10:45:00 AM Lab ID: 2402C32-047 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride ND 2/28/2024 8:38:29 PM 60 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.

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

- Sample pH Not In Range RL Reporting Limit
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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-048 Matrix: SOIL Client Sample ID: DP32 @2' Collection Date: 2/23/2024 11:10:00 AM

Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 8:50:49 PM

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

Qualifiers:

- Value exceeds Maximum Contam
- ND
- Value exceeds Maximum Contaminant Level.

  Sample Diluted Due to Matrix

  Holding times for preparation or analysis exceeded

  Not Detected at the Reporting Limit

  Practical Quantitive Limit

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

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP32 @1'

Project: Billie 2

Collection Date: 2/23/2024 11:07:00 AM

Lab ID: 2402C32-049

CLIENT: JAKD Solutions

Matrix: SOIL

Received Date: 2/24/2024 7:00:00 AM

RL Qual Units Analyses Result DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 2/28/2024 9:03:11 PM 60 mg/Kg 20

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

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

- RL Reporting Limit
- Page 49 of 118

**Analytical Report** Lab Order 2402C32

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP25 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:57:00 AM Lab ID: 2402C32-050 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	100	60	mg/Kg	20	2/28/2024 9:15:31 PM

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

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

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

- Page 50 of 118 RL Reporting Limit

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP25 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:53:00 AM Lab ID: 2402C32-051 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	100	60	mg/Kg	20	2/28/2024 9:27:52 PM

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

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP26 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:17:00 AM Lab ID: 2402C32-052 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 9:40:13 PM

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

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

- Page 52 of 118 RL Reporting Limit

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP26 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:20:00 AM Lab ID: 2402C32-053 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 9:52:35 PM

#### 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 Quantitative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL Reporting Limit

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CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP31 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:15:00 AM Lab ID: 2402C32-054 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 10:04:56 PM

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

Qualifiers:

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP31 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:20:00 AM Lab ID: 2402C32-055 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 10:17:18 PM

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

- Value exceeds Maximum Contaminant Level.
- ND
- Value execeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantitive Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
  Analyte detected below quantitation limits
  Sample pH Not In Range
  Reporting Limit
- - Page 55 of 118

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Project: Billie 2

Client Sample ID: DP3 @1' Collection Date: 2/23/2024 11:30:00 AM

Lab ID: 2402C32-056 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed Analyst: SNS **EPA METHOD 300.0: ANIONS** ND 2/28/2024 10:29:40 PM Chloride 60 mg/Kg 20

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

Qualifiers:

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

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

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP3 @2'

Project: Billie 2

Collection Date: 2/23/2024 11:35:00 AM

Lab ID: 2402C32-057

CLIENT: JAKD Solutions

Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 11:06:43 PM

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

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit
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**Analytical Report** Lab Order 2402C32

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP27 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:21:00 AM Lab ID: 2402C32-058 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 11:19:04 PM

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

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Hokling times for preparation or analysis exceeded
   No Telected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- Page 58 of 118 RL Reporting Limit

**Analytical Report** Lab Order 2402C32

Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP27 @2' Project: Billie 2 Collection Date: 2/23/2024 11:25:00 AM

Lab ID: 2402C32-059 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 11:31:24 PM

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

- RL Reporting Limit

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**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP24 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:47:00 AM Lab ID: 2402C32-060 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 12:25:34 PM

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

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

- Page 60 of 118 RL Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP28 @1'

Project: Billie 2 Collection Date: 2/23/2024 11:40:00 AM Lab ID: 2402C32-061 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 1:27:18 PM

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

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

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP21 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:45:00 PM Lab ID: 2402C32-062 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 2:20:17 PM

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

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit RL
- Page 62 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP28 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:45:00 AM Lab ID: 2402C32-063 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 2:32:38 PM

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

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

- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit Page 63 of 118

CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP12 @1'

Project: Billie 2 Collection Date: 2/23/2024 1:08:00 PM Lab ID: 2402C32-064 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed Analyst: KCB **EPA METHOD 300.0: ANIONS** Chloride ND 2/29/2024 2:44:59 PM 59 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.

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

- Sample pH Not In Range RL Reporting Limit
- Page 64 of 118

Chloride

**Analytical Report** Lab Order 2402C32

mg/Kg 20

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

2/29/2024 2:57:20 PM

CLIENT: JAKD Solutions Client Sample ID: DP12 @2' Project: Billie 2 Collection Date: 2/23/2024 1:11:00 PM Lab ID: 2402C32-065 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL Result RL Qual Units DF Analyses Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB

140

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

- Value exceeds Maximum Contaminant Level.

- ND PQL
- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantitre Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range
  - Page 65 of 118 Reporting Limit

CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP5 @1'

Project: Billie 2 Collection Date: 2/23/2024 1:00:00 PM Lab ID: 2402C32-066 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB ND 2/29/2024 3:09:41 PM Chloride 60 mg/Kg 20

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

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

- RL Reporting Limit
  - Page 66 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP5 @2'

Project: Billie 2 Collection Date: 2/23/2024 1:03:00 PM Lab ID: 2402C32-067 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 3:46:43 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 Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL Reporting Limit

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**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP15 @1'

CLIENT: JAKD Solutions Project: Billie 2

Collection Date: 2/23/2024 12:55:00 PM

Lab ID: 2402C32-068

Matrix: SOIL

Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 3:59:04 PM

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

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceeded
   NO Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
  E Above Quantitation Range/Estimated Value
  J Analyte detected below quantitation limits
  P Sample pH Not In Range
  RL Reporting Limit

- - Page 68 of 118

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP15 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:57:00 PM Lab ID: 2402C32-069 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 4:11:25 PM

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

Qualifiers:

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

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Analytical Report

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-070 Matrix: SOIL Collection Date: 2/23/2024 12:46:00 PM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: DP19 @1'

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB ND 2/29/2024 4:23:45 PM Chloride 60 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estim
- Analyte detected in the associated Method Blank

- RL
- Above Quantitation Range/Estimated Value
  Analyte detected below quantitation limits
  Sample pH Not In Range
  Reporting Limit Page 70 of 118

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP19 @2'

CLIENT: JAKD Solutions Project: Billie 2

Collection Date: 2/23/2024 12:49:00 PM

Lab ID: 2402C32-071

Matrix: SOIL

Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB ND 2/29/2024 4:36:06 PM Chloride 60 mg/Kg 20

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

Qualifiers:

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

- RL Reporting Limit

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-072 Matrix: SOIL Client Sample ID: DP6 @1'

Collection Date: 2/23/2024 1:10:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 4:48:27 PM

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

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceeded
   NO Not Detected at the Reporting Limit
   PQL Practical Quantitative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit
  - Page 72 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP24 @2'

Project: Billie 2 Collection Date: 2/23/2024 11:50:00 AM Lab ID: 2402C32-073 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 5:00:48 PM

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

- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
- ND
- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- - Page 73 of 118

CLIENT: JAKD Solutions

Lab ID: 2402C32-074

Project: Billie 2

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP1 @1'

Collection Date: 2/23/2024 12:00:00 PM

Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 5:13:09 PM

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit
- - Page 74 of 118

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP1 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:03:00 PM Lab ID: 2402C32-075 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	93	60	mg/Kg	20	2/29/2024 5:25:29 PM

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

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

- RL Reporting Limit
- Page 75 of 118

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP10 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:31:00 PM Lab ID: 2402C32-076 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	380	60	mg/Kg	20	2/29/2024 5:37:50 PM

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

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

- P Sample pH Not In Range RL Reporting Limit
  - Page 76 of 118

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP10 @2' Project: Billie 2 Collection Date: 2/23/2024 12:33:00 PM Lab ID: 2402C32-077 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride 320 60 mg/Kg 20 2/29/2024 6:14:53 PM

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

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

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

RL

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CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP7 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:30:00 PM Lab ID: 2402C32-078 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 6:27:14 PM

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

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

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

- Page 78 of 118 RL Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-079

Client Sample ID: DP7 @1'

Collection Date: 2/23/2024 12:28:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	2/29/2024 6:39:35 PM

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceeded
   NO Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL Reporting Limit
  - Page 79 of 118

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP22 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:35:00 PM 2402C32-080 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM Lab ID:

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 9:51:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Hokling times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

  S % Recovery outside of standard limits. If unfilluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- P Sample pH Not In Range RL Reporting Limit

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Lab ID: 2402C32-081

Analytical Report

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Collection Date: 2/23/2024 12:34:00 PM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: DP22 @1'

RL Qual Units Analyses Result DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 3/1/2024 10:36:27 AM 60 mg/Kg 20

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.

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

- RL Reporting Limit
  - Page 81 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP23 @1'

CLIENT: JAKD Solutions Project: Billie 2 Collection Date: 2/23/2024 12:20:00 PM

Lab ID: 2402C32-082 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 11:21:55 AM

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

- Value exceeds Maximum Contan
- ND
- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantitive Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range Reporting Limit
- - Page 82 of 118

CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP23 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:25:00 PM Lab ID: 2402C32-083 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 60 mg/Kg 20 3/1/2024 11:37:05 AM

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

- Value exceeds Maximum Contaminant Level.

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

- Sample pH Not In Range
  - Page 83 of 118 Reporting Limit

CLIENT: JAKD Solutions

Lab ID: 2402C32-084

Project: Billie 2

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP8 @1'

Collection Date: 2/23/2024 12:07:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 12:22:33 PM

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
- D H ND
- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- Reporting Limit
- Page 84 of 118

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP8 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:10:00 PM Lab ID: 2402C32-085 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 12:37:42 PM

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

Qualifiers:

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

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CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP4 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:40:00 PM Lab ID: 2402C32-086 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB ND Chloride 60 3/1/2024 12:52:51 PM mg/Kg 20

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

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

- - Page 86 of 118 Reporting Limit

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-087

Client Sample ID: DP4 @2'

Collection Date: 2/23/2024 12:45:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 1:08:00 PM

Matrix: SOIL

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

- 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 Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- Sample pH Not In Range
- Page 87 of 118 RL Reporting Limit

CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP11 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:30:00 PM Lab ID: 2402C32-088 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB 3/1/2024 1:23:10 PM Chloride 240 60 mg/Kg 20

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

Qualifiers:

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-089 Matrix: SOIL Collection Date: 2/23/2024 12:35:00 PM Received Date: 2/24/2024 7:00:00 AM

Client Sample ID: DP11 @2'

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	590	60	mg/Kg	20	3/1/2024 1:38:19 PM

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

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

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

- Page 89 of 118 RL Reporting Limit

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP9 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:27:00 PM Lab ID: 2402C32-090 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 1:53:28 PM

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

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

  S % Recovery outside of standard limits. If unfilluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

- RL Reporting Limit
- Page 90 of 118

**Analytical Report** Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP9 @1' Project: Billie 2 Collection Date: 2/23/2024 12:15:00 PM

Lab ID: 2402C32-091 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 2:08:38 PM

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

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

- Sample pH Not In Range Reporting Limit
- Page 91 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-092

Client Sample ID: DP13 @1'

Collection Date: 2/23/2024 12:36:00 PM

Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 2:23:47 PM

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.

- Value exceeds Maxemum Contammant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

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

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Analytical Report Lab Order 2402C32

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP13 @2'

Project: Billie 2 Collection Date: 2/23/2024 12:38:00 PM Lab ID: 2402C32-093 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 2:38:57 PM

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

Qualifiers:

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

RL

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CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP20 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:42:00 PM Lab ID: 2402C32-094 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB 3/1/2024 3:26:39 PM Chloride ND 60 mg/Kg 20

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

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions

Project: Billie 2 Lab ID: 2402C32-095 Matrix: SOIL

Client Sample ID: DP20 @2' Collection Date: 2/23/2024 12:45:00 PM

Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 3:41:48 PM

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

- 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 Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

- Sample pH Not In Range RL Reporting Limit
  - Page 95 of 118

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Client Sample ID: DP21 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:41:00 PM Lab ID: 2402C32-096 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	1 Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 3:56:57 PM

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

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP6 @2'

CLIENT: JAKD Solutions Project: Billie 2 Lab ID: 2402C32-097

Collection Date: 2/23/2024 1:15:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF **Date Analyzed EPA METHOD 300.0: ANIONS** Analyst: KCB ND Chloride 60 mg/Kg 20 3/1/2024 4:14:57 PM

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID:

2402C32-098 Matrix: SOIL Client Sample ID: DP14 @2' Collection Date: 2/23/2024 12:55:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND 60 3/1/2024 4:30:07 PM mg/Kg 20

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

- Value exceeds Maximum Contan
- Sample Diluted Due to Matrix Holding times for preparation or anal Not Detected at the Reporting Limit
- ND
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- - Page 98 of 118

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions

Project: Billie 2 Lab ID: 2402C32-099 Matrix: SOIL Client Sample ID: DP14 @1 Collection Date: 2/23/2024 12:59:00 PM Received Date: 2/24/2024 7:00:00 AM

Result RL Qual Units Analyses DF Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: KCB Chloride ND mg/Kg 20 3/1/2024 4:45:16 PM

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

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

- RL
- Page 99 of 118 Reporting Limit

**Analytical Report** Lab Order 2402C32

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions Client Sample ID: DP17 @1'

Project: Billie 2 Collection Date: 2/23/2024 1:15:00 PM Lab ID: 2402C32-100 Received Date: 2/24/2024 7:00:00 AM Matrix: SOIL

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 5:30:44 PM

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

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

- RL Reporting Limit
  - Page 100 of 118

CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP17 @2'

Project: Billie 2 Collection Date: 2/23/2024 1:20:00 PM Lab ID: 2402C32-101 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 6:46:29 PM

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

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

- RL Reporting Limit
- Page 101 of 118

CLIENT: JAKD Solutions

**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP18 @1'

Project: Billie 2 Collection Date: 2/23/2024 12:59:00 PM Lab ID: 2402C32-102 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

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

**EPA METHOD 300.0: ANIONS** Analyst: KCB ND 3/1/2024 7:31:56 PM Chloride 60 mg/Kg 20

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

- Value exceeds Maximum Contaminant Level.
  Sample Diluted Due to Matrix
  Holding times for preparation or analysis exceeded
  Not Detected at the Reporting Limit
  Practical Quantative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Limit
  - Page 102 of 118

**Analytical Report** Lab Order 2402C32

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/20/2024

CLIENT: JAKD Solutions		Client Sample ID: DP18 @2'				
Project: Billie 2	Collection Date: 2/23/2024 1:01:00 PM Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM				024 1:01:00 PM	
Lab ID: 2402C32-103					024 7:00:00 AM	
Analyses	Result	RL Qua	Units	DF	Date Analyzed	
EPA METHOD 300.0: ANIONS					Analyst: KCB	
Chloride	ND	60	mg/Kg	20	3/1/2024 7:47:06 PM	

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

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CLIENT: JAKD Solutions

**Analytical Report** Lab Order 2402C32 Date Reported: 3/20/2024

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: DP16 @2'

Project: Billie 2 Collection Date: 2/23/2024 1:10:00 PM Lab ID: 2402C32-104 Matrix: SOIL Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 8:02:15 PM

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

Qualifiers:

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

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**Analytical Report** 

Lab Order 2402C32 Date Reported: 3/20/2024

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: JAKD Solutions Project: Billie 2

Lab ID: 2402C32-105

Client Sample ID: DP16 @1'

Collection Date: 2/23/2024 1:07:00 PM Received Date: 2/24/2024 7:00:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: KCB
Chloride	ND	60	mg/Kg	20	3/1/2024 8:17:24 PM

Matrix: SOIL

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

- Sample Diluted Due to Matrix Holding times for preparation or analy Not Detected at the Reporting Limit ND
- Practical Quanitative Limit
  % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- - Page 105 of 118 Reporting Limit

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

Hall Environmen	ıtal Analysis Laborat	ory, Inc.	20-Mar-24
Client: JAKD Project: Billie	Solutions 2		
Sample ID: MB-80699	SampType: MBLK	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 80699	RunNo: 103398	
Prep Date: 2/28/2024	Analysis Date: 2/28/2024	SeqNo: 3825384 Units: mg/Kg	
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Sample ID: LCS-80699	SampType: LCS	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 80699	RunNo: 103398	
Prep Date: 2/28/2024	Analysis Date: 2/28/2024	SeqNo: 3825385 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLir	nit Qual
Chloride	14 1.5 15.00	0 96.5 90 110	
Sample ID: MB-80694	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 80694	RunNo: 103396	
Prep Date: 2/28/2024	Analysis Date: 2/28/2024	SeqNo: 3825488 Units: mg/Kg	
Analyte Chloride	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
	ND 1.5		
Sample ID: LCS-80694	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 80694	RunNo: 103396	
Prep Date: 2/28/2024	Analysis Date: 2/28/2024	SeqNo: 3825489 Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLir	nit Qual
Chloride	14 1.5 15.00	0 96.6 90 110	
Sample ID: MB-80724	SampType: MBLK	TestCode: EPA Method 300.0: Anions	
Client ID: PBS	Batch ID: 80724	RunNo: 103428	
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: <b>3826828</b> Units: <b>mg/Kg</b>	
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Chloride	ND 1.5		
Sample ID: LCS-80724	SampType: LCS	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 80724	RunNo: 103428	
Prep Date: 2/29/2024	Analysis Date: 2/29/2024	SeqNo: 3826829 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLin	nit Qual
Chloride	14 1.5 15.00	0 96.0 90 110	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceeded
   No Not Detected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range
- P Sample pH Not I RL Reporting Limit

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WO#:

2402C32

WO#: 2402C32

20-Mar-24

### **Appendix D: Soil Analytics**

### QC SUMMARY REPORT

JAKD Solutions

### Hall Environmental Analysis Laboratory, Inc.

Project: Billie 2 Sample ID: MB-80712 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 80712 RunNo: 103438 Prep Date: 2/29/2024 Analysis Date: 2/29/2024 SeqNo: 3827349 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Chloride ND 1.5

SampType: Ics Sample ID: LCS-80712 TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 80712 RunNo: 103438 Prep Date: 2/29/2024 Analysis Date: 2/29/2024 SeqNo: 3827350 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit Analyte Result %RPD RPDLimit Chloride 1.5 15.00 0 93.6 90

Sample ID: MB-80717 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 80717 RunNo: 103438 Prep Date: 2/29/2024 SeqNo: 3827351 Units: mg/Kg Analysis Date: 2/29/2024 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Chloride 1.5

Sample ID: LCS-80717 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 80717 RunNo: 103438 Prep Date: 2/29/2024 Analysis Date: 2/29/2024 SeaNo: 3827352 Units: ma/Ka Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 14 1.5 15.00 0 95.3 90 Chloride

Sample ID: 2402C32-061AMS SampType: ms TestCode: EPA Method 300.0: Anions Client ID: DP28 @1' Batch ID: 80712 RunNo: 103438 Prep Date: 2/29/2024 Analysis Date: 2/29/2024 SeqNo: 3827359 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual

Sample ID: 2402C32-061AMSD SampType: msd TestCode: EPA Method 300.0: Anions Client ID: DP28 @1' Batch ID: 80712 RunNo: 103438 Prep Date: 2/29/2024 Analysis Date: 2/29/2024 SeqNo: 3827360 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual Chloride 60 30.00 0 0 50 0 S

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

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

PQL Practical Quantitative Limit

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

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value Analyte detected below quantitation limits

RL Reporting Limit

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### **Appendix D: Soil Analytics**

### OC SUMMARY REPORT

JAKD Solutions

### Hall Environmental Analysis Laboratory, Inc.

Billie 2 Project: Sample ID: MB-80739 TestCode: EPA Method 300.0: Anions SampType: mblk Client ID: PBS Batch ID: 80739 RunNo: 103474 Prep Date: 3/1/2024 Analysis Date: 3/1/2024 SeqNo: 3828728 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Chloride ND 1.5 Sample ID: LCS-80739 SampType: Ics TestCode: EPA Method 300.0: Anions Batch ID: 80739 Client ID: LCSS RunNo: 103474 Analysis Date: 3/1/2024 Prep Date: 3/1/2024 SegNo: 3828729 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 1.5 15.00 Chloride 14 0 96.0 90 TestCode: EPA Method 300.0: Anions Sample ID: MB-80749 SampType: mblk Client ID: PBS Batch ID: 80749 RunNo: 103474 Prep Date: 3/1/2024 Analysis Date: 3/1/2024 SeqNo: 3828758 Units: ma/Ka Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual Chloride 1.5 Sample ID: LCS-80749 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 80749 RunNo: 103474 Prep Date: 3/1/2024 Analysis Date: 3/1/2024 SeqNo: 3828759 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual Chloride 14 1.5 15.00 0 96.1 90 110

Sample ID: MB-80797 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 80797 RunNo: 103524 Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SeqNo: 3831345 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte

Chloride 1.5 Sample ID: LCS-80797 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 80797 RunNo: 103524 Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SegNo: 3831347 Units: ma/Ka Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Analyte %RPD RPDLimit

0

1.5 15.00

#### Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.

97.9

90

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

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### **Appendix D: Soil Analytics**

# QC SUMMARY REPORT

JAKD Solutions

# Hall Environmental Analysis Laboratory, Inc.

Project: Billie 2											
Sample ID: MB-80700	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: PBS	Batch	ID: 80	700	F	RunNo: 1	03416					
Prep Date: 2/28/2024	Analysis D	ate: 2/	29/2024	8	SeqNo: 3	826458	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	12		10.00		123	61.2	134				
Sample ID: LCS-80700	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS	Batch	ID: 80	700	F	RunNo: 103416						
Prep Date: 2/28/2024	Analysis D	ate: 2/	29/2024	8	SeqNo: 3	826459	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	81	10	50.00	0	161	59.7	135			S	
Surr: DNOP	8.9		5.000		178	61.2	134			S	
Sample ID: MB-80696	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: PBS	Batch	ID: 80	696	F	RunNo: 1	03416					
Prep Date: 2/28/2024	Analysis D	ate: 2/	29/2024	5	SeqNo: 3	826770	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									

Sample ID: LCS-80696	SampT	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Di	esel Range	Organics		
Client ID: LCSS	Batch	ID: 80	696	R	RunNo: 103416						
Prep Date: 2/28/2024	Analysis D	ate: 2/	29/2024	S	eqNo: 3	826771	Units: mg/K				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	52	10	50.00	0	103	59.7	135				
Surr: DNOP	6.5		5.000		131	61.2	134				

Sample ID: LCS-80700	SampT	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Die	esel Range	Organics		
Client ID: LCSS	Batch	ID: 80	700	R	tunNo: 1	03440					
Prep Date: 2/28/2024	Analysis D	ate: 3/	1/2024	S	eqNo: 3	827436	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	67	10	50.00	0	135	59.7	135				
Surr: DNOP	6.2		5.000		124	61.2	134				

#### 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 Quantative Limit

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

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### **Appendix D: Soil Analytics**

# QC SUMMARY REPORT

JAKD Solutions

### Hall Environmental Analysis Laboratory, Inc.

Project: Billie 2 Sample ID: MB-80752 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80752 RunNo: 103526 Prep Date: 3/4/2024 Analysis Date: 3/5/2024 SeqNo: 3831459 Units: mg/Kg Result %RPD RPDLimit Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual ND 10 Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.4 10.00 93.7 61.2 134

Sample ID: LCS-80752	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 80	752	F	RunNo: 10	03526					
Prep Date: 3/4/2024	Analysis D	ate: 3/	5/2024	S	eqNo: 3	831461	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	59.7	135				
Surr: DNOP	4.3		5.000		85.1	61.2	134				

Sample ID: 2402C32-037AMS	SampTy	pe: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: \$37 @0-6'	Batch	ID: <b>80</b>	752	F	RunNo: 10	03526					
Prep Date: 3/4/2024	Analysis Da	ate: 3/	5/2024	S	SeqNo: 3	831477	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	55	9.8	48.92	7.930	96.1	43.7	136				
Surr: DNOP	4.9		4.892		101	61.2	134				

Sample ID: 2402C32-037AMS0	SampT	/pe: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	o Organics	
Client ID: \$37 @0-6'	Batch	ID: 80	752	F	RunNo: 10	03526				
Prep Date: 3/4/2024	Analysis Da	ysis Date: 3/5/2024 SeqNo:					Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.5	47.39	7.930	95.6	43.7	136	3.21	31.3	
Surr: DNOP	4.7		4.739		98.9	61.2	134	0	0	

Sample ID: 2402C32-031AMS	SampTy	pe: MS	3	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: \$31 @0-6'	Batch	ID: 80	700	F	RunNo: 10	03530						
Prep Date: 2/28/2024	Analysis Da	te: 3/	5/2024	SeqNo: 3831770 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	61	9.6	47.94	0	128	43.7	136					
Surr: DNOP	6.6		4.794		138	61.2	134			S		

#### Qualifiers:

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

- PQL Practical Quantitative Limit
  S % Recovery outside of standard limits. If undiluted results may be estimated.
- Above Quantitation Range/Estimated Value Analyte detected below quantitation limits Sample pH Not In Range

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# QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

JAKD Solutions Client: Billie 2 Project:

Sample ID: 2402C32-031AMSI	SampT	ype: MS	SD D	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	Organics	
Client ID: \$31 @0-6'	Batch	Batch ID: 80700 RunNo: 103530								
Prep Date: 2/28/2024	Analysis D	ate: 3/	5/2024	24 SeqNo: 3831771 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.3	46.25	0	143	43.7	136	7.68	31.3	S
Surr: DNOP	7.2		4.625		156	61.2	134	0	0	S

Sample ID: MB-80830	SampTy	/pe: <b>MB</b>	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 808	330	R	tunNo: 10	03605				
Prep Date: 3/7/2024	Analysis Da	ate: 3/8	8/2024	S	eqNo: 3	834408	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.6	61.2	134			

Sample ID: LCS-80830	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 80	830	F	RunNo: 1	03605				
Prep Date: 3/7/2024	Analysis D	ate: 3/	8/2024	8	SeqNo: 3	834409	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	59.7	135			
Surr: DNOP	4.3		5.000		86.6	61.2	134			

#### Qualifiers:

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

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### **Appendix D: Soil Analytics**

# QC SUMMARY REPORT

JAKD Solutions

# Hall Environmental Analysis Laboratory, Inc.

Project: Billie 2									
Sample ID: Ics-80646	SampType: L0	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch ID: 80	646	F	RunNo: 10	03405				
Prep Date: 2/26/2024	Analysis Date: 2	/27/2024	8	SeqNo: 38	325956	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	96.4	70	130			
Surr: BFB	2200	1000		224	15	244			
Sample ID: Ics-80684	SampType: LC	s	Tes	tCode: EF	A Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch ID: 80	684	F	RunNo: 10	03426				
Prep Date: 2/28/2024	Analysis Date: 2	/29/2024	5	SeqNo: 38	326793	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	92.6	70	130			
Surr: BFB	2000	1000		204	15	244			
Sample ID: mb-80684	SampType: MI	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch ID: 80	684	F	RunNo: 10	03426				
Prep Date: 2/28/2024	Analysis Date: 2	/29/2024	8	SeqNo: 38	326794	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1000	1000		104	15	244			
Sample ID: 2402c32-032ams	SampType: M	S	Tes	tCode: EF	A Method	8015D: Gaso	line Rang	е	
Client ID: \$32 @0-6'	Batch ID: 80	684	F	RunNo: 10	03426				
Prep Date: 2/28/2024	Analysis Date: 2	/29/2024	8	SeqNo: 38	326799	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27 5.0		0	109	70	130			
Surr: BFB	2300	996.0		229	15	244			

Sample ID: 2402c32-032amsd	SampTy	pe: MS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	9	
Client ID: \$32 @0-6'	Batch	ID: 80	684	F						
Prep Date: 2/28/2024	Analysis Da	ate: 2/	29/2024	SeqNo: 3826800			Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.80	0	99.7	70	130	9.18	20	
Surr: BFB	2200		992.1		221	15	244	0	0	

Sample ID: mb-80646	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 80646	RunNo: 103405	
Prep Date: 2/26/2024	Analysis Date: 2/27/2024	SeqNo: 3827281	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

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

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

Client: Project:	JAKD So Billie 2	olutions									
Sample ID: mt	-80646	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID: PE	S	Batch	ID: 80	646	F	RunNo: 1	03405				
Prep Date: 2	/26/2024	Analysis D	ate: 2/	27/2024	5	SeqNo: 3	827281	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0								
Surr: BFB		1000		1000		102	15	244			
Sample ID: Ics	-80673	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID: LC	SS	Batch	ID: 80	673	F	RunNo: 1	03467				
Prep Date: 2	/27/2024	Analysis D	ate: 3/	1/2024	5	SeqNo: 3	828458	Units: mg/K	g		

Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0 25.00	0	89.5	70	130			
Surr: BFB	2100	1000		213	15	244			
Sample ID: 2402c32-012ams	SampType	: MS	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: \$12 @0-6	Batch ID:	80673	F	RunNo: 1	03467				
Prep Date: 2/27/2024	Analysis Date	3/1/2024	5	SeqNo: 3	828465	Units: mg/K	g		
A			OD14 D 414 1				~	DDD11 11	

Prep Date: 2/27/2024	Analysis D	ate: 3/	1/2024	S	SeqNo: 3	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.98	0	85.7	70	130			
Surr: BFB	2100		999.0		209	15	244			

Sample ID: 2402c32-012amsd	SampT	ype: MS	BD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: \$12 @0-6	Batch	ID: 80	673	R	RunNo: 103467						
Prep Date: 2/27/2024	Analysis Da	ate: 3/	1/2024	S	eqNo: 3	828466	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.5	70	130	3.75	20		
Surr: BFB	2100		1000		211	15	244	0	0		

Sample ID: Ics-80734	SampTyp	oe: LCS	Test	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch I	D: 80734	R	RunNo: 103446					
Prep Date: 2/29/2024	Analysis Dat	te: 3/2/2024	SeqNo: 3829173			Units: %Rec			
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000	1000		204	15	244			

Sample ID: mb-80734	SampType	: MBLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch ID:	80734	R	RunNo: 103446					
Prep Date: 2/29/2024	Analysis Date:	SeqNo: 3829174			Units: %Rec	:			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950	1000		95.2	15	244			

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

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

Client: JAKD Solutions Project: Billie 2

Sample ID: Ics-80659	SampT	ype: LC	s	Test	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: 80	659	R	RunNo: 103486					
Prep Date: 2/27/2024	Analysis Date: 3/4/2024			SeqNo: 3830177			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	70	130			
Surr: BFB	2300	2300 1000			226	15	244			

Sample ID: mb-80659	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: PBS	Batch	1D: <b>80</b>	659	F	RunNo: 103486						
Prep Date: 2/27/2024	Analysis D	Analysis Date: 3/4/2024			SeqNo: 3830178			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1100		1000		110	15	244				

## Qualifiers:

- Value exceeds Maximum Contaminant Level.

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

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# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

Client: JAKD Solutions Project: Billie 2

Sample ID: Ics-80646 Client ID: LCSS		Type: LC			tCode: El	tiles				
Prep Date: 2/26/2024	Analysis D	Date: 2/2	27/2024	S	SeqNo: 3	825988	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	70	130			
Toluene	0.96	0.050	1.000	0	95.7	70	130			
Ethylbenzene	0.97	0.050	1.000	0	97.0	70	130			
Xylenes, Total	2.9	0.10	3.000	0	97.3	70	130			
Surr: 4-Bromofluorobenzene	0.97	0.97 1.000			96.7	39.1	146			

Sample ID: LCS-80684	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	h ID: 80	684	F	RunNo: 1	03426				
Prep Date: 2/28/2024	Analysis D	)ate: 2/	29/2024	S	eqNo: 3	826808	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.6	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.6	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146			

Sample ID: mb-80684 Client ID: PBS		SampType: MBLK Batch ID: 80684			tCode: El	iles				
Prep Date: 2/28/2024	Analysis D	Analysis Date: 2/29/2024			eqNo: 3	826809	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: 2402c32-033ams	SampT	ype: MS	3	Tes	tCode: El	tiles				
Client ID: \$33 @0-6'	Batch	n ID: <b>80</b> 0	684	F	RunNo: 10	03426				
Prep Date: 2/28/2024	Analysis D	ate: 2/	29/2024	8	SeqNo: 3	826815	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9970	0	93.1	70	130			
Toluene	0.98	0.050	0.9970	0	98.2	70	130			
Ethylbenzene	1.0	0.050	0.9970	0	102	70	130			
Xylenes, Total	3.1	0.10	2.991	0	103	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9970		101	39.1	146			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.

  D Sample Diluted Due to Matrix

  H Holding times for preparation or analysis exceeded

  ND Not Detected at the Reporting Limit

  PQL Practical Quantitative Limit

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

- Reporting Limit

Page 115 of 118

WO#:

2402C32

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

JAKD Solutions Client: Billie 2 Project:

Sample ID: 2402c32-033amsc	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: \$33 @0-6'	Batch	h ID: 80	584	F	RunNo: 1	03426				
Prep Date: 2/28/2024	Analysis D	)ate: 2/	29/2024	S	SeqNo: 3	826816	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9970	0	88.0	70	130	5.59	20	
Toluene	0.92	0.050	0.9970	0	91.8	70	130	6.69	20	
Ethylbenzene	0.94	0.050	0.9970	0	94.0	70	130	7.83	20	
Xylenes, Total	2.8	0.10	2.991	0	95.1	70	130	8.09	20	
Surr: 4-Bromofluorobenzene	0.95		0.9970		95.6	39.1	146	0	0	

Sample ID: mb-80646	SampT	SampType: MBLK			tCode: El	iles				
Client ID: PBS	Batch	Batch ID: 80646			tunNo: 10	03405				
Prep Date: 2/26/2024	Analysis D	)ate: 2/	27/2024	S	eqNo: 3	827282	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	39.1	146			

Sample ID: Ics-80673	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 80	673	F	RunNo: 1	03467				
Prep Date: 2/27/2024	Analysis D	)ate: 3/	1/2024	8	SeqNo: 3	828457	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	70	130			
Toluene	0.87	0.050	1.000	0	87.1	70	130			
Ethylbenzene	0.89	0.050	1.000	0	88.6	70	130			
Xylenes, Total	2.7	0.10	3.000	0	88.8	70	130			
Surr: 4-Bromofluorobenzene	0.97	0.97 1.000			96.7	39.1	146			

Sample ID: 2402c32-013ams	SampT	ype: MS	3	Tes	tCode: El	tiles				
Client ID: \$13 @0-6'	Batch	ID: 80	673	F	RunNo: 1	03467				
Prep Date: 2/27/2024	Analysis D	ate: 3/	1/2024	8	SeqNo: 3	828477	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9940	0	84.4	70	130			
Toluene	0.85	0.050	0.9940	0	85.3	70	130			
Ethylbenzene	0.87	0.050	0.9940	0	87.3	70	130			
Xylenes, Total	2.6	0.099	2.982	0	87.1	70	130			
Surr: 4-Bromofluorobenzene	0.97	.97 0.9940			97.2	39.1	146			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.

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

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WO#:

2402C32

# QC SUMMARY REPORT

# Hall Environmental Analysis Laboratory, Inc.

Client: JAKD Solutions Project: Billie 2

Sample ID: 2402c32-013ams Client ID: \$13 @0-6'		ype: MS			tCode: El		8021B: Volat	iles		
Prep Date: 2/27/2024	Analysis D			SeqNo: 3828521			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9901	0	87.6	70	130	3.36	20	
Toluene	0.88	0.050	0.9901	0	89.3	70	130	4.19	20	
Ethylbenzene	0.91	0.050	0.9901	0	91.4	70	130	4.22	20	
Xylenes, Total	2.7	0.099	2.970	0	91.4	70	130	4.44	20	
Surr: 4-Bromofluorobenzene	0.96		0.9901		96.7	39.1	146	0	0	

Sample ID: LCS-80734	SampTy	pe: LCS	Test	tCode: El	iles				
Client ID: LCSS	Batch I	ID: 80734	R	RunNo: 1	03446				
Prep Date: 2/29/2024	Analysis Da	te: 3/2/2024	S	eqNo: 3	829460	Units: %Rec	:		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96	1.000		95.8	39.1	146			

Sample ID: mb-80734	SampType:	MBLK	Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID:	80734	R	tunNo: 10	03446				
Prep Date: 2/29/2024	Analysis Date:	3/2/2024	S	eqNo: 38	329461	Units: %Rec	:		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92	1.000		92.3	39.1	146			

Sample ID: LCS-80659	SampT	ype: LC	S	Tes	tCode: El	tiles				
Client ID: LCSS	Batch	h ID: 80	659	F	RunNo: 1	03486				
Prep Date: 2/27/2024	Analysis D	)ate: 3/	4/2024	S	eqNo: 3	830473	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	70	130			
Toluene	0.90	0.050	1.000	0	90.0	70	130			
Ethylbenzene	0.93	0.050	1.000	0	92.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.2	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Sample ID: mb-80659	Samp <sup>*</sup>	SampType: MBLK			tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	Batch ID: 80659			RunNo: 1	03486				
Prep Date: 2/27/2024	Analysis [	Date: 3/	4/2024	8	eqNo: 3	830474	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
   Sample Diluted Due to Matrix
   H Holding times for preparation or analysis exceeded
   NO NO Telected at the Reporting Limit
   PQL Practical Quantative Limit
   S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
  E Above Quantitation Range/Estimated Value
  J Analyte detected below quantitation limits
  P Sample pH Not In Range
  RL Reporting Limit

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WO#:

2402C32

# QC SUMMARY REPORT

### Hall Environmental Analysis Laboratory, Inc.

Client: JAKD Solutions Project: Billie 2

Sample ID: mb-80659 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 80659 RunNo: 103486

Prep Date: 2/27/2024 Analysis Date: 3/4/2024 SeqNo: 3830474 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Surr: 4-Bromofluorobenzene 1.0 1.000 105 39.1

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

Page 118 of 118

WO#:

%RPD RPDLimit

2402C32

20-Mar-24

Qual

		i Env	ironment ?	TEI	All L: 505-345-397. Website: www.h	nquerq 5 FAX:	ue, NM 505-34	5-4107	Sam	iple Log-In (	Check List
Ctie	ent Name:	JAKD Soluti	ons	Work	Order Number	: 240	2C32			RoptNo	: 1
Rec	eived By:	Juan Rojas		2/24/20	24 7:00:00 AN	1		4	andyly		
Con	npleted By:	Juan Rojas	5	2/24/20	24 8:15:03 AN	1		4	andy		
	iewed By: (	me		z kalz	4						
Cha	in of Cus	tody									
1. 1:	s Chain of Cu	stody comple	ete?			Yes	~		No 🗌	Not Present	
2. F	low was the	sample delive	ered?			Cou	rier				
_	g <u>In</u> vas an attem	pt made to co	oor the sample	es?		Yes	~		No 🗆	na 🗆	
4. W	/ere all samp	les received	at a temperat	ure of >0° C	to 6.0°C	Yes	V		No 🗆	na 🗆	
5. s	ample(s) in s	proper contain	ner(s)?			Yes	V		No 🗆		
6. S	ufficient sam	ple volume fo	r indicated te	st(s)?		Yes	V	,	4o 🗌		
7. A	re samples (	except VOA a	and ONG) pro	perly preserve	ed?	Yes	<b>v</b>	1	10 🗌		
8. v	/as preserva	tive added to	bottles?			Yes		1	lo 🗹	NA 🗆	
Q p	eceived at le	aet 1 vial with	headsnare «	<1/4" for AQ V	OA?	Yes	П	,	to 🗆	NA 🗹	
			rs received br			Yes	_		No 🗹		
		rk match bott				Yes	•	,	No 🗆	# of preserved bottles checked for pH:	
			in of custody)				-			(<2 o	r >12 unless noted)
			ified on Chair			Yes			to 🗆		
		analyses we ng times able	re requested?	,		Yes			10 🗆	Checked by:	TUSPEY12
(1	f no, notify cu	istomer for a	uthorization.)								
15.V	Vas client no	tified of all dis	screpancies w	vith this order?	?	Yes			No 🗆	NA 🗸	_
	Person	Notified:			Date:						
	By Who				Via:	eM	ail	Phone	☐ Fax	n Pereon	
	Regard					_					
	Client II	nstructions: ]									
16.	Additional rea	marks:									
17.	Cooler Infor		Condition	Seal Intact	Seal No	Seal D	ate	Sign	ed By	1	
	1	3.5	Good	Yes	Yogi	Jean D	310	Sign			
	2	0.3	Good	Yes	Yogi						
	3	0.5	Good	Yes	Yogi						
	4	0.4	Good	Yes	Yogi						

Received by OCD: 2/3/2025 2:46:43 PM

Appendix D: Soil Analytics

Mailing Address: 381 Castilde Or				ts Standard	Turn-Around Timex  IN Standard Rush  Project Name:    Froject #:					HALL ENVIRONMENTAL ANALYSIS LABORATORY www.halienvironmental.com  4901 Hawkins NE - Albuquerque, NM 87109												
				Project #:						Tel. 505-345-3975 Fax 505-345-4107												
					Analysis Request																	
				Project Mane	TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	PCB's		OSIMS		, PO4, SO4			Total Coliform (Present/Absent)								
		□ Az Co	mpliance	Sampler:						4.1	827		NO <sub>2</sub>			rese				П		
NELAC Other				On Ice. Pyes I No				88	les/	2	00	als	3		Q	9 L				1		
□ EDD	(Type)			# of Coolers: 4 You Gooler Temp(indusing CF): See, Check 1:5 + (°C)				20	stick	thoc	831	Met	Br, NO <sub>3</sub> ,	8	mi-	ifor						
Date	Time	Matrix	Sample Name	Container	Preservative Type	HEAL No. 2402C32	втеху мтве	TPH:801	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CL)F, Br	8260 (VOA)	8270 (Semi-VOA)	Total Co						
1/3/2	300	5.1	5 60-6	1-402	Coal	-001	X	$\times$					X									
10 1	GOZ	1	52 60-6"	1	1	-002	X	X					X									
_	904		5360-61			-003	X	X					X									
	906		S4 60.61			7004	X	X					X					$\perp$				
	Gol		5560-64			-005	X	X					X					$\perp$				
	910		5/200-64			-006	X	X	20000				X									
	911		5760-61			-007	X	X					Х							Ш		
	913		58G0-6"			-008	X	X					X								_	
	Gr		59 60-69			-009	X	X					X					_		4	_	
	915		5000-61			-010	X	X					X	L			Ш	_		$\perp$	_	
0/	918		51100-6"			-011	X	X					X	L		_	Ш	_		-	_	
W	919	V	51200-64		V	-012	X	mark					X	L		_				L	L	
Date: Time: Relinguished by:				Received by:	1. Mut Wart 2/23/24 1511																	
2/23/2	1800	114	Just back	1/1	(ONIE	2/24/29 7:00															340	
	Ifnecessar	, samples su	ibmitted to Hall Environmental may be si	obcontracted to other	accredited laborator	es. This serves as notice of th	is pos	ibility.	Anys	b-con	tracte	ed data	a will b	eclea	rly not	aled o	a the as	alytical	report.			

Received by OCD: 2/3/2025 2:46:43 PM

Chain-of-Custody Record				Turn-Around Time:										=	NIX.	/TE		BI B	A E N	17.6		
Client:	TAK	1) (	oclution 5	Standard □ Rush					HALL ENVIRONMENTAL ANALYSIS LABORATORY													
	3 1	12	CIOI IV	Project Name:																		
Mailing Address: 78 (red 1296 )				Billie #2					www.hallenvironmental.com													
				Project #:				4901 Hawkins NE - Albuquerque, NM 87109														
				Troject #.					Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
Phone		3-60	60-1666												313	I CC						
email o	-	Same	s (9 yakd sold ions. u					21)	RO	S		co		SO4			sent					
	Package:			1.7	Me	Daniel		TMB's (8021)	~	PCB's		8270SIMS	8	Š.			Æ				ÌΙ	
18 Star			Level 4 (Full Validation)		-	1110	7	/B's	SK	32 F	_	270		,5F			sent					
Accred		☐ Az Co	ompliance	Sampler: On ice:				F	1/0	98	4	28.		ž		A	Pre			1		
D EDC		D Other		#of Coolers: H Yes I No					GR	des	d 5	100	tals	o.		0	E		- 1			
	(1)00)	l	1	Cooler Temp(haduding CF): See check(SF(°C)				MT	5D(	Pesticides/8082	ett.	83	Me	Z	8	i ii	IIIo					
										Pe	Ž	s by	A 8	8	S	(Se	ပ္မ					
Date	Time	Matrix	Sample Name	Containe Type and		Preservative Type	2402C32	<b>ETEX</b> ) MTBE	TPH:8015D(GRO / DRO / MRO)	8081	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	GJF, Br, NO3, NO2, PO4,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
1/23/51	9zz	Soil	51360-6"	1-40		Coal	-013	X	X					X						T	П	0
	924		S1460-67	1			-014	X	X					*								
	925		515 60-6"				-015	X	X					*								
	951		51660-6					X	4					X								
	927		517 60-6				-017	X	X					X								
	931		5860-6				-018	K	X					X								
	932		S19 60-6"				7019	X	X,					K								
	934		Szo 60-6"				-020	M	X					X								
	935		S21 6 0-6"				7021	X	X					M	F			П	T		T	
	931		S22001-10"				-022	X	X					X	F						П	
	939		52360-6"	11/		1/	-023	X	K					1							П	
. //	941	A	524 90-65	-		•	-024	X	X					1								
2/23/2	Time:	Relinquist	1001	Received by: Via Date Time					närk	\$:	Securi			SEVIE								
Date:	Time:	Relinquist	héd by:	Received b	NY N	Via	Daté Time															
123/24	1800	1/4/	bmitted to Hall Environmental may be sub	1	7/		2/24/24 7.00	L										- 11-	en la d'e e d			_

### Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: Standard ☐ Rush ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: 4901 Hawkins NE - Albuquerque, NM 87109 armin Len, 1 Project #: Tel. 505-345-3975 Fax 505-345-4107 Analysis Request Phone #: 0 Take solchers, comProject Manager: email or Fax#: Total Coliform (Present/Absent) TPH:8015D(GRO / DRO / MRO) (87EX), MTBE / TMB's (8021) 8081 Pesticides/8082 PCB's PAHs by 8310 or 8270SIMS QA/QC Package PO4, Standard □ Level 4 (Full Validation) NO<sub>2</sub> EDB (Method 504.1) Accreditation: ☐ Az Compliance Sampler: 8270 (Semi-VOA) NELAC □ No □ Other On Ice: (3)F, Br, NO3, RCRA 8 Metals ☐ EDD (Type) # of Coolers: 4091 8260 (VOA) spe check 1:54°C) Cooler Temp(houding OF): 2402032 Container Preservative Sample Name Type and # Type Time 943 Can 025 945 -026 947 -027 X 948) -028 950 -029 -030 953 954 -031 XX -037 956 -032 958 -034 959 $\times \times$ -035 -036 Received by: Remarks: Relinguished by: Refinquished by: Received by:

runer 7/24/24 7:00 If secessary, samples submitted to Hall Environmental may be subcostracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

			stody Record	Turn-Around	Time		-		1	-IA	LL	E	NV	/IR	201	NM	EN.	TAL	
Client:~	TAKI	Sa	lutions	Standar	d 🗆 Rush		-										TAS		
	3			Project Nam			1								tal.co				
Mailing	Address	3811	Crestider Dr.	13:11	, #2			4901	Hawl							M 871	09		
		asmir	A I A /	Project #:				Tel.						)•		4107			
Phone :		J-6/	0-1666	-				Tu.		10 0					uest			20	
		Englas /	sight desolutions com	Project Man	ager:		_	6	Т			SO4							
	Package:		3	- M	Daniel	•	3021	MR(		SN		4, S			psel				
D/Stan			☐ Level 4 (Full Validation)	000	Vanie		TMB's (8021)	TPH:8015D(GRO / DRO / MRO)		PAHs by 8310 or 8270SIMS		NO2, PO4,		- 3	Total Coliform (Present/Absent)	1			
		□ Az Co	mpliance	Sampler:	1100	$\sqrt{}$	TMB	F 5	9	827		Ş			ese				
WEL		□ Othe	<u> </u>	On Ice:		□ No	-	80	55	9	S			OA	e e				
□ EDD	(Type)			# of Coolers		e checkist (°C)	BTEX MTBE	9	EDB (Method 504.1)	831	RCRA 8 Metals	CL, F, Br, NO3,	F	8270 (Semi-VOA)	form				
				Cooler Tem	P(Induding CF): 5-	e checkingt (a)	2	015	¥et Set	à	181	ä,	8	(Sei	8				
				Container	Preservative	HEAL No.	MĘ)	뛺	8	AHS	SS	4	8260 (VOA)	270	otal				
-	Time	Matrix	Sample Name	Type and #	Туре	2402632	-	7	1 11	0	2	Ž	- 60	80	=	$\vdash$	+	$\vdash$	+
2/23/24	-	Soil	53700-6	1-402	Cool	-637	X	X	+	-	_	₹	_	-	$\vdash$			₩	+
11	1113		DP2902)			-038			1	_		4		_		1	-	₩	_
	1109		DP2961			-035						+							
	1704	П	DP 33 621			-040						7							
	1100		DP 33@1			-041			T			4							
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-	1100	1	10P26 21	11		-043						X							T
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			ustody Reco	ord	Turn	Around	Time:			-	1			44		FI	MV	/TE	20	NM	IEN	TAI	
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**Chain-of-Custody Record** Turn-Around Time: HALL ENVIRONMENTAL

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				Project Nan	ie:		-								tal.co				
Mailing	Address	:38	1 Chetridge Dr.	Billi	e #2			4901	Haw	cins I	NE -	- Alb	ugu	erqu	e, NI	M 871	09		
	P	Trymi	MANIAM 87401	Project #:				Tel.	505-3	45-3	975	F	=ax	505	-345-	4107			
Phone	#: 50	5-860	1-4666								A	Analy	ysis	Rec	uest				
email o	r Fax#:	Salvs	Cojako solutians, com	Project Man			=	<u>©</u>				SO4			£				
QA/QC	Package: ndard		☐ Level 4 (Full Validation)	JM	coniel		3's (8021)	SO / MF	2	PAHs by 8310 or 8270SIMS		PO4,			Coliform (Present/Absent)				
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Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2407632	BTEX/		EDB (Method 504.1)	PAHs !	RCRA 8 Metals	(B)F, Br,	8260 (VOA)	8270 (Semi-VOA)	Total C				
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			Counts Name	Container Type and #	Preservative Type		BTEX / MTBE /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	CL)F, Br, NOs,	8260 (VOA)	8270 (SemI-VOA)	Total Coliform (Present/Absent)					
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**Table 2: Initial Soil Sampling Results** 

	Billie #002										
Lab Resul	ts Table			Result	S						
	Map 3: ID	Depth				Benzene					
Sample		Sampled	Chlorides		BTEX	(mg/kg)					
#		(feet BGS)	(mg/kg)	TPH (mg/kg)	(mg/kg)						
01A	Billie Pad	0	290	NT	NT	NT					
02A	Billie Off-Pad	0	23.4	NT	NT	NT					
03A	Billie Gulley	0	ND	NT	NT	NT					
Notes:											
	1. BGS means	below grade									
	surface										
	2. TPH means	total petroleur	n hydrocarbons								
	3. BTEX mean	s Benzene, Toli	uene, Ethylbenzene	and Xylene							
	4. ND means	not detected									
	5. NT means r	not tested									

Figure B: Initial Soil Sample Report





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Dugan Production Corp.

Project Name: Billie

Work Order: E309219

Job Number: 06094-0177

Received: 9/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Page 1 of 11

Date Reported: 10/4/23

Kevin Smaka PO Box 420 Farmington, NM 87499

Project Name: Billie Workorder: E309219

Date Received: 9/28/2023 9:37:00AM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/28/2023 9:37:00AM, under the Project Name: Billie.

The analytical test results summarized in this report with the Project Name: Billie apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director

Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Data	5
Billie Pad	5
Billie Off Pad	6
Billie Gulley	7
QC Summary Data	8
QC - Anions by EPA 300.0/9056A	8
Definitions and Notes	9
Chain of Custody etc.	10

### Sample Summary

Dugan Production Corp.	Project Name:	Billic	Powerted.
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/04/23 10:34

Client Sample ID	Lab Sample ID Mad	rix Sampled	Received	Container
Billic Pad	E309219-01A So	il 09/27/23	09/28/23	Glass Jar, 2 oz.
Billie Off Pad	E309219-02A So	il 09/27/23	09/28/23	Glass Jar, 2 oz.
Billie Gulley	E309219-03A So	il 09/27/23	09/28/23	Glass Jar, 2 oz.

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### Sample Data

Dugan Production Corp.	Project Name:	Billie	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/4/2023 10:34:31AM

Billie Pad E309219-01

		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	RAS		Batch: 2339113	
Chloride	290	20.0	1	09/29/23	09/29/23		

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## Sample Data

Dugan Production Corp.	Project Name:	Billie	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/4/2023 10:34:31AM

# Billie Off Pad

### E309219-02

		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst:	RAS		Batch: 2339113	
Chloride	23.4	20.0	1	09/29/23	09/29/23		

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## Sample Data

	· · · · · · · · · · · · · · · · · · ·		
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/4/2023 10:34:31AM
PO Box 420	Project Number:	06094-0177	Reported:
Dugan Production Corp.	Project Name:	Billie	

### Billie Gulley E309219-03

		Reporting					_
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst:	RAS		Batch: 2339113	
Chloride	ND	20.0	1	09 29 23	09/29/23		_

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### **QC Summary Data**

Dugan Production Corp. PO Box 420 Farmington NM, 87499		Project Name: Project Number: Project Manager:	06	illie 6094-0177 evin Smaka					Reported:
Turning to the transfer of the				00.0/9056A	<b>.</b>				Analyst: RAS
Analyte	Result mg.kg	Reporting Limit mg kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
Ph-1-(2330113 PLIVA)								100 - 6.0	
Blank (2339113-BLK1) Chloride	ND	20.0					Prepared: 0	9/29/23	Analyzed: 09/29/23
LCS (2339113-BS1)							Prepared: 0	9/29/23	Analyzed: 09/29/23
Chloride	259	20.0	250		103	90-110			
Matrix Spike (2339113-MS1)				Source:	E309219-0	1	Prepared: 0	9/29/23	Analyzed: 09/29/23
Chloride	549	20.0	250	290	104	80-120			
Matrix Spike Dup (2339113-MSD1)				Source:	E309219-0	1	Prepared: 0	9/29/23	Analyzed: 09/29/23
Chloride	570	20.0	250	290	112	80-120	3.81	20	

### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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### **Definitions and Notes**

Dugan Production Corp.	Project Name:	Billie	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/04/23 10:34

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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**Appendix D: Soil Analytics** 

ddress:	nager: Ke	Illie				Bill To															
ddress: ity, State, i hone: mail:		Client: DV3CA Billie Attention: Project Manager: Kevin Sneke Address: City State 7in						Lab E3	wo#	21		Cle	Numb 94	OT	J	D 21	31	D St	andard	CWA	SOW
ity, State, a hone: mail:		0.17)	,,,,,			City, State, Zip		,				Anal	ysis ar	d Me	thod				-		RCRA
hone:	Ziji					Phone:														1	
						Email:		3015	8015										NIM CO	State UT AZ	TX
consent estate					1			94	GRO/DRO by 8015	8071	8260	010	3000	5	-				TVIVI CO	OI XI	17.
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durent 13,	ate Sampled	Matrix	factories	Sample ID			Number	DRO/ORO by 8015	GRO	BTEX D,	VOC by	Met	Chloride	93000	ë.	_	+	-		Remarks	
3,00	7-27	5		Bi//i	e	Pad	1						X		_	_	_	_			
	7-27	5	1	Billi	e	Prod Off Prod Gulley	2						Y				1	_			
	7-27	5	/	Billie		Gulles	3						X								
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noir Matrix 5	Soil, Sd - Soil	of, Sg - Slude	er, A - Aquere	nus, O - Other			Container	Туре	: g - K	lass, p	p - pc	oly/pl	astic,	ag - ar	nber	glass, v	- 10	A			
		rded 30 da	ys after re-	sults are reporte		ss other arrangements are made. Hazaro														analysis of	the above

Chain of Custody

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		Envirotech	Analy	tical Laboratory		Printed: 9/28/2023 5:13:18PM
			-	Checklist (SRC)		
	Please take note of any NO checkmarks. no response concerning these items within 24 hours of t	_	-			
. 100					ted.	
Client:	Dugan Production Corp.	Date Received:	09/28/23		Work Order ID:	E309219
Phone:	505-486-6207	Date Logged In:	09/28/23		Logged In By:	Caitlin Mars
Email:	kevin.smaka@duganproduction.com	Due Date:	10/05/23	3 17:00 (5 day TAT)		
Chain of	Custody (COC)					
1. Does t	he sample ID match the COC?		Yes			
	he number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: Kevin Smaka		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. Were a	ill samples received within holding time?		Yes			
	Note: Analysis, such as pH which should be conducted in i.e. 15 minute hold time, are not included in this disucssi				Commen	ts/Resolution
Sample '	Furn Around Time (TAT)					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
7. Was a	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes	i		
	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	, were custody/security scals intact?		NA			
12. Was tl	ne sample received on ice? If yes, the recorded temp is 4°C,	i.e., 6°±2°C	Yes			
	Note: Thermal preservation is not required, if samples are		103			
	minutes of sampling					
	visible ice, record the temperature. Actual sample	temperature: 4°	<u>°C</u>			
	Container					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'		Yes			
	appropriate volume/weight or number of sample contain	ners collected?	Yes			
Field La						
	field sample labels filled out with the minimum info sample ID?	rmation:				
	Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
Sample	Preservation		143			
21. Docs	the COC or field labels indicate the samples were pr	reserved?	No			
22. Are s	ample(s) correctly preserved?		NA			
24. Is lat	filteration required and/or requested for dissolved n	netals?	No			
Multiph	ase Sample Matrix					
26. Does	the sample have more than one phase, i.e., multipha	se?	No			
27. If yes	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laborato	rv?	No			
	a subcontract laboratory specified by the client and i	•	NA	Subcontract Lab: na		
	nstruction			Subconnact East. Ha		
CHERCI	nstruction					
						l
1						
_						. (4)
Signa	ture of client authorizing changes to the COC or sample dis	position.		Date		envirotech I

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

QUESTIONS

Action 426832

### **QUESTIONS**

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	426832
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2308855433
Incident Name	NAPP2308855433 BILLIE #2 @ 30-045-24713
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-045-24713] BILLIE #002

ocation of Release Source						
Please answer all the questions in this group.						
Site Name	BILLIE #2					
Date Release Discovered	03/28/2023					
Surface Owner	Federal					

ncident Details							
Please answer all the questions in this group.							
Incident Type	Produced Water Release						
Did this release result in a fire or is the result of a fire	No						
Did this release result in any injuries	No						
Has this release reached or does it have a reasonable probability of reaching a watercourse	No						
Has this release endangered or does it have a reasonable probability of endangering public health	No						
Has this release substantially damaged or will it substantially damage property or the environment	No						
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No						

Nature and Volume of Release							
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.							
Crude Oil Released (bbls) Details	Not answered.						
Produced Water Released (bbls) Details	Cause: Equipment Failure   Valve   Produced Water   Released: 305 BBL   Recovered: 0 BBL   Lost: 305 BBL.						
Is the concentration of chloride in the produced water >10,000 mg/l	Yes						
Condensate Released (bbls) Details	Not answered.						
Natural Gas Vented (Mcf) Details	Not answered.						
Natural Gas Flared (Mcf) Details	Not answered.						
Other Released Details	Not answered.						
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.						

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

QUESTIONS, Page 2

Action 426832

QUESTIONS (continued)

Operator:	OGRID:
DUGAN PRODUCTION CORP PO Box 420	6515
Farmington, NM 87499	Action Number: 426832
Tannington, Nin or too	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	. gas only) are to be submitted on the C-129 form.
L =	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a sa	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Tyra Feil Title: ENGINEERING ASSISTANT Email: Tyra.Feil@duganproduction.com Date: 02/03/2025

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

QUESTIONS, Page 3

Action 426832

**QUESTIONS** (continued)

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	426832
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	590	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	03/28/2023	
On what date will (or did) the final sampling or liner inspection occur	02/23/2024	
On what date will (or was) the remediation complete(d)	02/23/2024	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	19000	
What is the estimated volume (in cubic yards) that will be remediated	1407	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 5/20/2025 9:35:34 AM

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

QUESTIONS, Page 4

Action 426832

**QUESTIONS** (continued)

ı	Operator:	OGRID:
ı	DUGAN PRODUCTION CORP	6515
ı	PO Box 420	Action Number:
ı	Farmington, NM 87499	426832
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

Name: Tyra Feil
Title: ENGINEERING ASSISTANT
Email: Tyra.Feil@duganproduction.com
Date: 02/03/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 426832

QUESTIONS (continued)

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	426832
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 426832

<b>QUESTIONS</b>	(continued)
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Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	426832
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	312915
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/16/2024
What was the (estimated) number of samples that were to be gathered	121
What was the sampling surface area in square feet	18000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	19000
What was the total volume (cubic yards) remediated	1407
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	19000
What was the total volume (in cubic yards) reclaimed	1407
Summarize any additional remediation activities not included by answers (above)	All information included

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: Tyra.Feil@duganproduction.com

Date: 02/03/2025

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

QUESTIONS, Page 7

Action 426832

**QUESTIONS** (continued)

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
Farmington, NM 87499	426832
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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

CONDITIONS

Action 426832

### **CONDITIONS**

Operator:	OGRID:
DUGAN PRODUCTION CORP	6515
PO Box 420	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

### CONDITIONS

Create By	d Condition	Condition Date
nvel	z None	5/20/2025