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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: **Roddy Production**	OGRID: **36845**
Contact Name: **Jeremy Divine**	Contact Telephone: **(432) 557-6778**
Contact email: **jdivine@crownquest.com**	Incident # *(assigned by OCD)* **NAPP2211260998**
Contact mailing address: **4001 N. BUTLER, BLDG 7101**	**Farmington, New Mexico, 87401**

Location of Release Source

Latitude **36.88900** Longitude **-108.131296**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: **Owen 2A**	Site Type: **Well Site**
Date Release Discovered: **4/18/2022**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**19**	**31N**	**12W**	**San Juan**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **19**	Volume Recovered (bbls) **0**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
The below grade tank on-site was discovered to be 19 bbls short on production water. A leak was suspected from the bottom of the below grade tank. The below grade tank was immediately emptied, and closure activities were completed. Delineation activities were completed on March 15, 2023.

State of New Mexico
Oil Conservation Division

Incident ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

- ☐ The source of the release has been stopped.
- ☐ The impacted area has been secured to protect human health and the environment.
- ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☐ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	50-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? – **Ephemeral Wash approximately 270' south**	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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

Printed Name: **James McDaniel** Title: **Project Manager**

Signature:  Date: **3/22/2023**

email: **james@jakdsolutions.com** Telephone: **505-860-1666**

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

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

Printed Name: **James McDaniel** Title: **Project Manager**

Signature:  Date: **3/22/2023**

email: **james@jakdsolutions.com** Telephone: **505-860-1666**

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 03/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

JAKD SOLUTIONS

ON-SITE FORM

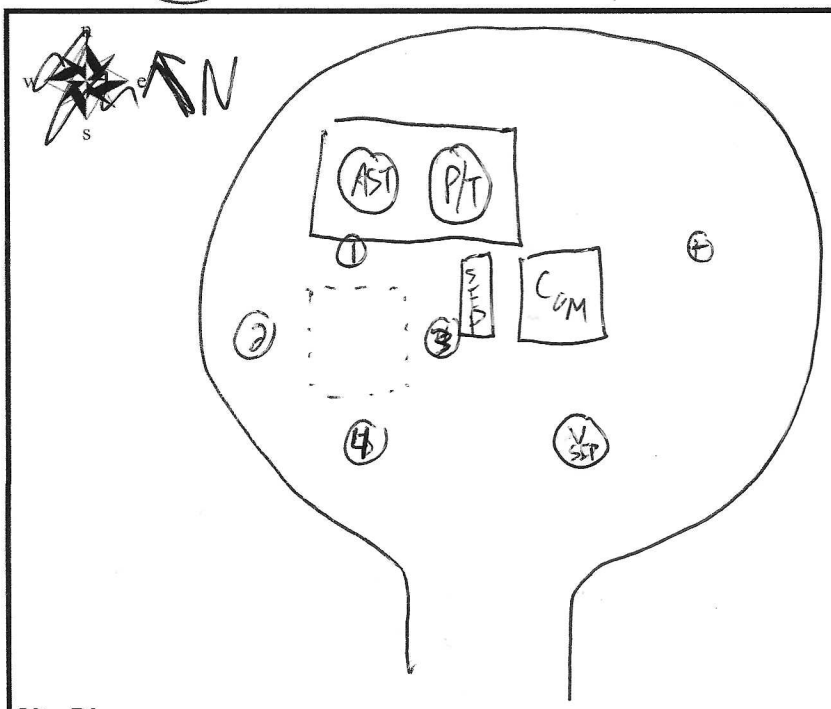
Well Name Owen #2A API # 30-045-30235

Section 18 Township 26N Range 8W County SJ State NM

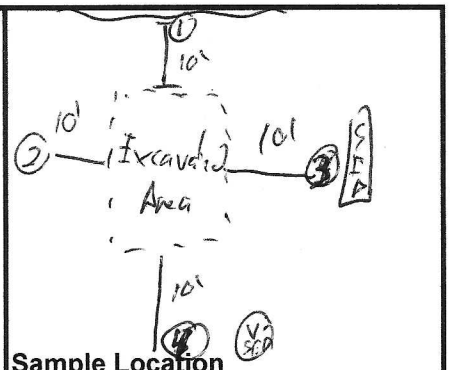
Contractors On-Site NaM Time On-Site 1030 Time Off-Site 1135

Spill Amount — bbls Spilled (Oil/Produced Water/Other —) Recovered —

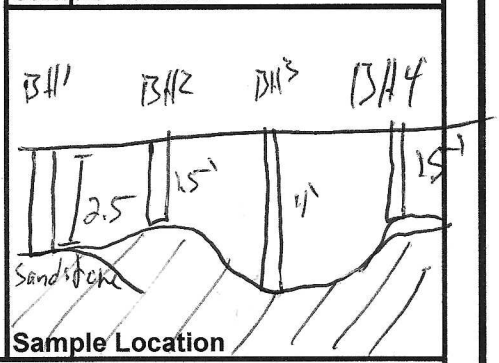
Land Use (Range / Residential / Tribe) Spill Area — x — x — deep



Site Diagram



Sample Location



Sample Location

Comments

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA	—	NA
1035	1	BH #1 @ 2.5' (sandstone)	Coarse sandstone	—	8015, 8021, Cl
1045	2	BH #2 @ 1.5' (sandstone)	↓	—	↓
1055	3	BH #3 @ 4' (sandstone)		—	
1105	4	BH #4 @ 1.5' (sandstone)		—	

Name (Print) James McDaniel Date 3/15/23

Name (Signature) [signature] Company JAKD

JAKD SOLUTIONS

ON-SITE FORM

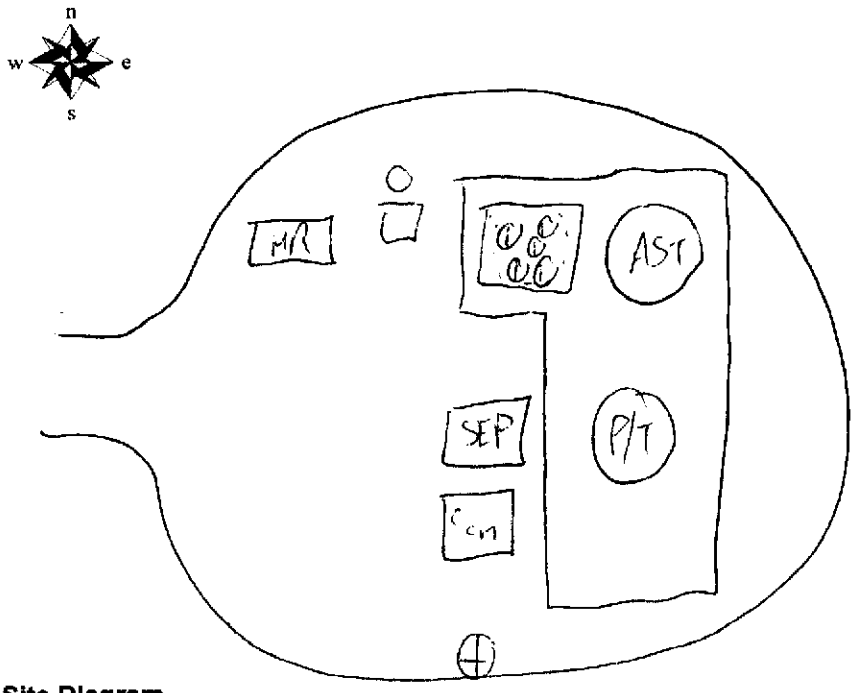
Well Name Owen 2A API # 30-045-30235

Section 18 Township 26N Range 8W County San Juan State NM

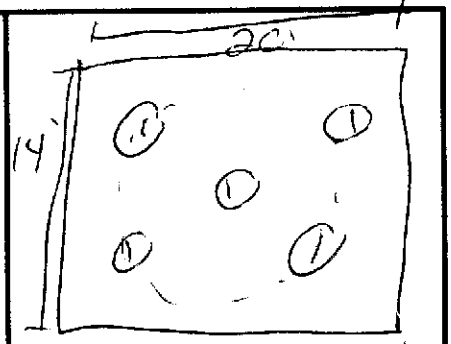
Contractors On-Site Knockout Time On-Site 730 AM Time Off-Site 932 AM

Spill Amount 19 bbls Spilled (Oil/Produced Water/Other —) Recovered 0

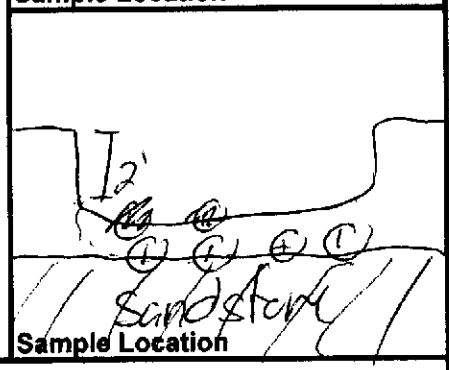
Land Use (Range / Residential / Tribe —) Spill Area ____ x ____ x ____ deep



Site Diagram



Sample Location



Sample Location

Comments

*Emmanuel w/ BLM on-site to witness SF-078243 Sandstone @ 3'

*Excavated ≈ 6"-1' off Bottom. Sandstone Encountered

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
—	NA	100 Standard	NA	—	NA
915	1	Bottom Composite @ 3'	Sandy, some stone, no odor	—	8015, 8021, Cl

Name (Print) James McDaniel Date 4/29/2022

Name (Signature) [signature] Company JAKD Solutions

Drawn By: James McDaniel
Date: 4/20/2022

AERIAL MAP

Company: **Roddy Production**
Well Name: **Owen 2A**
API: **30-045-30235**
Sec **19**, Twn **31N**, Rge **12W**
San Juan County, New Mexico
Lease: **SF-078243**
Lat: **36.889009**, Long: **-108.131296**

LEGEND

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 11, 2022

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

RE: Owens 2A OrderNo.: 2204D51

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2204D51**
Date Reported: **5/11/2022**

CLIENT: JAKD Solutions
Client Sample ID: Bottom Composite @3'
Project: Owens 2A
Collection Date: 4/29/2022 9:15:00 AM
Lab ID: 2204D51-001 **Matrix:** SOIL
Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	5/6/2022 5:40:23 PM
Motor Oil Range Organics (MRO)	94	49		mg/Kg	1	5/6/2022 5:40:23 PM
Surr: DNOP	109	51.1-141		%Rec	1	5/6/2022 5:40:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	880	60		mg/Kg	20	5/6/2022 3:04:09 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**
Benzene	ND	0.025		mg/Kg	1	5/5/2022 5:52:29 PM
Toluene	ND	0.049		mg/Kg	1	5/5/2022 5:52:29 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/5/2022 5:52:29 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/5/2022 5:52:29 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: Toluene-d8	104	70-130		%Rec	1	5/5/2022 5:52:29 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/5/2022 5:52:29 PM
Surr: BFB	105	70-130		%Rec	1	5/5/2022 5:52:29 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **MB-67316**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67316**	RunNo: **87798**
Prep Date: **5/6/2022**	Analysis Date: **5/6/2022**	SeqNo: **3111668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67316**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67316**	RunNo: **87798**
Prep Date: **5/6/2022**	Analysis Date: **5/6/2022**	SeqNo: **3111669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **LCS-67260**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109550** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	135			
Surr: DNOP	3.7		5.000		73.5	51.1	141			

Sample ID: **MB-67260**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109554** Units: **mg/Kg**

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	8.4		10.00		84.4	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **lcs-67232** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **67232** RunNo: **87782**

Prep Date: **5/3/2022** Analysis Date: **5/5/2022** SeqNo: **3109258** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.60		0.5000		120	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: **mb-67232** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **67232** RunNo: **87782**

Prep Date: **5/3/2022** Analysis Date: **5/5/2022** SeqNo: **3109259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **lcs-67232**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67232**	RunNo: **87782**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109233** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: **mb-67232**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **67232**	RunNo: **87782**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109234** 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	510		500.0		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: JAKD Solutions | Work Order Number: 2204D51 | RcptNo: 1

Received By: Juan Rojas 4/30/2022 8:30:00 AM

Completed By: Juan Rojas 4/30/2022 10:12:56 AM

Reviewed By: KPG 5.2.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 4/30/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: JAKD Solutions

Mailing Address: 3811 Crestridge Dr. Farmington, NM

Phone #: 505-860-1666

email or Fax#: james@jakdsolutions.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☑ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Owens 2A

Project #: —

Project Manager: J McDaniel

Sampler: James McDaniel

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.6+0.1=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204251	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/29/22	915	Soil	Bottom Composite @3'	1-4oz	Cool	-001	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
4/29/22	1012				4/29/22	1012
4/29/22	1746			courier	4/30/22	8:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 11, 2022

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

RE: Owens 2A OrderNo.: 2204D51

Dear James McDaniel:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2204D51**
Date Reported: **5/11/2022**

CLIENT: JAKD Solutions
Client Sample ID: Bottom Composite @3'
Project: Owens 2A
Collection Date: 4/29/2022 9:15:00 AM
Lab ID: 2204D51-001 **Matrix:** SOIL
Received Date: 4/30/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	5/6/2022 5:40:23 PM
Motor Oil Range Organics (MRO)	94	49		mg/Kg	1	5/6/2022 5:40:23 PM
Surr: DNOP	109	51.1-141		%Rec	1	5/6/2022 5:40:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **NAI**
Chloride	880	60		mg/Kg	20	5/6/2022 3:04:09 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**
Benzene	ND	0.025		mg/Kg	1	5/5/2022 5:52:29 PM
Toluene	ND	0.049		mg/Kg	1	5/5/2022 5:52:29 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/5/2022 5:52:29 PM
Xylenes, Total	ND	0.098		mg/Kg	1	5/5/2022 5:52:29 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	5/5/2022 5:52:29 PM
Surr: Toluene-d8	104	70-130		%Rec	1	5/5/2022 5:52:29 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/5/2022 5:52:29 PM
Surr: BFB	105	70-130		%Rec	1	5/5/2022 5:52:29 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **MB-67316**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67316**	RunNo: **87798**
Prep Date: **5/6/2022**	Analysis Date: **5/6/2022**	SeqNo: **3111668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67316**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67316**	RunNo: **87798**
Prep Date: **5/6/2022**	Analysis Date: **5/6/2022**	SeqNo: **3111669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **LCS-67260**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109550** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	135			
Surr: DNOP	3.7		5.000		73.5	51.1	141			

Sample ID: **MB-67260**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109554** Units: **mg/Kg**

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	8.4		10.00		84.4	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **lcs-67232** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **67232** RunNo: **87782**

Prep Date: **5/3/2022** Analysis Date: **5/5/2022** SeqNo: **3109258** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.60		0.5000		120	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: **mb-67232** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **67232** RunNo: **87782**

Prep Date: **5/3/2022** Analysis Date: **5/5/2022** SeqNo: **3109259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204D51**

11-May-22

Client: JAKD Solutions

Project: Owens 2A

Sample ID: **lcs-67232**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67232**	RunNo: **87782**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109233** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: **mb-67232**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **67232**	RunNo: **87782**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109234** 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	510		500.0		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: JAKD Solutions | Work Order Number: 2204D51 | RcptNo: 1

Received By: Juan Rojas 4/30/2022 8:30:00 AM

Completed By: Juan Rojas 4/30/2022 10:12:56 AM

Reviewed By: KPG 5.2.22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 4/30/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: JAKD Solutions

Mailing Address: 3811 Crestridge Dr. Farmington, NM

Phone #: 505-860-1666

email or Fax#: james@jakdsolutions.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☑ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Owens 2A

Project #: —

Project Manager: J McDaniel

Sampler: James McDaniel

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.6+0.1=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

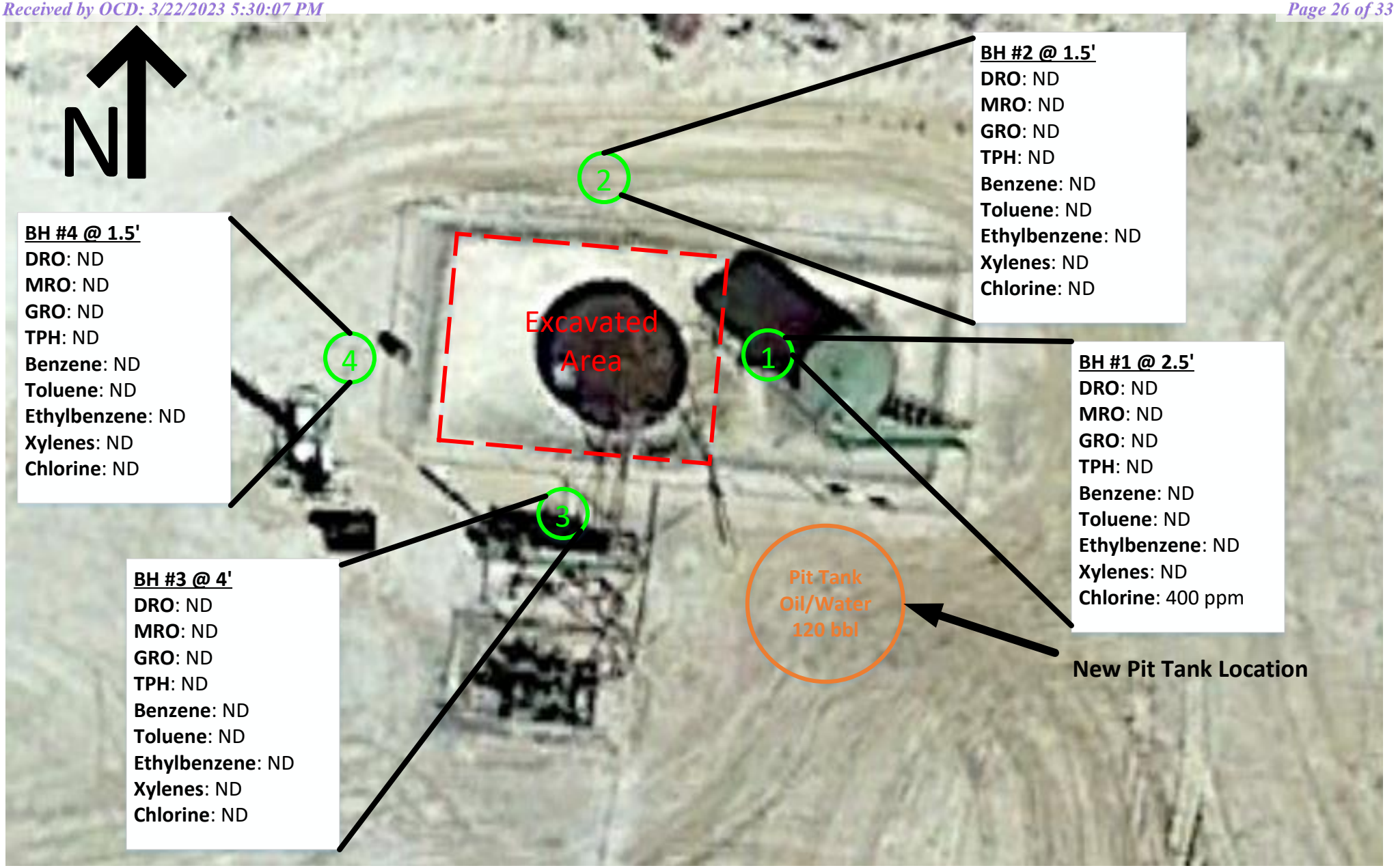
Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204251	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/29/22	915	Soil	Bottom Composite @3'	1-4oz	Cool	-001	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/29/22	1012				4/29/22	1012
4/29/22	1746			courier	4/30/22	8:30

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Drawn By: James McDaniel
Date: 3/20/2023

JAKD SOLUTIONS

SAMPLING MAP

Company: **Roddy Production**
Well Name: **Owen 2A**
API: **30-045-30235**
Sec **19**, Twn 31**N**, Rge 12**W**
San Juan County, New Mexico
Lease: **SF-078243**
Lat: **36.88901**, Long: **-108.13130**

LEGEND

1 Borehole Locations

Drawn By: James McDaniel
Date: 5/18/2022

JAKD SOLUTIONS

SAMPLING MAP

Company: **Roddy Production**
Well Name: **Owen 2A**
API: **30-045-30235**
Sec **19**, Twn 31**N**, Rge 12**W**
San Juan County, New Mexico
Lease: **SF-078243**
Lat: **36.88901**, Long: **-108.13130**

LEGEND

X Sample Point

Roddy Production
Owen 2A
30-045-30235

Photo 1: Owen 2A Well Sign

Roddy Production
Owen 2A
30-045-30235

Photo 2: Backfilled Excavation Area

Owen #2A Analytical Data

Sample Name	Date	Time	Diesel Range Organics (DRO) (ppm)	Gasoline Range Organics (GRO) (ppm)	Oil Range Organics (MRO) (ppm)	Total TPH (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	Total BTEX (ppm)	Chlorides (ppm)
Bottom Composite @ 3'	4/29/2023	9:15 AM	32	ND	94	**126**	ND	ND	ND	ND	ND	**880**
BH#1 @ 2.5' (Stone)	3/15/2023	10:35 AM	ND	ND	ND	ND	ND	ND	ND	ND	ND	400
BH#2 @ 1.5' (Stone)	3/15/2023	10:45 AM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH#3 @ 4' (Stone)	3/15/2023	10:55 AM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH#4 @ 1.5' (Stone)	3/15/2023	11:05 AM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Roddy Production Co,, Inc.
San Juan Basin
Release Variance Request

Well Name: **Owen 2A**
API No.: **30-045-30235**
Description: **Unit A, Section 19, Township 31N, Range 12W, San Juan County**

On-Site Activity

4/18/2022

Roddy Production operations personnel noticed that there was a discrepancy in the water volume in the BGT at the Owen 2A well location. Approximately 19 bbls of water was unaccounted for in the BGT. A leak in the BGT was suspected, and the BGT was immediately emptied to prevent additional water from being lost.

4/25/2022

Notification of BGT closure activities was made to the NMOCD and the BLM.

4/29/2022

JAKD Personnel, Roddy Production personnel, Knock-Out Construction and Emanual Adeloye with the BLM were on-site for BGT closure activities. Approximately 1 foot of soil was excavated from the BGT cellar beneath the former location of the BGT due to visual salt staining on the surface. A hard sandstone layer was encountered at 3' below ground surface (1' below the BGT bottom), and additional excavation could not take place. A composite sample was collected at 3' below ground surface of the sandstone material beneath the former location of the BGT. The sample was analyzed at Hall Environmental Laboratory.

5/11/2022

Sample results from the BGT composite demonstrated that all constituents analyzed were below the closure requirements approved in the BGT registration approved by the NMOCD on March 9, 2022.

5/18/2022

The former BGT area was backfilled using soil from on-site and compacted. The area will continue to be used for the operation of the Owen 2A wellsite.

3/15/2023

In order to delineate potential contaminants beneath the surface, JAKD Solutions was on-site on March 15, 2023 to collect at depth samples from the perimeter of the previously excavated area. Samples were collected from approximately 10 feet outside of the previously excavated area and were collected using a stainless-steel hand auger.

Borehole #1 (BH#1) was completed to the east of the previously excavated area and was advanced until refusal was met at 2.5' below ground surface (bgs). At this depth, sandstone was encountered, and the auger could not be advanced further. A sample was collected of the sandstone at this depth and collected into a 4-ounch glass jar for laboratory analysis. No visible staining or odors were encountered in this boring.

Borehole #2 (BH#2) was completed to the north of the previously excavated area and was advanced until refusal was met at 1.5' below ground surface (bgs). At this depth, sandstone was encountered, and the auger could not be advanced further. A sample was collected of the sandstone at this depth and collected into a 4-ounch glass jar for laboratory analysis. No visible staining or odors were encountered in this boring.

Borehole #3 (BH#3) was completed to the south of the previously excavated area and was advanced until refusal was met at 4' below ground surface (bgs). At this depth, sandstone was encountered, and the auger could not be advanced further. A sample was collected of the sandstone at this depth and collected into a 4-ounch glass jar for laboratory analysis. No visible staining or odors were encountered in this boring.

Borehole #4 (BH#4) was completed to the west of the previously excavated area and was advanced until refusal was met at 1.5' below ground surface (bgs). At this depth, sandstone was encountered, and the auger could not be advanced further. A sample was collected of the sandstone at this depth and collected into a 4-ounch glass jar for laboratory analysis. No visible staining or odors were encountered in this boring.

Samples were analyzed at Hall Environmental Laboratory for TPH (DRO+GRO+MRO) via USEPA Method 8015M, for BTEX via USEPA Method 8021B, and for chlorides via USEPA Method USEPA Method 300.0. All samples returned results of non-detect for TPH and BTEX constituents, and 3 of the 4 samples return ed results of non-detect for chlorides as well. The sample collected from BH#1 returned chloride results of 400 mg/kg. This is below the NMOCD limit of 600 mg/kg in the top 4 feet.

Variance Request

Due to the delineation results demonstrating that the impacts have not extended horizontally from the excavated area, and the impacts from the BGT release being contained in the sandstone at a depth of 3' bgs, Roddy Production is requesting a variance on the requirements of NMAC 19.15.29.13 requiring materials in the top 4 feet to be below 600 mg/kg chlorides due to the impacts found during the BGT closure were in sandstone at 3' bgs, and the BGT pit appears to have been dug into the sandstone based on the depth of sandstone found in the surrounding boreholes. Additionally, vegetation in the wellsite area is not likely to establish a root zone as far down as 3' where the elevated chloride levels are present. Vegetation in the area is desert plant life with a shallow root zone typically less than 1 foot below ground surface. Roddy Production is requesting closure on this incident based on the information provided.

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District III
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 199938

CONDITIONS

Operator: RODDY PRODUCTION CO INC 4001 N. BUTLER, BLDG 7101 Farmington, NM 87401	OGRID: 36845
	Action Number: 199938
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Closure request via variance to 19.15.29.13D (1) is approved. Release resolved.	3/28/2023