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	3RP- 1024
Facility ID	
Application ID	

## **Release Notification**

NMOCD DEC 2 0 2018

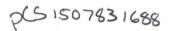
DISTRICT III

)

#### **Responsible Party**

		MI JINI C
Responsible Party	DJR Operating, LLC	OGRID 371838
Contact Name	Amy Archuleta	Contact Telephone 505-632-3476
Contact email	aarchuleta@djrllc.com	Incident # (assigned by OCD) NES 19011 52000
Contact mailing add		

#### Location of Release Source



Latitude 36.43660

Longitude \_\_\_\_\_-108.13783

(NAD 83 in decimal degrees to 5 decimal places)

Site Name CBU Tank Battery	Site Type Tank Battery
Date Release Discovered July 9, 2018	API# (if applicable) NA

Unit Letter	Section	Township	Range	County			
С	5	25N	12W	San Juan			

Surface Owner: State Federal XTribal Private (Name:\_\_\_\_\_

#### Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
x Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
X Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe) Waste Tank	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The origin of the hydrocarbon release at the site is likely from the produced water and condensate tanks previously located at this site.



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

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.
X 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.
accordance with 19.19.29.15 NiviAC including normeation to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy Archuleta	Title: Regulatory Specialist
Signature:	Date: 12-18-18
email: aarchuleta@djrllc.com	Telephone: 505-632-3476
OCD Only	
Received by: CCD	Date: $\sqrt{2} \frac{20}{18}$
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date: 1/11/19
Printed Name:	Title: Environmentel Spec.



December 11, 2018

Amy Archuleta Regulatory Supervisor DJR Operating, LLC 1 Road 3263 Aztec, New Mexico 87410-9521

Sent via electronic mail to: aarchuleta@djrllc.com

RE: Excavation Clearance Report CBU Tank Battery NE¼ NW¼, Section 5, T25N, R12W San Juan County, New Mexico

Dear Ms. Archuleta:

On July 23, August 6, and October 11 and 23, 2018, Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated areas associated with petroleum-contaminated soils at the DJR Operating (DJR) Central Bisti Unit (CBU) Tank Battery release location. Additional contractors completed confirmation sampling on September 6 and November 26, 2018. Confirmation soil samples were collected to monitor the progress of the excavation and to document contaminant source removal where contaminant concentrations were below the applicable New Mexico Oil Conservation Division (NMOCD) action levels. The release consisted of historic contamination discovered during infrastructure removal activities at the location.

#### 1.0 Site Information

#### 1.1 Location

Site Name – Central Bisti Unit (CBU) Tank Battery Legal Description – NE¼ NW¼, Section 5, T25N, R12W, San Juan County, New Mexico Release Latitude/Longitude – N36.43660, W108.13783, respectively Land Jurisdiction – Navajo Nation Allotment Figure 1. Topographic Site Location Map Figure 2. Aerial Site Location Map

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 206 Durango, CO 81301 970-403-3084

animasenvironmental.com

Amy Archuleta CBU Tank Battery Excavation Clearance Report December 11, 2018 Page 2 of 4

#### 1.2 NMOCD Ranking

The DJR CBU Tank Battery is located within Navajo Nation Allotment lands. Navajo Nation Environmental Protection Agency (NNEPA) adheres to action levels for releases and spills as established by the NMOCD.

In accordance with NNEPA release protocols, action levels for the July 2018 release were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of **20** based on the following factors:

- Depth to Groundwater: The location is approximately 70 feet higher than Gallegos Canyon wash. A water well (SJ 01716) in NE¼ SW¼, Section 1 and 84 feet higher detected water at 210 feet. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be between 51 and 100 feet below ground surface. (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash, which ultimately discharges to Gallegos Canyon Wash, is located approximately 230 feet southeast of the location. (10 points)

#### NMOCD Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO).

#### 1.3 Assessment

Field sampling activities, over the course of different sampling events, included collection of 32 confirmation soil samples from the walls and bases of the North Excavation Area and South Excavation Area. The area of the final North Excavation Area measured approximately 191 feet by 95 feet by 6 to 25 feet in depth, and the area of the final South Excavation Area measured approximately 119 feet by 111 feet by 10 to 11 feet in depth. A total of 14,300 cubic yards of soil were excavated and transported to Envirotech Landfarm (NMOCD Permit #NM-01-0011) near Hilltop, New Mexico, and copies of waste disposal documents are attached. Sample locations and final excavation extents are presented on Figure 3, and excavation progress is documented in the attached Photograph Log.

Amy Archuleta CBU Tank Battery Excavation Clearance Report December 11, 2018 Page 3 of 4

#### 2.0 Soil Sampling

#### 2.1 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratorysupplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratories, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico, or Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico. The samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B (August 2018) / 8260B (September through November 2018); and
- TPH as GRO, DRO, MRO per USEPA Method 8015 M/D.

#### 2.2 Laboratory Analytical Results

Laboratory analytical results are summarized on Figure 3, and laboratory analytical reports are attached.

## 3.0 Conclusions and Future Reclamation Activities

#### 3.1 Conclusions

DJR completed excavation of historic contamination at the CBU Tank Battery in November 2018. Approximately 14,300 cubic yards of petroleum contaminated soil were excavated and transported for off-site disposal at an authorized facility.

Final clearance of the excavation areas was completed during multiple sampling events August through November 2018. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples as below NMOCD action levels.

Based on the final laboratory analytical results of the excavation of petroleum contaminated soils at the CBU Tank Battery, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels. No further action, except for reclamation, is recommended.

#### 3.2 Reclamation Activities

DJR backfilled the south excavation area on October 18, 2018, and completed the backfill of the north excavation area on December 10, 2018. The areas were contoured

Amy Archuleta CBU Tank Battery Excavation Clearance Report December 11, 2018 Page 4 of 4

to achieve erosion control and long-term stability per New Mexico Administrative Code (NMAC) 19.15.29.13.

DJR will reseed the disturbed areas no longer needed for production or drilling activities during the first favorable growing season (early Spring 2019). DJR will notify NMOCD upon completion of reseeding activities.

If you have any questions about this report or site conditions, please do not hesitate to contact Tami Knight, Project Lead, or Elizabeth McNally at (505) 564-2281.

Sincerely,

David g Reme

David J. Reese Environmental Scientist

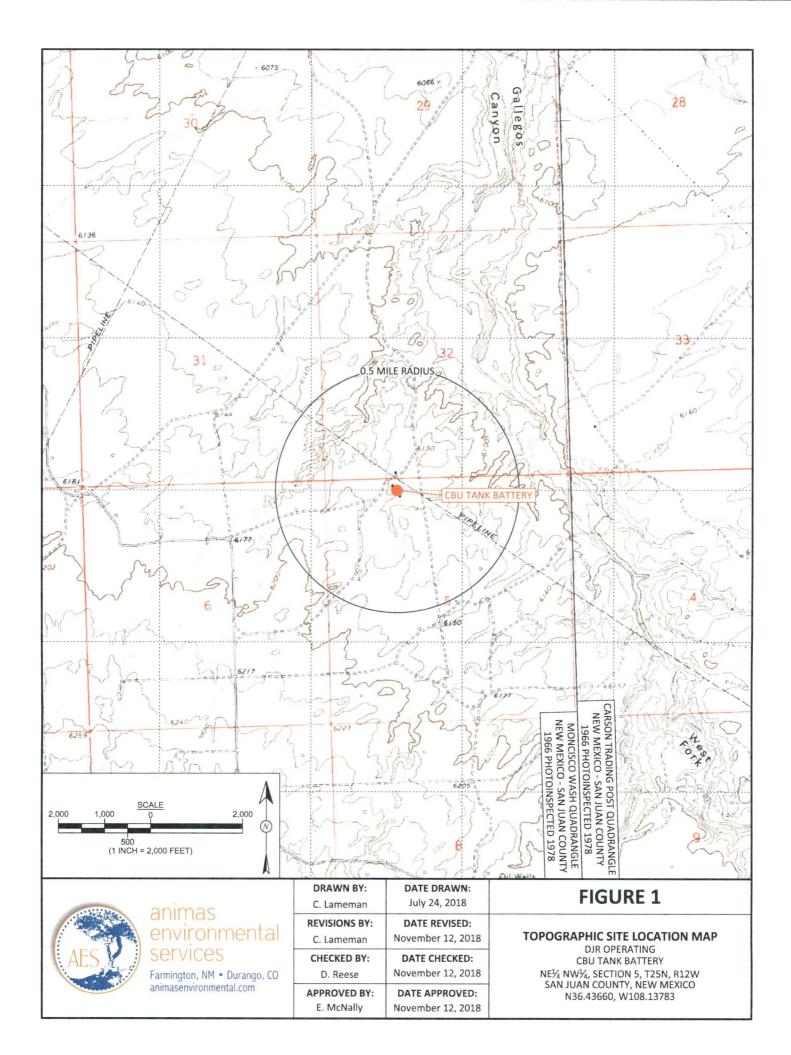
Elizabeth & Merdly

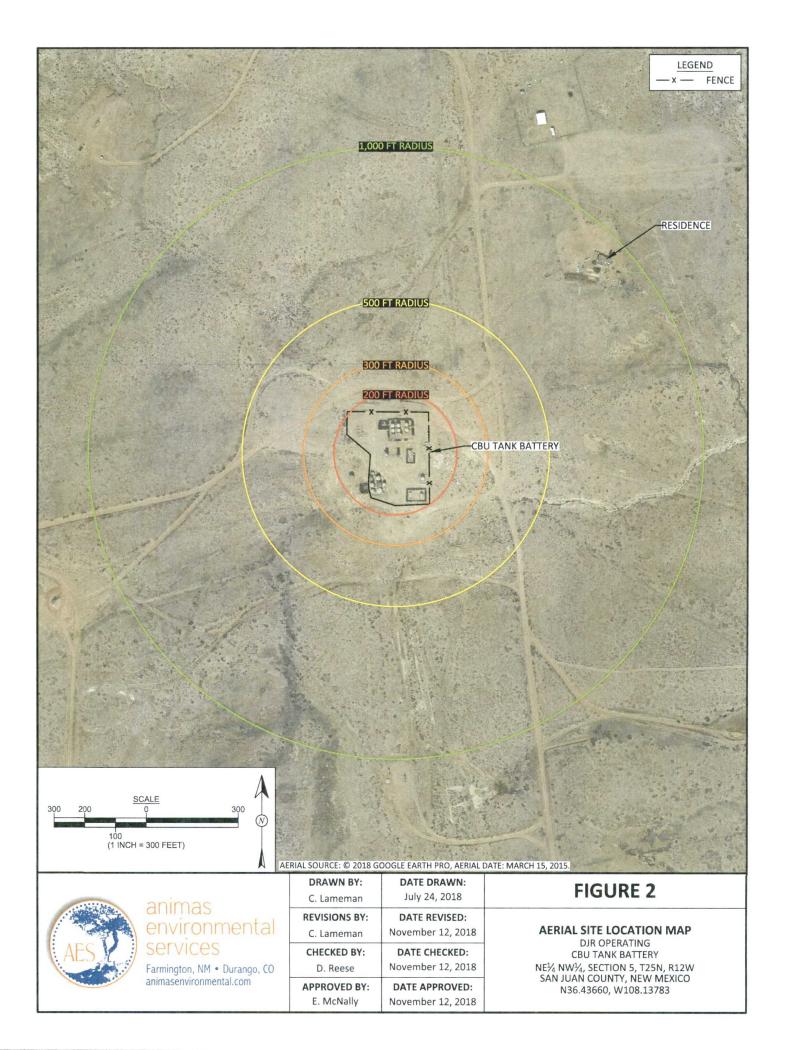
Elizabeth McNally, P.E.

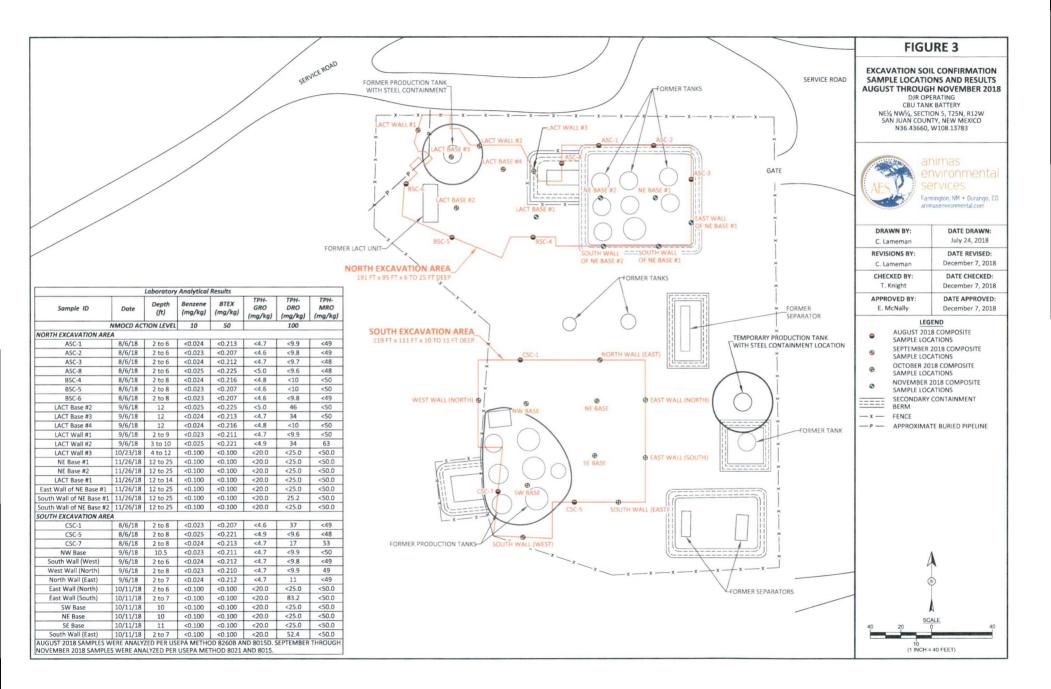
Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map
Figure 3. Excavation Soil Confirmation Sample Locations & Results
Waste Disposal Documentation
Photograph Log
Hall Analytical Reports 1808305, 1808306, 1809374, and 1809377
Envirotech Analytical Reports P810039, P810040, P810109, and P811074

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DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 1: Initial north excavation area. Photo taken July 23, 2018.



Photo 2: Initial LACT excavation area. Photo taken July 23, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 3: Looking east at both the initial LACT and North excavation areas. Photo taken July 23, 2018.



Photo 4: Looking south at the South excavation area. Photo taken July 23, 2018.

#### DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 5: Looking west at the South excavation area. Photo taken July 23, 2018.



Photo 6: North excavation extension area. Photo taken August 13, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations

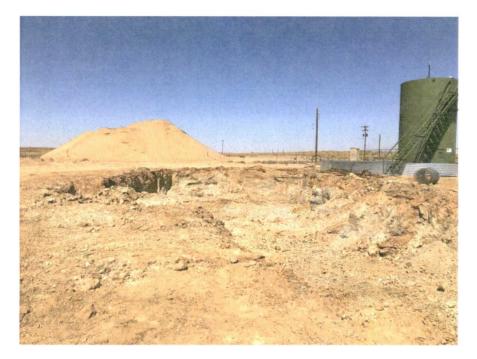


Photo 7: LACT excavation extension area. Photo taken August 13, 2018.



Photo 8: East end of LACT excavation to the west end North excavation area. Photo taken August 13, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 9: South excavation area extension. Photo taken August 13, 2018.



Photo 10: South excavation area extension. Photo taken August 13, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 11: North excavation area extension. Photo taken by Blagg Engineering on September 6, 2018.

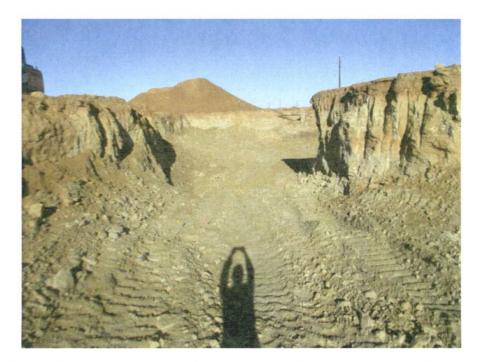


Photo 12: North excavation area connection to the LACT excavation area. Entire excavation now North excavation area. Photo taken by Blagg Engineering on September 6, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 13: LACT area excavation extension. Photo taken by Blagg Engineering on September 6, 2018.



Photo 14: South excavation area extension. Photo taken by Blagg Engineering on September 6, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 15: Final South excavation east half area. West half area back filled. Photo taken October 11, 2018.



Photo 16: Final South excavation SW Base area extension. Photo taken October 11, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 21: South excavation area back filled. Photo taken by DJR Operating on October 18, 2018.



Photo 22: South excavation area back filled. Photo taken by DJR Operating on October 18, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 19: North excavation LACT area. Photo taken October 23, 2018.



Photo 20: South excavation area backfilled. Photo taken October 23, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 17: North excavation area. Photo taken October 23, 2018.



Photo 18: North excavation area. Photo taken October 23, 2018.

DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 23: Final North excavation area. Photo taken by Blagg Engineering on November 26, 2018.

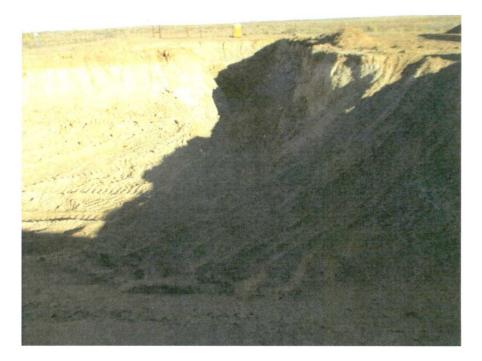


Photo 24: Final North excavation LACT area. Photo taken by Blagg Engineering on November 26, 2018.

#### DJR Operating, LLC CBU Tank Battery Initial and Final Excavations



Photo 25: Final North excavation area. Photo taken by DJR Operating on December 10, 2018.

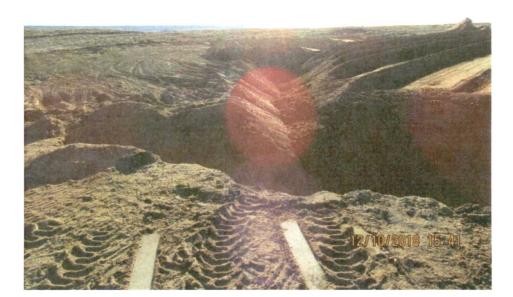


Photo 26: Final North excavation area. Photo taken by DJR Operating on December 10, 2018.



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

August 13, 2018

Tami Knight Animas Environmental Services 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX (505) 324-2022

RE: DJR CBU Tank Battery

OrderNo.: 1808305

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/7/2018 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical	Report
, and y cicar	report

#### Lab Order 1808305

Date Reported: 8/13/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental ServicesProject: DJR CBU Tank BatteryLab ID: 1808305-001	Client Sample ID: BSC-2Collection Date: 8/6/2018 10:17:00 AMMatrix: SOILReceived Date: 8/7/2018 7:00:00 AM						
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE I	RANGE					Analyst	AG
Gasoline Range Organics (GRO)	12	4.9		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Surr: BFB	119	70-130		%Rec	1	8/8/2018 11:11:31 PM	39624
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	180	9.7		mg/Kg	1	8/8/2018 11:12:02 AM	39645
Motor Oil Range Organics (MRO)	180	48		mg/Kg	1	8/8/2018 11:12:02 AM	39645
Surr: DNOP	103	50.6-138		%Rec	1	8/8/2018 11:12:02 AM	39645
EPA METHOD 8260B: VOLATILES SHOP	RT LIST					Analyst	AG
Benzene	ND	0.025		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Toluene	ND	0.049		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Ethylbenzene	ND	0.049		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Xylenes, Total	0.14	0.098		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	8/8/2018 11:11:31 PM	39624
Surr: Toluene-d8	92.8	70-130		%Rec	1	8/8/2018 11:11:31 PM	39624

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: Animas Environmental Servic Project: DJR CBU Tank Battery	es	Client Sample ID: BSC-3 Collection Date: 8/6/2018 10:21:00 AM						
Lab ID: 1808305-002	Matrix: SOIL		Receiv					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D MOD: GASOLINE	ERANGE					Analyst	AG	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 3:56:56 PM	39624	
Surr: BFB	117	70-130		%Rec	1	8/9/2018 3:56:56 PM	39624	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	Irm	
Diesel Range Organics (DRO)	63	9.6		mg/Kg	1	8/8/2018 1:02:24 PM	39645	
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	8/8/2018 1:02:24 PM	39645	
Surr: DNOP	107	50.6-138		%Rec	1	8/8/2018 1:02:24 PM	39645	
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst	AG	
Benzene	ND	0.024		mg/Kg	1	8/8/2018 11:34:34 PM	39624	
Toluene	ND	0.048		mg/Kg	1	8/8/2018 11:34:34 PM	39624	
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2018 11:34:34 PM	39624	
Xylenes, Total	ND	0.096		mg/Kg	1	8/8/2018 11:34:34 PM	39624	
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/8/2018 11:34:34 PM	39624	
Surr: Toluene-d8	98.5	70-130		%Rec	1	8/8/2018 11:34:34 PM	39624	

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1808305

Date Reported: 8/13/2018

2 of 23

## Hall Environmental Analysis Laboratory, Inc.

Analytical	Report
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#### Lab Order 1808305

Date Reported: 8/13/2018

## Hall Environmental Analysis Laboratory, Inc.

<ul><li>CLIENT: Animas Environmental Servic</li><li>Project: DJR CBU Tank Battery</li><li>Lab ID: 1808305-003</li></ul>	es Matrix: SOIL	Collection Date: 8/6/2018 10:29:00 AM					
Analyses	Result	PQL	Qual U	Jnits	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.8	r	ng/Kg	1	8/8/2018 11:57:37 PM	39624
Surr: BFB	113	70-130	Q	%Rec	1	8/8/2018 11:57:37 PM	39624
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	10	r	ng/Kg	1	8/8/2018 1:47:33 PM	39645
Motor Oil Range Organics (MRO)	ND	50	r	ng/Kg	1	8/8/2018 1:47:33 PM	39645
Surr: DNOP	99.1	50.6-138	Q	%Rec	1	8/8/2018 1:47:33 PM	39645
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst:	AG
Benzene	ND	0.024	r	ng/Kg	1	8/8/2018 11:57:37 PM	39624
Toluene	ND	0.048	r	ng/Kg	1	8/8/2018 11:57:37 PM	39624
Ethylbenzene	ND	0.048	r	ng/Kg	1	8/8/2018 11:57:37 PM	39624
Xylenes, Total	ND	0.096	r	ng/Kg	1	8/8/2018 11:57:37 PM	39624
Surr: 4-Bromofluorobenzene	127	70-130	0	%Rec	1	8/8/2018 11:57:37 PM	39624
Surr: Toluene-d8	96.0	70-130	0	%Rec	1	8/8/2018 11:57:37 PM	39624

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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#### Lab Order 1808305

Date Reported: 8/13/2018

## Hall Environmental Analysis Laboratory, Inc.

<ul><li>CLIENT: Animas Environmental Servic</li><li>Project: DJR CBU Tank Battery</li><li>Lab ID: 1808305-004</li></ul>	es Matrix: SOIL	Collection Date: 8/6/2018 10:32:00 AM					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst:	AG	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2018 12:20:33 AM	39624	
Surr: BFB	112	70-130	%Rec	1	8/9/2018 12:20:33 AM	39624	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst:	Irm	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2018 2:09:50 PM	39645	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 2:09:50 PM	39645	
Surr: DNOP	93.7	50.6-138	%Rec	1	8/8/2018 2:09:50 PM	39645	
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst:	AG	
Benzene	ND	0.023	mg/Kg	1	8/9/2018 12:20:33 AM	39624	
Toluene	ND	0.046	mg/Kg	1	8/9/2018 12:20:33 AM	39624	
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2018 12:20:33 AM	39624	
Xylenes, Total	ND	0.092	mg/Kg	1	8/9/2018 12:20:33 AM	39624	
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	8/9/2018 12:20:33 AM	39624	
Surr: Toluene-d8	94.3	70-130	%Rec	1	8/9/2018 12:20:33 AM	39624	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: Animas Environmental Services Project: DJR CBU Tank Battery Lab ID: 1808305-005	Client Sample ID: BSC-6         Collection Date: 8/6/2018 10:36:00 AM         Matrix: SOIL       Received Date: 8/7/2018 7:00:00 AM					
Analyses	Result	PQL	Qual Units		Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE R	ANGE			HU: 3286. 1	Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/9/2018 12:43:42 AM	39624
Surr: BFB	104	70-130	%Rec	1	8/9/2018 12:43:42 AM	39624
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/8/2018 2:31:58 PM	39645
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/8/2018 2:31:58 PM	39645
Surr: DNOP	99.9	50.6-138	%Rec	1	8/8/2018 2:31:58 PM	39645
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst:	AG
Benzene	ND	0.023	mg/Kg	1	8/9/2018 12:43:42 AM	39624
Toluene	ND	0.046	mg/Kg	1	8/9/2018 12:43:42 AM	39624
Ethylbenzene	ND	0.046	mg/Kg	1	8/9/2018 12:43:42 AM	39624
Xylenes, Total	ND	0.092	mg/Kg	1	8/9/2018 12:43:42 AM	39624
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	8/9/2018 12:43:42 AM	39624
Surr: Toluene-d8	94.6	70-130	%Rec	1	8/9/2018 12:43:42 AM	39624

## Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: Animas Environmental Service	ces	Client Sample ID: BSC-7						
Project: DJR CBU Tank Battery		Collection Date: 8/6/2018 10:45:00 AN						
Lab ID: 1808305-006	Matrix: SOIL	<b>Received Date: </b> 8/7/2018 7:00:00				7/2018 7:00:00 AM		
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D MOD: GASOLINE	ERANGE					Analyst	AG	
Gasoline Range Organics (GRO)	160	4.6		mg/Kg	1	8/9/2018 1:06:48 AM	39624	
Surr: BFB	136	70-130	S	%Rec	1	8/9/2018 1:06:48 AM	39624	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	Irm	
Diesel Range Organics (DRO)	3600	99		mg/Kg	10	8/8/2018 3:16:31 PM	39645	
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	8/8/2018 3:16:31 PM	39645	
Surr: DNOP	0	50.6-138	S	%Rec	10	8/8/2018 3:16:31 PM	39645	
EPA METHOD 8260B: VOLATILES SH	ORT LIST					Analyst	AG	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 1:06:48 AM	39624	
Toluene	0.14	0.046		mg/Kg	1	8/9/2018 1:06:48 AM	39624	
Ethylbenzene	0.23	0.046		mg/Kg	1	8/9/2018 1:06:48 AM	39624	
Xylenes, Total	1.9	0.092		mg/Kg	1	8/9/2018 1:06:48 AM	39624	
Surr: 4-Bromofluorobenzene	150	70-130	S	%Rec	1	8/9/2018 1:06:48 AM	39624	
Surr: Toluene-d8	95.4	70-130		%Rec	1	8/9/2018 1:06:48 AM	39624	

Qualifiers: \* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

LIENT: Animas Environmental ServicesClient Sample ID: BSC-8roject: DJR CBU Tank BatteryCollection Date: 8/6/2018 10:4ab ID: 1808305-007Matrix: SOILReceived Date: 8/7/2018 7:00				6/2018 10:48:00 AM		
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	t: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2018 4:20:14 PM	39624
Surr: BFB	122	70-130	%Rec	1	8/9/2018 4:20:14 PM	39624
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	t: Irm
Diesel Range Organics (DRO)	400	10	mg/Kg	1	8/8/2018 3:38:48 PM	39645
Motor Oil Range Organics (MRO)	320	50	mg/Kg	1	8/8/2018 3:38:48 PM	39645
Surr: DNOP	109	50.6-138	%Rec	1	8/8/2018 3:38:48 PM	39645
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	t: AG
Benzene	ND	0.024	mg/Kg	1	8/9/2018 1:29:53 AM	39624
Toluene	ND	0.049	mg/Kg	1	8/9/2018 1:29:53 AM	39624
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2018 1:29:53 AM	39624
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2018 1:29:53 AM	39624
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	8/9/2018 1:29:53 AM	39624
Surr: Toluene-d8	92.6	70-130	%Rec	1	8/9/2018 1:29:53 AM	39624

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808305 Date Reported: 8/13/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services		Clien	t Sample II	): A	SC-1		
Project: DJR CBU Tank Battery		Col	lection Date	e: 8/0	6/2018 11:07:00 AM		
Lab ID: 1808305-008	Matrix: SOIL	Received Date: 8/7/2018 7:00:00 AM					
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	AG	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/9/2018 1:53:02 AM	39639	
Surr: BFB	107	70-130	%Rec	1	8/9/2018 1:53:02 AM	39639	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2018 4:45:53 PM	39645	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/8/2018 4:45:53 PM	39645	
Surr: DNOP	101	50.6-138	%Rec	1	8/8/2018 4:45:53 PM	39645	
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	AG	
Benzene	ND	0.024	mg/Kg	1	8/9/2018 1:53:02 AM	39639	
Toluene	ND	0.047	mg/Kg	1	8/9/2018 1:53:02 AM	39639	
Ethylbenzene	ND	0.047	mg/Kg	1	8/9/2018 1:53:02 AM	39639	
Xylenes, Total	ND	0.095	mg/Kg	1	8/9/2018 1:53:02 AM	39639	
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	8/9/2018 1:53:02 AM	39639	
Surr: Toluene-d8	96.6	70-130	%Rec	1	8/9/2018 1:53:02 AM	39639	

**Oualifiers:** 

\* 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 23 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

	Cli	ient Sample II	): AS	SC-2			
Collection Date: 8/6/2018 11:09:00 AM							
Matrix: SOIL	Received Date: 8/7/2018 7:00:00 AM						
Result	PQL	Qual Units	DF	Date Analyzed	Batch		
ANGE				Analyst	AG		
ND	4.6	mg/Kg	1	8/9/2018 3:02:21 AM	39639		
115	70-130	%Rec	1	8/9/2018 3:02:21 AM	39639		
ORGANICS				Analyst	Irm		
ND	9.8	mg/Kg	1	8/8/2018 5:30:07 PM	39645		
ND	49	mg/Kg	1	8/8/2018 5:30:07 PM	39645		
98.1	50.6-138	%Rec	1	8/8/2018 5:30:07 PM	39645		
T LIST				Analyst	AG		
ND	0.023	mg/Kg	1	8/9/2018 3:02:21 AM	39639		
ND	0.046	mg/Kg	1	8/9/2018 3:02:21 AM	39639		
ND	0.046	mg/Kg	1	8/9/2018 3:02:21 AM	39639		
ND	0.092	mg/Kg	1	8/9/2018 3:02:21 AM	39639		
130	70-130	%Rec	1	8/9/2018 3:02:21 AM	39639		
91.7	70-130	%Rec	1	8/9/2018 3:02:21 AM	39639		
	Result ANGE ND 115 ORGANICS ND 98.1 T LIST ND	Matrix:         SOIL           Result         PQL           ANGE         115         70-130           ORGANICS         115         70-130           ORGANICS         ND         4.6           ND         9.8         ND           98.1         50.6-138         150.6-138           T LIST         ND         0.023           ND         0.046         ND         0.046           ND         0.092         130         70-130	ND         4.6         mg/Kg           115         70-130         %Rec           ORGANICS         ND         4.9         mg/Kg           ND         9.8         mg/Kg         98.1         50.6-138         %Rec           T LIST         ND         0.023         mg/Kg         ND         0.046         mg/Kg           ND         0.046         mg/Kg         130         70-130         %Rec         70.7130 </td <td>ND         4.6         mg/Kg         1           ORGANICS         ND         4.6         mg/Kg         1           ND         4.6         mg/Kg         1           ORGANICS         ND         4.9         mg/Kg         1           ND         9.8         mg/Kg         1         98.1         50.6-138         %Rec         1           T LIST         ND         0.023         mg/Kg         1         <th1< th=""></th1<></td> <td>Matrix: SOIL         Received Date: 8/7/2018 7:00:00 AM           Result         PQL         Qual         Units         DF         Date Analyzed           ANGE         Analyst         Analyst         Analyst         Analyst           115         70-130         %Rec         1         8/9/2018 3:02:21 AM           0RGANICS         Analyst         Analyst           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         49         mg/Kg         1         8/8/2018 5:30:07 PM           ND         49         mg/Kg         1         8/8/2018 5:30:07 PM           98.1         50.6-138         %Rec         1         8/8/2018 5:30:07 PM           ND         0.023         mg/Kg         1         8/8/2018 5:30:07 PM           ND         0.023         mg/Kg         1         8/9/2018 3:02:21 AM           ND         0.046         mg/Kg         1         8/9/2018 3:02:21 AM           ND         0.046         mg/Kg         1         8/9/2018 3:02:21 AM</td>	ND         4.6         mg/Kg         1           ORGANICS         ND         4.6         mg/Kg         1           ND         4.6         mg/Kg         1           ORGANICS         ND         4.9         mg/Kg         1           ND         9.8         mg/Kg         1         98.1         50.6-138         %Rec         1           T LIST         ND         0.023         mg/Kg         1 <th1< th=""></th1<>	Matrix: SOIL         Received Date: 8/7/2018 7:00:00 AM           Result         PQL         Qual         Units         DF         Date Analyzed           ANGE         Analyst         Analyst         Analyst         Analyst           115         70-130         %Rec         1         8/9/2018 3:02:21 AM           0RGANICS         Analyst         Analyst           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         9.8         mg/Kg         1         8/8/2018 5:30:07 PM           ND         49         mg/Kg         1         8/8/2018 5:30:07 PM           ND         49         mg/Kg         1         8/8/2018 5:30:07 PM           98.1         50.6-138         %Rec         1         8/8/2018 5:30:07 PM           ND         0.023         mg/Kg         1         8/8/2018 5:30:07 PM           ND         0.023         mg/Kg         1         8/9/2018 3:02:21 AM           ND         0.046         mg/Kg         1         8/9/2018 3:02:21 AM           ND         0.046         mg/Kg         1         8/9/2018 3:02:21 AM		

# Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT:	Animas Environmental Services									
Project:	DJR CBU Tank Battery	Collection Date: 8/6/2018 11:11:00 AM								
Lab ID:	1808305-010	Matrix: SOIL	Received Date: 8/7/2018 7:00:00 AM							
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8015D MOD: GASOLINE R	ANGE					Analyst:	AG		
Gasoline	Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 4:11:45 AM	39639		
Surr: E	3FB	116	70-130		%Rec	1	8/9/2018 4:11:45 AM	39639		
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	Irm		
Diesel Ra	ange Organics (DRO)	ND	9.7		mg/Kg	1	8/8/2018 6:14:31 PM	39645		
Motor Oil	I Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2018 6:14:31 PM	39645		
Surr: E	ONOP	106	50.6-138		%Rec	1	8/8/2018 6:14:31 PM	39645		
EPA MET	HOD 8260B: VOLATILES SHOR	T LIST					Analyst:	AG		
Benzene		ND	0.024		mg/Kg	1	8/9/2018 4:11:45 AM	39639		
Toluene		ND	0.047		mg/Kg	1	8/9/2018 4:11:45 AM	39639		
Ethylben	zene	ND	0.047		mg/Kg	1	8/9/2018 4:11:45 AM	39639		
Xylenes,	Total	ND	0.094		mg/Kg	1	8/9/2018 4:11:45 AM	39639		
Surr: 4	4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 4:11:45 AM	39639		
Surr: 1	Toluene-d8	90.4	70- <mark>1</mark> 30		%Rec	1	8/9/2018 4:11:45 AM	39639		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808305 Date Reported: 8/13/2018

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental ServiceProject:DJR CBU Tank BatteryLab ID:1808305-011	ices Client Sample ID: ASC-4 Collection Date: 8/6/2018 11:13:00 A Matrix: SOIL Received Date: 8/7/2018 7:00:00 AN					
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2018 4:34:40 AM	39639
Surr: BFB	110	70-130	%Rec	1	8/9/2018 4:34:40 AM	39639
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2018 6:58:53 PM	39645
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 6:58:53 PM	39645
Surr: DNOP	104	50.6-138	%Rec	1	8/8/2018 6:58:53 PM	39645
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst:	AG
Benzene	ND	0.024	mg/Kg	1	8/9/2018 4:34:40 AM	39639
Toluene	ND	0.048	mg/Kg	1	8/9/2018 4:34:40 AM	39639
Ethylbenzene	ND	0.048	mg/Kg	1	8/9/2018 4:34:40 AM	39639
Xylenes, Total	ND	0.097	mg/Kg	1	8/9/2018 4:34:40 AM	39639
Surr: 4-Bromofluorobenzene	124	70-130	%Rec	1	8/9/2018 4:34:40 AM	39639
Surr: Toluene-d8	92.6	70-130	%Rec	1	8/9/2018 4:34:40 AM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

<b>Analytical Report</b>	
Lab Order 1808305	

Batch

39639 39639

39645

39645

39645

39639

39639

39639

39639

39639

39639

Analyst: AG

#### Date Reported: 8/13/2018

8/8/2018 8:27:30 PM

8/8/2018 8:27:30 PM

8/8/2018 8:27:30 PM

8/9/2018 4:57:49 AM

#### Hall Environmental Analysis Laboratory, Inc.

Diesel Range Organics (DRO)

Surr: DNOP

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: Toluene-d8

Motor Oil Range Organics (MRO)

Surr: 4-Bromofluorobenzene

EPA METHOD 8260B: VOLATILES SHORT LIST

CLIENT:	Animas Environmental Service	rvices Client Sample ID: ASC-5							
<b>Project:</b>	DJR CBU Tank Battery		Collection Date: 8/6/2018 11:18:00 AM						
Lab ID:	1808305-012	Matrix: SOIL Received Date: 8/7/2018 7:00:00 AM							
Analyses		Result	PQL Q	Qual Units	DF	Date Analyzed	Batcl		
EPA MET	THOD 8015D MOD: GASOLINE	RANGE				Analyst	AG		
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2018 4:57:49 AM	39639		
Surr: E	BFB	113	70-130	%Rec	1	8/9/2018 4:57:49 AM	3963		
EPA MET	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: In								

12

ND

92.8

ND

ND

ND

ND

127

91.9

10

50

50.6-138

0.025

0.050

0.050

0.099

70-130

70-130

mg/Kg

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

%Rec

1

1

1

1

1

1

1

1

1

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 12 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT:	Animas Environmental Service	S	Clie	ent Sample ID	: AS	SC-6		
Project:	DJR CBU Tank Battery		С	ollection Date	: 8/0	5/2018 11:20:00 AM		
Lab ID:	1808305-013	I	Received Date	Received Date: 8/7/2018 7:00:00 AM				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METH	HOD 8015D MOD: GASOLINE	RANGE				Analys	t: AG	
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	8/9/2018 5:20:46 AM	39639	
Surr: B	FB	114	70-130	%Rec	1	8/9/2018 5:20:46 AM	39639	
EPA METH	HOD 8015M/D: DIESEL RANG	EORGANICS				Analyst	t: Irm	
Diesel Ra	nge Organics (DRO)	34	10	mg/Kg	1	8/8/2018 9:33:56 PM	39645	
Motor Oil	Range Organics (MRO)	66	50	mg/Kg	1	8/8/2018 9:33:56 PM	39645	
Surr: D	NOP	101	50.6-138	%Rec	1	8/8/2018 9:33:56 PM	39645	
EPA METH	HOD 8260B: VOLATILES SHO	RT LIST				Analyst	AG	
Benzene		ND	0.025	mg/Kg	1	8/9/2018 5:20:46 AM	39639	
Toluene		ND	0.050	mg/Kg	1	8/9/2018 5:20:46 AM	39639	
Ethylbenz	ene	ND	0.050	mg/Kg	1	8/9/2018 5:20:46 AM	39639	
Xylenes,	Fotal	ND	0.10	mg/Kg	1	8/9/2018 5:20:46 AM	39639	
Surr: 4-	Bromofluorobenzene	128	70-130	%Rec	1	8/9/2018 5:20:46 AM	39639	
Surr: To	oluene-d8	96.4	70-130	%Rec	1	8/9/2018 5:20:46 AM	39639	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Children	Animas Environmental Services DJR CBU Tank Battery 1808305-014	Matrix: SOIL			te: 8/	SC-7 6/2018 11:45:00 AM 7/2018 7:00:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 8015D MOD: GASOLINE R	ANGE				Analys	t: AG
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/9/2018 5:43:55 AM	39639
Surr: B		112	70-130	%Rec	1	8/9/2018 5:43:55 AM	39639
EPA METI	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: Irm
Diesel Ra	inge Organics (DRO)	200	9.8	mg/Kg	1	8/8/2018 10:40:21 PM	39645
Motor Oil	Range Organics (MRO)	160	49	mg/Kg	1	8/8/2018 10:40:21 PM	39645
Surr: D	NOP	118	50.6-138	%Rec	1	8/8/2018 10:40:21 PM	39645
EPA MET	HOD 8260B: VOLATILES SHOR	T LIST				Analyst	t: AG
Benzene		ND	0.024	mg/Kg	1	8/9/2018 5:43:55 AM	39639
Toluene		ND	0.048	mg/Kg	1	8/9/2018 5:43:55 AM	39639
Ethylbenz	ene	ND	0.048	mg/Kg	1	8/9/2018 5:43:55 AM	39639
Xylenes,	Total	ND	0.097	mg/Kg	1	8/9/2018 5:43:55 AM	39639
Surr: 4-	-Bromofluorobenzene	126	70-130	%Rec	1	8/9/2018 5:43:55 AM	39639
Surr: T	oluene-d8	96.5	70-130	%Rec	1	8/9/2018 5:43:55 AM	39639

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808305 Date Reported: 8/13/2018

### Hall Environmental Analysis Laboratory, Inc.

Analytical	Report
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#### Lab Order 1808305

Date Reported: 8/13/2018

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services			ient Sai	-		SC-8 5/2018 11:48:00 AM	
Project:DJR CBU Tank BatteryLab ID:1808305-015	Matrix: SOIL					7/2018 7:00:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE R	ANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Surr: BFB	115	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/8/2018 11:46:40 PM	39645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2018 11:46:40 PM	39645
Surr: DNOP	62.9	50.6-138		%Rec	1	8/8/2018 11:46:40 PM	39645
EPA METHOD 8260B: VOLATILES SHOR	T LIST					Analyst:	AG
Benzene	ND	0.025		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Toluene	ND	0.050		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639
Surr: Toluene-d8	96.8	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 15 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: Project:	Animas Environmental Service DJR CBU Tank Battery	es			ample II ion Dat		SC-9 5/2018 11:49:00 AM	
Lab ID:	1808305-016	Matrix: SOIL		Recei	ved Dat	e: 8/7	7/2018 7:00:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8015D MOD: GASOLINE	RANGE					Analyst	AG
Gasoline	Range Organics (GRO)	20	4.8		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Surr: E	3FB	128	70-130		%Rec	1	8/9/2018 6:16:26 PM	39639
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	Irm
Diesel R	ange Organics (DRO)	450	9.8		mg/Kg	1	8/9/2018 12:31:08 AM	39645
Motor Oi	I Range Organics (MRO)	320	49		mg/Kg	1	8/9/2018 12:31:08 AM	39645
Surr: [	ONOP	86.4	50.6-138		%Rec	1	8/9/2018 12:31:08 AM	39645
EPA MET	HOD 8260B: VOLATILES SHO	ORT LIST					Analyst	AG
Benzene		ND	0.024		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Toluene		ND	0.048		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Ethylben	zene	ND	0.048		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Xylenes,	Total	ND	0.097		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Surr: 4	4-Bromofluorobenzene	142	70-130	S	%Rec	1	8/9/2018 6:16:26 PM	39639
Surr: 7	Toluene-d8	92.2	70-130		%Rec	1	8/9/2018 6:16:26 PM	39639

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Qualifiers:

H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
  - Analyte detected below quantitation limits Page 16 of 23 J
  - Р Sample pH Not In Range
  - RL Reporting Detection Limit
  - W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1808305 Date Reported: 8/13/2018

<b>CLIENT:</b> Animas Environmental Services		Cl	ient Sa	mple II	D: AS	SC-10	
Project: DJR CBU Tank Battery		(	Collect	ion Dat	e: 8/6	5/2018 11:51:00 AM	
Lab ID: 1808305-017	Matrix: SOIL		Receiv	ved Dat	e: 8/7	7/2018 7:00:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE F	ANGE					Analyst	AG
Gasoline Range Organics (GRO)	10	4.8		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Surr: BFB	118	70-130		%Rec	1	8/9/2018 6:39:41 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	570	9.6		mg/Kg	1	8/9/2018 1:37:42 AM	39645
Motor Oil Range Organics (MRO)	320	48		mg/Kg	1	8/9/2018 1:37:42 AM	39645
Surr: DNOP	100	50.6-138		%Rec	1	8/9/2018 1:37:42 AM	39645
EPA METHOD 8260B: VOLATILES SHOR	RT LIST					Analyst	AG
Benzene	ND	0.024		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 6:39:41 PM	<mark>396</mark> 39
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	1	8/9/2018 6:39:41 PM	39639
Surr: Toluene-d8	98.7	70-130		%Rec	1	8/9/2018 6:39:41 PM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 17 of 23
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

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Analytical Report Lab Order 1808305

Date Reported: 8/13/2018

Animas Environmental Services

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Project: DJR CB	U Tank Battery								
Sample ID MB-39645	SampType:	MBLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID:	39645	F	RunNo: 5	3283				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	S	SeqNo: 1	753765	Units: mg/M	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	0							
Motor Oil Range Organics (MRO)	ND 5	0							
Surr: DNOP	8.7	10.00		87.2	50.6	138			
Sample ID LCS-39645	SampType: I	_CS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	39645	F	RunNo: 5	3283				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	S	SeqNo: 1	753983	Units: mg/M	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47 1	0 50.00	0	95.0	70	130			
Surr: DNOP	3.9	5.000		78.8	50.6	138			
Sample ID 1808305-001AMS	SampType:	NS	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BSC-2	Batch ID:	39645	F	RunNo: 5	3283				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	S	SeqNo: 1	754183	Units: mg/M	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	230 1	0 49.75	179.1	111	53.5	126			
Surr: DNOP	5.3	4.975		107	50.6	138			
Sample ID 1808305-001AMS	D SampType: I	MSD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BSC-2	Batch ID:	39645	F	RunNo: 5	3283				
Prep Date: 8/7/2018	Analysis Date:	8/8/2018	5	SeqNo: 1	754459	Units: mg/K	ζg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	210 9.	8 49.16	179.1	64.5	53.5	126	10.6	21.7	

Qualifiers:

Surr: DNOP

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range

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50.6

138

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

Р

W Sample container temperature is out of limit as specified 1808305

WO#:

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Page 18 of 23

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#### Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID	1808305-009ams	SampT	Type: MS	54	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	ASC-2		h ID: 39			RunNo: 5					
Prep Date:		Analysis D				SeqNo: 1		Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.024	0.9597	0	96.9	80	120			
Toluene		1.0	0.048	0.9597	0.007329	108	80	120			
Ethylbenzene		1.1	0.048	0.9597	0	112	82	121			
Xylenes, Total		3.2	0.096	2.879	0.02174	111	80.2	120			
Surr: 4-Brom	nofluorobenzene	0.56		0.4798		116	70	130			
Surr: Toluen	e-d8	0.45		0.4798		93.8	70	130			
Sample ID	1808305-009amsd	I Samp1	Гуре: МS	SD4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	ASC-2	Batch	h ID: 39	639	F	RunNo: 5	3308				
Prep Date:	8/7/2018	Analysis D	Date: 8/	9/2018	S	SeqNo: 1	755221	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.023	0.9372	0	92.4	80	120	7.13	20	
Toluene		0.94	0.047	0.9372	0.007329	99.8	80	120	9.96	20	
Ethylbenzene		1.0	0.047	0.9372	0	110	82	121	3.99	20	
Xylenes, Total		3.0	0.094	2.812	0.02174	105	80.2	120	8.46	20	
Surr: 4-Brom	nofluorobenzene	0.54		0.4686		115	70	130	0	0	
Surr: Toluen	e-d8	0.42		0.4686		90.5	70	130	0	0	
Sample ID	lcs-39624	SampT	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	BatchQC	Batch	h ID: 39	624	F	RunNo: 5	3308				
Prep Date:	8/7/2018	Analysis D	Date: 8/	8/2018	S	SeqNo: 1	755228	Units: mg/M	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	91.6	80	120			
Toluene		1.0	0.050	1.000	0	101	80	120			
Ethylbenzene		1.0	0.050	1.000	0	105	80	120			
Xylenes, Total		3.1	0.10	3.000	0	105	80	120			
Surr: 4-Brom	nofluorobenzene	0.56		0.5000		113	70	130			
Surr: Toluen	e-d8	0.46		0.5000		92.4	70	130			
Sample ID	lcs-39639	SampT	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
oumpic ib	BatchQC	Batch	h ID: 39	639	F	anNo: 5	3308				
	Batoria			0/2040	S	eqNo: 1	755229	Units: mg/K	(g		
		Analysis D	Date: 8/	8/2018							
Client ID:		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte							LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Client ID: Prep Date:		Result	PQL	SPK value	SPK Ref Val	%REC			%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		Result 0.88	PQL 0.025	SPK value 1.000	SPK Ref Val 0	%REC 88.3	80	120	%RPD	RPDLimit	Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 19 of 23

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1808305

#### Animas Environmental Services **Client:**

**Project:** DJR CBU Tank Battery

Sample ID Ics-39639	SampType: LCS4	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: BatchQC	Batch ID: 39639	RunNo: 53308		
Prep Date: 8/7/2018	Analysis Date: 8/8/2018	SeqNo: 1755229	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Surr: 4-Bromofluorobenzene	0.58 0.5000	117 70	130	
Surr: Toluene-d8	0.45 0.5000	90.9 70	130	
Sample ID mb-39624	SampType: MBLK	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: PBS	Batch ID: 39624	RunNo: 53308		
Prep Date: 8/7/2018	Analysis Date: 8/8/2018	SeqNo: 1755230	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Benzene	ND 0.025			
Toluene	ND 0.050			
Ethylbenzene	ND 0.050			
Xylenes, Total	ND 0.10			
Surr: 4-Bromofluorobenzene	0.63 0.5000	126 70	130	
Surr: Toluene-d8	0.47 0.5000	93.3 70	130	
Sample ID mb-39639	SampType: MBLK	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: PBS	Batch ID: 39639	RunNo: 53308		
Prep Date: 8/7/2018	Analysis Date: 8/8/2018	SeqNo: 1755231	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Benzene	ND 0.025			
Toluene	ND 0.050			
Ethylbenzene	ND 0.050			
Xylenes, Total	ND 0.10			
Surr: 4-Bromofluorobenzene	0.65 0.5000	130 70	130 S	
Surr: Toluene-d8	0.48 0.5000	96.4 70	130	
Sample ID Ics-39659	SampType: LCS4	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: BatchQC	Batch ID: 39659	RunNo: 53327		
Prep Date: 8/8/2018	Analysis Date: 8/10/2018	SeqNo: 1756110	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Surr: 4-Bromofluorobenzene	0.58 0.5000	117 70	130	
Surr: Toluene-d8	0.48 0.5000	95.8 70	130	
Sample ID mb-39659	SampType: MBLK	TestCode: EPA Method	8260B: Volatiles Short List	
Client ID: PBS	Batch ID: 39659	RunNo: 53327		
Prep Date: 8/8/2018	Analysis Date: 8/10/2018	SeqNo: 1756111	Units: %Rec	
		SeqNo: 1756111 SPK Ref Val %REC LowLimit		al

#### Qualifiers:

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

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Р
  - Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 20 of 23

WO#: 1808305

#### Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID mb-39659	SampType:	MBLK	Test	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch ID:	39659	R	unNo: 5	3327				
Prep Date: 8/8/2018	Analysis Date:	8/10/2018	S	eqNo: 1	756111	Units: %Red	2		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.65	0.5000		130	70	130			
Surr: Toluene-d8	0.47	0.5000		93.6	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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: **1808305** 

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Page 21 of 23

#### Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755069         Units:         mg/Kg           Analyte         Result         PQL         SPK value	Client ID:	1808305-008ams	SampTy	pe: MS	S	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range	
Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.7         23.30         2.284         96.7         64.7         142           Surr. BFB         480         466.0         103         70         130           Sample ID         1808305-008amsd         SampType:         MSD         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         87/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0         0 <tr< td=""><td></td><td>ASC-1</td><td>Batch I</td><td>D: 39</td><td>639</td><td>R</td><td>unNo: 5</td><td>3308</td><td></td><td></td><td></td><td></td></tr<>		ASC-1	Batch I	D: 39	639	R	unNo: 5	3308				
Gasoline Range Organics (GR0)         25         4.7         23.30         2.284         96.7         64.7         142           Surr. BFB         480         466.0         103         70         130           Sample ID         1808305-008amsd         SampType:         MSD         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GR0)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID: <t< td=""><td>Prep Date:</td><td>8/7/2018</td><td>Analysis Da</td><td>te: 8/</td><td>/9/2018</td><td>S</td><td>eqNo: 1</td><td>755069</td><td>Units: mg/k</td><td>(g</td><td></td><td></td></t<>	Prep Date:	8/7/2018	Analysis Da	te: 8/	/9/2018	S	eqNo: 1	755069	Units: mg/k	(g		
Surr. BFB         480         466.0         103         70         130           Sample ID         1808305-008amsd         SampType:         MSD         TestCode:         EPA Method 8015D         Mod:         Gasoline Range           Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D         Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308         Units:         mg/Kg           Analyte         Re	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID         1808305-008amsd         SampType:         MSD         TestCode:         EPA Method         8015D         Mod:         Gasoline Range           Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         Units:         mg/Kg           Analyte	0	e Organics (GRO)		4.7		2.284						
Client ID:         ASC-1         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Sur: BFB         480         458.3         104         70         130         0         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPLimit         Qual	Surr: BFB		480		466.0		103	70	130			
Prep Date:         8/7/2018         Analysis Date:         8/9/2018         SeqNo:         1755070         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GR0)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GR0)         26         5.0         25.00         0         104         70<	Sample ID	1808305-008amsd	SampTy	pe: MS	SD	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range	
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         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           Sample ID         Ics-39639         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Ga	Client ID:	ASC-1	Batch I	D: 39	639	R	unNo: 5	3308				
Gasoline Range Organics (GRO)         25         4.6         22.91         2.284         99.6         64.7         142         1.11         20           Surr: BFB         480         458.3         104         70         130         0         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D         Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         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         530         500.0         105         70         130         105         130           Sample ID         Ics-39639         SampType:         LCS         TestCode:         EPA Method 8015D         Mod: Gasoline Range           Client ID:<	Prep Date:	8/7/2018	Analysis Da	te: 8/	9/2018	S	eqNo: 1	755070	Units: mg/M	(g		
Surr: BFB         480         458.3         104         70         130         0         0           Sample ID         Ics-39624         SampType:         LCS         TestCode:         EPA Method 8015D         Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39624         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755078         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         530         500.0         105         70         130             Sample ID         Ics-39639         SampType:         LCS         TestCode:         EPA Method 8015D         Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         39639         RunNo:         53308              Prep Date:         8/7/2018         Analy	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID       Ics-39624       SampType:       LCS       TestCode:       EPA Method 8015D       Mod:       Gasoline Range         Client ID:       LCSS       Batch ID:       39624       RunNo:       53308         Prep Date:       8/7/2018       Analysis Date:       8/8/2018       SeqNo:       1755078       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GR0)       26       5.0       25.00       0       104       70       130         Surr: BFB       530       500.0       105       70       130           Sample ID       Ics-39639       SampType:       LCS       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       LCSS       Batch ID:       39639       RunNo:       53308          Prep Date:       8/7/2018       Analysis Date:       8/8/2018       SeqNo:       1755079       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDL	Gasoline Rang	e Organics (GRO)	25	4.6	22.91	2.284	99.6	64.7	142	1.11	20	
Client ID:LCSSBatch ID:39624RunNo:53308Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755078Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)265.025.00010470130Surr: BFB530500.010570130Sample IDIcs-39639SampType:LCSTestCode:EPA Method 8015D Mod:Gasoline RangeClient ID:LCSSBatch ID:39639RunNo:53308Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755079Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)265.025.0001067013030Surr: BFB530500.010670130303030Sample IDmb-39624SampType:MBLKTestCode:EPA Method 8015D Mod:Gasoline Range	Surr: BFB		480		458.3		104	70	130	0	0	
Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755078Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GR0)265.025.00010470130130130Surr: BFB530500.010570130130130130130130Sample IDIcs-39639SampType:LCSTestCode:EPA Method 8015D Mod:Gasoline RangeClient ID:LCSSBatch ID:39639RunNo:53308Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755079Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GR0)265.025.00010670130130Surr: BFB530500.010670130130130130Sample IDmb-39624SampType:MBLKTestCode:EPA Method 8015D Mod:Gasoline RangeSample IDmb-39624SampType:MBLKTestCode:EPA Method 8015D Mod:Gasoline Range	Sample ID	lcs-39624	SampTy	pe: LC	s	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range	
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)265.025.00010470130Surr: BFB530500.010570130Sample IDIcs-39639SampType:LCSTestCode:EPA Method 8015D Mod:Gasoline RangeClient ID:LCSSBatch ID:39639RunNo:53308Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755079Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)265.025.00010670130130130Sample IDmb-39624SampType:MBLKTestCode:EPA Method 8015D Mod:Gasoline Range	Client ID:	LCSS	Batch I	D: 39	624	R	unNo: 5	3308				
Gasoline Range Organics (GRO)         26         5.0         25.00         0         104         70         130           Surr: BFB         530         500.0         105         70         130           Sample ID         Ics-39639         SampType: LCS         TestCode: EPA Method 8015D Mod: Gasoline Range           Client ID:         LCSS         Batch ID:         39639         RunNo:         53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755079         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         106         70         130           Surr: BFB         530         500.0         106         70         130             Sample ID         mb-39624         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range	Prep Date:	8/7/2018	Analysis Da	te: 8/	/8/2018	S	eqNo: 1	755078	Units: mg/k	(g		
Surr: BFB         530         500.0         105         70         130           Sample ID         Ics-39639         SampType: LCS         TestCode: EPA Method 8015D Mod: Gasoline Range           Client ID:         LCSS         Batch ID: 39639         RunNo: 53308           Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo: 1755079         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         106         70         130           Surr: BFB         530         500.0         106         70         130             Sample ID         mb-39624         SampType:         MBLK         TestCode:         EPA Method 8015D Mod: Gasoline Range	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample IDIcs-39639SampType:LCSTestCode:EPA Method8015DMod:Gasoline RangeClient ID:LCSSBatch ID:39639RunNo:53308Prep Date:8/7/2018Analysis Date:8/8/2018SeqNo:1755079Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)265.025.0001067013030Surr: BFB530500.01067013030303030Sample IDmb-39624SampType:MBLKTestCode:EPA Method 8015DMod:Gasoline Range	Gasoline Rang	e Organics (GRO)	26	5.0	25.00	0	104	70	130			
Client ID:       LCSS       Batch ID:       39639       RunNo:       53308         Prep Date:       8/7/2018       Analysis Date:       8/8/2018       SeqNo:       1755079       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       106       70       130         Surr: BFB       530       500.0       106       70       130       Image: Code:       EPA Method 8015D Mod: Gasoline Range	Surr: BFB		530		500.0		105	70	130			
Prep Date:       8/7/2018       Analysis Date:       8/8/2018       SeqNo::       1755079       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       106       70       130         Surr: BFB       530       500.0       106       70       130       130       130         Sample ID       mb-39624       SampType:       MBLK       TestCode:       EPA Method 8015D Mod:       Gasoline Range	Sample ID	lcs-39639	SampTy	pe: LC	s	Test	Code: E	PA Method	8015D Mod:	Gasoline	Range	
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       26       5.0       25.00       0       106       70       130         Surr: BFB       530       500.0       106       70       130       130         Sample ID       mb-39624       SampType:       MBLK       TestCode:       EPA Method 8015D Mod:       Gasoline Range				D. 00	620	R	unNo: 5	3308				
Gasoline Range Organics (GRO)         26         5.0         25.00         0         106         70         130           Surr: BFB         530         500.0         106         70         130           Sample ID mb-39624         SampType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range	Client ID:	LCSS	Batch I	D: 39	039	1.		0000				
Surr: BFB         530         500.0         106         70         130           Sample ID mb-39624         SampType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range									Units: mg/M	(g		
Sample ID mb-39624     SampType: MBLK     TestCode: EPA Method 8015D Mod: Gasoline Range	Prep Date:		Analysis Da	te: 8/	/8/2018	S	eqNo: 1	755079			RPDLimit	Qual
	Prep Date: Analyte Gasoline Rang	8/7/2018	Analysis Da Result 26	te: <b>8</b> / PQL	/8/2018 SPK value 25.00	S SPK Ref Val	eqNo: 1 %REC 106	755079 LowLimit 70	HighLimit 130		RPDLimit	Qual
Client ID: PBS Batch ID: 39624 RunNo: 53308	Prep Date: Analyte Gasoline Rang	8/7/2018	Analysis Da Result 26	te: <b>8</b> / PQL	/8/2018 SPK value 25.00	S SPK Ref Val	eqNo: 1 %REC 106	755079 LowLimit 70	HighLimit 130		RPDLimit	Qual
Cicital Battino, 33024 Italino, 3300	Prep Date: Analyte Gasoline Rang Surr: BFB	8/7/2018 e Organics (GRO)	Analysis Da Result 26 530	te: 8/ PQL 5.0	<b>/8/2018</b> SPK value 25.00 500.0	SPK Ref Val 0	eqNo: 17 %REC 106 106	755079 LowLimit 70 70	HighLimit 130 130	%RPD		Qual
Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755080         Units:         mg/Kg	Prep Date: Analyte Gasoline Rang Surr: BFB	8/7/2018 e Organics (GRO)	Analysis Da Result 26 530 SampTy	te: <b>8</b> / PQL 5.0 pe: <b>ME</b>	78/2018 SPK value 25.00 500.0 BLK	SPK Ref Val 0 Test	eqNo: 17 %REC 106 106 Code: EF	755079 LowLimit 70 70 PA Method	HighLimit 130 130	%RPD		Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	8/7/2018 e Organics (GRO) mb-39624 PBS	Analysis Da Result 26 530 SampTyp Batch I	te: 8/ PQL 5.0 pe: ME D: 39	/8/2018 SPK value 25.00 500.0 BLK 624	SPK Ref Val 0 Test	eqNo: 1 %REC 106 106 Code: EF unNo: 5:	755079 LowLimit 70 70 PA Method 3308	HighLimit 130 130 8015D Mod:	%RPD		Qual
Gasoline Range Organics (GRO) ND 5.0	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date:	8/7/2018 e Organics (GRO) mb-39624 PBS	Analysis Da Result 26 530 SampTyp Batch I Analysis Da	te: 8/ PQL 5.0 pe: ME D: 39 te: 8/	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018	SPK Ref Val 0 Test R S	eqNo: 1; %REC 106 106 Code: EF unNo: 5; eqNo: 1;	755079 LowLimit 70 70 PA Method 3308 755080	HighLimit 130 130 8015D Mod: Units: mg/k	%RPD Gasoline	Range	
Surr: BFB 560 500.0 112 70 130	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang	8/7/2018 e Organics (GRO) mb-39624 PBS 8/7/2018	Analysis Da Result 26 530 SampTy Batch I Analysis Da Result ND	te: 8/ PQL 5.0 pe: ME D: 39 te: 8/ PQL	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018 SPK value	SPK Ref Val 0 Test R S	eqNo: 1 %REC 106 106 Code: EF unNo: 5 eqNo: 1 %REC	755079 LowLimit 70 70 PA Method 3308 755080 LowLimit	HighLimit 130 130 8015D Mod: Units: mg/M HighLimit	%RPD Gasoline	Range	
Sample ID         mb-39639         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	8/7/2018 e Organics (GRO) mb-39624 PBS 8/7/2018	Analysis Da Result 26 530 SampTy Batch I Analysis Da Result	te: 8/ PQL 5.0 pe: ME D: 39 te: 8/ PQL	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018	SPK Ref Val 0 Test R S	eqNo: 1; %REC 106 106 Code: EF unNo: 5; eqNo: 1;	755079 LowLimit 70 70 PA Method 3308 755080	HighLimit 130 130 8015D Mod: Units: mg/k	%RPD Gasoline	Range	
Client ID: <b>PBS</b> Batch ID: <b>39639</b> RunNo: <b>53308</b>	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	8/7/2018 te Organics (GRO) mb-39624 PBS 8/7/2018 te Organics (GRO)	Analysis Da Result 26 530 SampTy Batch I Analysis Da Result ND 560	te: 8/ PQL 5.0 pe: ME D: 39 te: 8/ PQL 5.0	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018 SPK value 500.0	SPK Ref Val 0 Test R SPK Ref Val	eqNo: 1 %REC 106 106 Code: EF unNo: 5 eqNo: 1 %REC 112	755079 LowLimit 70 70 PA Method 3308 755080 LowLimit 70	HighLimit 130 130 8015D Mod: Units: mg/H HighLimit 130	%RPD Gasoline (g %RPD	<b>Range</b> RPDLimit	
Prep Date:         8/7/2018         Analysis Date:         8/8/2018         SeqNo:         1755081         Units:         mg/Kg	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	8/7/2018 e Organics (GRO) mb-39624 PBS 8/7/2018 e Organics (GRO) mb-39639	Analysis Dav Result 26 530 SampTyr Batch I Analysis Dav Result ND 560 SampTyr	te: 8/ PQL 5.0 D: 39 te: 8/ PQL 5.0	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018 SPK value 500.0 BLK	SPK Ref Val 0 Test SPK Ref Val Test	eqNo: 1 %REC 106 106 Code: EF unNo: 5 eqNo: 1 %REC 112 Code: EF	755079 LowLimit 70 70 PA Method 3308 755080 LowLimit 70 PA Method	HighLimit 130 130 8015D Mod: Units: mg/H HighLimit 130	%RPD Gasoline (g %RPD	<b>Range</b> RPDLimit	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	8/7/2018 ee Organics (GRO) mb-39624 PBS 8/7/2018 ee Organics (GRO) mb-39639 PBS	Analysis Da Result 26 530 SampTyr Batch I Analysis Da Result ND 560 SampTyr Batch I	te: 8/ PQL 5.0 D: 39 te: 8/ PQL 5.0 D: 39	/8/2018 SPK value 25.00 500.0 BLK 624 /8/2018 SPK value 500.0 BLK 639	SPK Ref Val 0 Test SPK Ref Val Test R	eqNo: 1 %REC 106 106 Code: Ef unNo: 5: %REC 112 Code: Ef unNo: 5:	755079 LowLimit 70 70 70 70 74 Method 3308 755080 LowLimit 70 74 Method 3308	HighLimit 130 130 8015D Mod: Units: mg/H HighLimit 130 8015D Mod:	%RPD Gasoline %RPD Gasoline	<b>Range</b> RPDLimit	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 22 of 23

WO#: **1808305** 

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

	and the second	
Sample ID mb-39639	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: 39639	RunNo: 53308
Prep Date: 8/7/2018	Analysis Date: 8/8/2018	SeqNo: 1755081 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	580 500.0	116 70 130
Sample ID Ics-39659	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS	Batch ID: 39659	RunNo: <b>53327</b>
Prep Date: 8/8/2018	Analysis Date: 8/10/2018	SeqNo: 1756042 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	540 500.0	108 70 130
Sample ID mb-39659	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: 39659	RunNo: <b>53327</b>
Prep Date: 8/8/2018	Analysis Date: 8/10/2018	SeqNo: 1756043 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	580 500.0	115 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1808305

13-Aug-18

Page 23 of 23

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	4901 I uquerque FAX: 50	Hawkins NE , NM 87109 5-345-4107	San	nple Log-In C	heck List
Client Name: Animas Environmental	Work Order Number	18083	05		RcptNo:	1
Received By: Anne Thome Completed By: Anne Thome Reviewed By: IO Labached by IENM817	8/7/2018 7:00:00 AM 8/7/2018 7:26:40 AM 5/7/18		An An	u In u In		
Chain of Custody			- -	. []		
1. Is Chain of Custody complete?		Yes			Not Present	
<ol> <li>How was the sample delivered?</li> <li>Log In</li> <li>Was an attempt made to cool the samples?</li> </ol>		<u>Courie</u> Yes	-		NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes			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	y preserved?	Yes 屋	No			
8. Was preservative added to bottles?		Yes	No	$\checkmark$	NA 🗌	
9. VOA vials have zero headspace?		Yes	-		No VOA Vials 🗹	
10. Were any sample containers received broke	n?	Yes	No		# of preserved	18
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🖌	No		bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified on Chain of 0	Custody?	Yes 🗸	No No		Adjusted? -	
13. Is it clear what analyses were requested?		Yes 🗹	No No			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 💆	No No		Checked by:	
Special Handling (if applicable)				/		
15. Was client notified of all discrepancies with t	his order?	Yes	No		NA 🗹	
Person Notified:	Date					
By Whom:	Via:	eMail	Phone	Fax	In Person	
Regarding:		CALLER & MARKED & MARKED & MARK		LEADACIDA MA	AND CONTRACT OF CONTRACTON OF CONTRACT OF CONTRACTON OF CONTRACT OF CONTRACTON OF CONTRACT	
Client Instructions:	Na Carlon Gale (Ballon Groups and Stranger of Carlon Strategy St		ALCONTRACTOR OF A STOC	an a		
16. Additional remarks:						

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes		-	
2	1.3	Good	Yes	4 71 - 488 55 184 17 - 10 - 10 - 10 - 10		V II I J I I I I I I I I I I I I I I I I

UI	an-	u-vu	SLUUY RECOLU							IAL		CRI	3/7	D	-	ME	- RF	TAI	
Client:	Anima	as Envir	onmental Services	Standard	X Rust	Due 8/13/18 NOON				NA									
	Phil			Project Name:		NOON											AL 1 1	UK	I
Mailing Ad	dress:									ww	v.ha	llenv	iron	ment	tal.co	m			
		604 W	Pinon St.	DJR CBU Tan Project #:	k Battery			490	1 Haw	kins M	VE -	Alb	uqu	erqu	e, Ni	M 87	109		
	and Dotte and a second state	and the second se	on, NM 87401	FIUJECL#.				Te	. 505-3	45-3	2	THE OWNER OF	No. of Concession, Name	STREET, STREET	of the local division in which the local division in the local div	4107		a second	2010
Phone #:	Particular State	and the owner of the local division of the l							1.200		An	alys	is R	eque	est				
Email or Fa		tknight@	animasenvironmental.com	Project Manag															
QA/QC Pac	-				T. Knight				1										
X Standar			Level 4 (Full Validation)																
Accreditati				Sampler: TK a		Martin Martin		RO											
		□ Other			Courses on more reading and the statements of the			DRO/GRO/MRO											:
	ype/			Jeanine Leitin	statuters (34	24010= 113		/GR											
				Question		en an	BTEX	RO											¢
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8												:
				.,,-		1808305	8021	8015M											C
8/6/18	1017	Soil	BSC-2	1-9oz	cool	-201	X	X									$\uparrow$	$\top$	+
8/6/18	1021	Soil	BSC-3	1-9oz	cool	702	X	X											+
8/6/18	1029	Soil	BSC-4	1-9oz	cool	703	х	X											
8/6/18	1032	Soil	BSC-5	1-9oz	cool	-204	X	Х											-
8/6/18	1036	Soil	BSC-6	1-9oz	cool	-765	Х	X											T
8/6/18	1045	Soil	BSC-7	2- 4oz	cool	206	Х	X	-										-
8/6/18	1048	Soil	BSC-8	2- 4oz	cool	207	х	X											T
8/6/18	1107	Soil	ASC-1	2- 4oz	cool	-208	Х	X											
8/6/18	1109	Soil	ASC-2	2- 4oz	cool	-769	Х	Х											
8/6/18	1111	Soil	ASC-3	2- 4oz	cool	-210	Х	X											
8/6/18	1113	Soil	ASC-4	2- 4oz	cool	-7(1	X	X											
Date:	Time:	Relinquishe	ed by:	Received by:	5	Date Time			Due 8/	13/18	by	Noon	, Bill	to D	JR C	)pera	ting,	ATTN	N:
elleliB	1705	Ja.	me Up 1	Moth	lact	8/6/15 1709	Amy	/ Arch	uleta										
Date:	Time:	Relinquishe		Received by:	$\Gamma \cap$	Date Time													
8/10/18	1826	Ch	leste Weele (	(In	-h	0700													

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Client:	Anim	as Envir	onmental Services	Standard	X Rust	Due 8/13/18 NOON												TAI OR	
				Project Name:											tal.co				
Mailing Ad	dress:	604 W	Pinon St.	DJR CBU Tar	k Battery			490	)1 Hav								109		
		Farmingt	on, NM 87401	Project #:				Te	1. 505-	345-3	3975	I	Fax	505-	345-	4107	7		
Phone #:	505-56			1							and the second second	alys		COLUMN STATES	CARDING MADE AND				
Email or Fa	ax#:	tknight@	animasenvironmental.com	Project Manag	ier:			· ·											T
QA/QC Pack	kage:			1	T. Knight														
X Standar	ď		Level 4 (Full Validation)																
Accreditatio	on:			Sampler: TK a	and SJ			Q											
D NELAP		Other_		On loe:	Yes	🖾 No		/MF											
	ype)			Sample Temp	erature	6-16-21 J		SRO											
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8021 - BTEX	8015M - DRO/GRO/MRO											
8/6/18	1118	Soil	ASC-5	2- 4oz	cool	1808305	)00 00	X		+	$\vdash$	-			$\left  - \right $		+	+	+
8/6/18	1120	Soil	ASC-6	2- 4oz	cool	70/2	X	X		+	+	-				-+	+		+
8/6/18	1145	Soil	ASC-7	2-402		-213	X	x		+-							-+	+	+
					cool	- 44					-						-+		
8/6/18	1148	Soil	ASC-8	2- 4oz	cool	-715	X	Х				-					$\rightarrow$		$\rightarrow$
8/6/18	1149	Soil	ASC-9	2- 4oz	cool	-26	X	Х											
8/6/18	1151	Soil	ASC-10	2- 4oz	cool	-717	X	X											
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Date: 8/6/10 Date: 8/1	1709 Time:	Relinquishe	mi Off	Received by: Must Received by:	Wast	Date Time 8/6/18 1709 Date Time 68/6/18			: Due { nuleta	3/13/1	8 by	Noor	ı, Bill	to D	JR C	)pera	ting,	ATTN	- <u> </u>
8/11/1	1826	141	ist Walk	1 Um	1-M	- 0700													



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

August 13, 2018

Tami Knight Animas Environmental Services 604 Pinon Street Farmington, NM 87401 TEL: FAX

RE: DJR CBU Tank Battery

OrderNo.: 1808306

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/7/2018 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Animas Environmental Servic Project: DJR CBU Tank Battery	ces		ient Sam Collection			6C-1 5/2018 9:06:00 AM	
Lab ID: 1808306-001	Matrix: SOIL		8/7				
Analyses	Result	PQL	Qual U	nits D	)F	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLIN	ERANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.6	m	g/Kg	1	8/10/2018 11:14:47 AM	39639
Surr: BFB	115	70-130	%	Rec	1	8/10/2018 11:14:47 AM	39639
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	Irm
Diesel Range Organics (DRO)	37	9.7	m	g/Kg	1	8/10/2018 10:21:42 AM	39658
Motor Oil Range Organics (MRO)	ND	49	m	g/Kg	1	8/10/2018 10:21:42 AM	39658
Surr: DNOP	88.1	50.6-138	%	Rec	1	8/10/2018 10:21:42 AM	39658
EPA METHOD 8260B: VOLATILES SH	ORT LIST					Analyst:	AG
Benzene	ND	0.023	m	g/Kg	1	8/9/2018 7:02:56 PM	39639
Toluene	ND	0.046	m	g/Kg ´	1	8/9/2018 7:02:56 PM	39639
Ethylbenzene	ND	0.046	m	g/Kg ´	1	8/9/2018 7:02:56 PM	39639
Xylenes, Total	ND	0.092	m	g/Kg ´	1	8/9/2018 7:02:56 PM	39639
Surr: 4-Bromofluorobenzene	130	70-130	%	Rec	1	8/9/2018 7:02:56 PM	39639
Surr: Toluene-d8	99.2	70-130	%	Rec	1	8/9/2018 7:02:56 PM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808306 Date Reported: 8/13/2018

### Hall Environmental Analysis Laboratory, Inc.

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<ul><li>CLIENT: Animas Environmental Services</li><li>Project: DJR CBU Tank Battery</li><li>Lab ID: 1808306-002</li></ul>	Matrix: SOIL	Client Sample ID: CSC-2Collection Date: 8/6/2018 9:08:00 AMMatrix: SOILReceived Date: 8/7/2018 7:00:00 AM									
Analyses	Result	PQL	Qual I	Units	DF	Date Analyzed	Batch				
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	AG				
Gasoline Range Organics (GRO)	ND	4.8	1	mg/Kg	1	8/9/2018 7:26:01 PM	39639				
Surr: BFB	115	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm				
Diesel Range Organics (DRO)	190	9.7	1	mg/Kg	1	8/10/2018 11:10:47 AM	39658				
Motor Oil Range Organics (MRO)	300	49		mg/Kg	1	8/10/2018 11:10:47 AM	39658				
Surr: DNOP	95.9	50.6-138		%Rec	1	8/10/2018 11:10:47 AM	39658				
EPA METHOD 8260B: VOLATILES SHO	RT LIST					Analyst:	AG				
Benzene	ND	0.024		mg/Kg	1	8/9/2018 7:26:01 PM	39639				
Toluene	ND	0.048	1	mg/Kg	1	8/9/2018 7:26:01 PM	39639				
Ethylbenzene	ND	0.048	1	mg/Kg	1	8/9/2018 7:26:01 PM	39639				
Xylenes, Total	ND	0.097	I	mg/Kg	1	8/9/2018 7:26:01 PM	39639				
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639				
Surr: Toluene-d8	101	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808306 Date Reported: 8/13/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Project: DJR CBU Tank Battery Lab ID: 1808306-003	Client Sample ID: CSC-3       Collection Date: 8/6/2018 9:10:00 AM       Matrix: SOIL     Received Date: 8/7/2018 7:00:00 AM										
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 8015D MOD: GASOLINE F	RANGE					Analyst	AG				
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 7:49:13 PM	39639				
Surr: BFB	117	70-130		%Rec	1	8/9/2018 7:49:13 PM	39639				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm				
Diesel Range Organics (DRO)	270	9.2		mg/Kg	1	8/10/2018 12:39:10 PM	39658				
Motor Oil Range Organics (MRO)	520	46		mg/Kg	1	8/10/2018 12:39:10 PM	39658				
Surr: DNOP	102	50.6-138		%Rec	1	8/10/2018 12:39:10 PM	39658				
EPA METHOD 8260B: VOLATILES SHOP	RTLIST					Analyst	AG				
Benzene	ND	0.024		mg/Kg	1	8/9/2018 7:49:13 PM	39639				
Toluene	ND	0.047		mg/Kg	1	8/9/2018 7:49:13 PM	39639				
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 7:49:13 PM	39639				
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 7:49:13 PM	39639				
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 7:49:13 PM	39639				
Surr: Toluene-d8	97.2	70-130		%Rec	1	8/9/2018 7:49:13 PM	39639				

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808306

Date Reported: 8/13/2018

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

<ul><li>CLIENT: Animas Environmental Services</li><li>Project: DJR CBU Tank Battery</li><li>Lab ID: 1808306-004</li></ul>	Client Sample ID: CSC-4Collection Date: 8/6/2018 9:13:00 AMMatrix: SOILReceived Date: 8/7/2018 7:00:00 AM									
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 8015D MOD: GASOLINE F	ANGE					Analyst	AG			
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 8:12:16 PM	39639			
Surr: BFB	117	70-130		%Rec	1	8/9/2018 8:12:16 PM	39639			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm			
Diesel Range Organics (DRO)	160	9.6		mg/Kg	1	8/10/2018 1:46:29 PM	39658			
Motor Oil Range Organics (MRO)	420	48		mg/Kg	1	8/10/2018 1:46:29 PM	39658			
Surr: DNOP	99.7	50.6-138		%Rec	1	8/10/2018 1:46:29 PM	39658			
EPA METHOD 8260B: VOLATILES SHOR	TLIST					Analyst	AG			
Benzene	ND	0.023		mg/Kg	1	8/9/2018 8:12:16 PM	39639			
Toluene	ND	0.047		mg/Kg	1	8/9/2018 8:12:16 PM	39639			
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 8:12:16 PM	39639			
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 8:12:16 PM	39639			
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	1	8/9/2018 8:12:16 PM	39639			
Surr: Toluene-d8	91.6	70-130		%Rec	1	8/9/2018 8:12:16 PM	39639			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808306

Date Reported: 8/13/2018

CLIENT: Animas Environmental ServicesProject: DJR CBU Tank BatteryLab ID: 1808306-005	Matrix: SOIL			e: 8/	SC-5 6/2018 9:18:00 AM 7/2018 7:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/9/2018 8:35:21 PM	39639
Surr: BFB	115	70-130	%Rec	1	8/9/2018 8:35:21 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/10/2018 3:02:39 PM	39658
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/10/2018 3:02:39 PM	39658
Surr: DNOP	91.4	50.6-138	%Rec	1	8/10/2018 3:02:39 PM	39658
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	AG
Benzene	ND	0.025	mg/Kg	1	8/9/2018 8:35:21 PM	39639
Toluene	ND	0.049	mg/Kg	1	8/9/2018 8:35:21 PM	39639
Ethylbenzene	ND	0.049	mg/Kg	1	8/9/2018 8:35:21 PM	39639
Xylenes, Total	ND	0.098	mg/Kg	1	8/9/2018 8:35:21 PM	39639
Surr: 4-Bromofluorobenzene	129	70-130	%Rec	1	8/9/2018 8:35:21 PM	39639
Surr: Toluene-d8	91.2	70-130	%Rec	1	8/9/2018 8:35:21 PM	39639

### Hall Environmental Analysis Laboratory, Inc.

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

		e Qe Summary report and sumple togin encern	St for mage	get Qe tutu and preservation information.
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

S % Recovery outside of range due to dilution or matrix

- ation limits Page 5 of 16
- Sample container temperature is out of limit as specified W

Lab Order 1808306 Date Reported: 8/13/2018

**Analytical Report** 

CLIENT: Animas Environmental ServicesProject: DJR CBU Tank BatteryLab ID: 1808306-006	Matrix: SOIL			e: 8/	SC-6 6/2018 9:27:00 AM 7/2018 7:00:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/9/2018 10:30:36 PM	39639
Surr: BFB	114	70-130	%Rec	1	8/9/2018 10:30:36 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm
Diesel Range Organics (DRO)	38	9.9	mg/Kg	1	8/10/2018 3:24:44 PM	39658
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	8/10/2018 3:24:44 PM	39658
Surr: DNOP	99.0	50.6-138	%Rec	1	8/10/2018 3:24:44 PM	39658
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	AG
Benzene	ND	0.023	mg/Kg	1	8/9/2018 10:30:36 PM	39639
Toluene	ND	0.047	mg/Kg	1	8/9/2018 10:30:36 PM	39639
Ethylbenzene	ND	0.047	mg/Kg	1	8/9/2018 10:30:36 PM	39639
Xylenes, Total	ND	0.094	mg/Kg	1	8/9/2018 10:30:36 PM	39639
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	8/9/2018 10:30:36 PM	39639
Surr: Toluene-d8	93.5	70-130	%Rec	1	8/9/2018 10:30:36 PM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associa
	D	Sample Diluted Due to Matrix	E	Value above quantitation rang
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quanti
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

- S % Recovery outside of range due to dilution or matrix
- ciated Method Blank
- nge
- ntitation limits Page 6 of 16
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 1808306

Date Reported: 8/13/2018

	Ivit on mental Analysis	Laboratory,	Inc.	No. of Concession, Name	ALC: NO. OF STREET, NO.	-	Date Reported: 8/13/20	18
CLIENT: Project: Lab ID:	Animas Environmental Services DJR CBU Tank Battery 1808306-007	Matrix: SOIL		Collect		e: 8/6	5C-7 5/2018 9:37:00 AM 7/2018 7:00:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 8015D MOD: GASOLINE R	ANGE					Analyst	AG
Gasoline	e Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Surr: E	BFB	116	70-130		%Rec	1	8/9/2018 10:53:40 PM	39639
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel R	ange Organics (DRO)	17	8.9		mg/Kg	1	8/10/2018 4:10:56 PM	39658
Motor Oi	I Range Organics (MRO)	53	44		mg/Kg	1	8/10/2018 4:10:56 PM	39658
Surr: [	DNOP	98.0	50.6-138		%Rec	1	8/10/2018 4:10:56 PM	39658
EPA MET	THOD 8260B: VOLATILES SHOR	T LIST					Analyst	AG
Benzene		ND	0.024		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Toluene		ND	0.047		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Ethylben	izene	ND	0.047		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Xylenes,	Total	ND	0.095		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Surr: 4	4-Bromofluorobenzene	130	70-130	S	%Rec	1	8/9/2018 10:53:40 PM	39639
Surr:	Toluene-d8	93.7	70-130		%Rec	1	8/9/2018 10:53:40 PM	39639

\* Value exceeds Maximum Contaminant Level. Qualifiers: D Sample Diluted Due to Matrix E Value above quantitation range Analyte detected below quantitation limits Page 7 of 16 H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit Р Sample pH Not In Range

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank

- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1808306 Date Reported: 8/13/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas	Environmental Service	s	Cl	ient Sample II	<b>D:</b> CS	SC-8	
Project: DJR CB	U Tank Battery		(	<b>Collection Dat</b>	e: 8/	6/2018 9:43:00 AM	
Lab ID: 1808306	-008	Matrix: SOIL	2	<b>Received Dat</b>	e: 8/′	7/2018 7:00:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 801	5D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline Range Or	ganics (GRO)	ND	4.6	mg/Kg	1	8/9/2018 11:16:41 PM	39639
Surr: BFB		112	70-130	%Rec	1	8/9/2018 11:16:41 PM	39639
EPA METHOD 801	5M/D: DIESEL RANG	E ORGANICS				Analyst	Irm
Diesel Range Orga	nics (DRO)	150	8.9	mg/Kg	1	8/10/2018 4:36:58 PM	39658
Motor Oil Range Or	ganics (MRO)	190	45	mg/Kg	1	8/10/2018 4:36:58 PM	39658
Surr: DNOP		103	50.6-138	%Rec	1	8/10/2018 4:36:58 PM	39658
EPA METHOD 826	0B: VOLATILES SHO	RT LIST				Analyst	AG
Benzene		ND	0.023	mg/Kg	1	8/9/2018 11:16:41 PM	39639
Toluene		ND	0.046	mg/Kg	1	8/9/2018 11:16:41 PM	39639
Ethylbenzene		ND	0.046	mg/Kg	1	8/9/2018 11:16:41 PM	39639
Xylenes, Total		ND	0.093	mg/Kg	1	8/9/2018 11:16:41 PM	39639
Surr: 4-Bromoflue	probenzene	127	70-130	%Rec	1	8/9/2018 11:16:41 PM	39639
Surr: Toluene-d8		92.4	70-130	%Rec	1	8/9/2018 11:16:41 PM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808306 Date Reported: 8/13/2018

CLIENT: Animas Environmental Servic Project: DJR CBU Tank Battery	es			ion Dat		SC-9 5/2018 9:46:00 AM	
Lab ID: 1808306-009	Matrix: SOIL						
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Surr: BFB	117	70-130		%Rec	1	8/9/2018 11:39:51 PM	39639
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	Irm
Diesel Range Organics (DRO)	65	9.3		mg/Kg	1	8/10/2018 5:43:16 PM	39658
Motor Oil Range Organics (MRO)	99	47		mg/Kg	1	8/10/2018 5:43:16 PM	39658
Surr: DNOP	98.2	50.6-138		%Rec	1	8/10/2018 5:43:16 PM	39658
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst:	AG
Benzene	ND	0.024		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 11:39:51 PM	39639
Surr: Toluene-d8	94.2	70-130		%Rec	1	8/9/2018 11:39:51 PM	39639

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808306 Date Reported: 8/13/2018

CLIENT: Animas Environmental Servic Project: DJR CBU Tank Battery	es			imple II ion Dat		6C-10 5/2018 9:56:00 AM	
Lab ID: 1808306-010	Matrix: SOIL		Receiv	ed Dat	e: 8/7	7/2018 7:00:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE	ERANGE					Analyst	AG
Gasoline Range Organics (GRO)	7.3	4.8		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Surr: BFB	126	70-130		%Rec	1	8/10/2018 12:02:56 AM	39639
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	840	95		mg/Kg	10	8/10/2018 6:50:00 PM	39658
Motor Oil Range Organics (MRO)	550	480		mg/Kg	10	8/10/2018 6:50:00 PM	39658
Surr: DNOP	0	50.6-138	S	%Rec	10	8/10/2018 6:50:00 PM	39658
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst	AG
Benzene	ND	0.024		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Toluene	ND	0.048		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	1	8/10/2018 12:02:56 AM	39639
Surr: Toluene-d8	94.3	70-130		%Rec	1	8/10/2018 12:02:56 AM	39639

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1808306 Date Reported: 8/13/2018

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limit Page 10 of 16
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

<ul><li>CLIENT: Animas Environmental Service</li><li>Project: DJR CBU Tank Battery</li><li>Lab ID: 1808306-011</li></ul>	s Matrix: SOIL		Collect	t Sample ID: BSC-1 lection Date: 8/6/2018 10:12:00 AM eccived Date: 8/7/2018 7:00:00 AM					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 8015D MOD: GASOLINE	RANGE					Analyst	AG		
Gasoline Range Organics (GRO)	120	4.9		mg/Kg	1	8/10/2018 1:35:22 AM	39659		
Surr: BFB	155	70-130	S	%Rec	1	8/10/2018 1:35:22 AM	39659		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	Irm		
Diesel Range Organics (DRO)	1800	93		mg/Kg	10	8/10/2018 7:56:35 PM	39658		
Motor Oil Range Organics (MRO)	860	460		mg/Kg	10	8/10/2018 7:56:35 PM	39658		
Surr: DNOP	0	50.6-138	S	%Rec	10	8/10/2018 7:56:35 PM	39658		
EPA METHOD 8260B: VOLATILES SHO	RT LIST					Analyst	AG		
Benzene	ND	0.024		mg/Kg	1	8/10/2018 1:35:22 AM	39659		
Toluene	ND	0.049		mg/Kg	1	8/10/2018 1:35:22 AM	39659		
Ethylbenzene	0.21	0.049		mg/Kg	1	8/10/2018 1:35:22 AM	39659		
Xylenes, Total	1.3	0.097		mg/Kg	1	8/10/2018 1:35:22 AM	39659		
Surr: 4-Bromofluorobenzene	177	70-130	S	%Rec	1	8/10/2018 1:35:22 AM	39659		
Surr: Toluene-d8	93.4	70-130		%Rec	1	8/10/2018 1:35:22 AM	39659		

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: \* Value exceeds Maximum Contaminant Level. В D Sample Diluted Due to Matrix Е H Holding times for preparation or analysis exceeded J

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limit Page 11 of 16
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1808306 Date Reported: 8/13/2018

WO#: 1808306

13-Aug-18

	Environmer U Tank Bat		vices							
Sample ID MB-39658	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 396	658	F	RunNo: 5	3354				
Prep Date: 8/8/2018	Analysis D	ate: 8/	10/2018	S	SeqNo: 1	756923	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	7.8		10.00		78.5	50.6	138			
Sample ID LCS-39658	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 390	658	F	RunNo: 5	3354				
Prep Date: 8/8/2018	Analysis D	ate: 8/	10/2018	S	SeqNo: 1	756924	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	70	130			
Surr: DNOP	3.5		5.000		70.7	50.6	138			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 12 of 16

#### Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID	1808306-011ams	SamnT	ype: MS	34	Tes	tCode: F	PA Method	8260B: Vola	tiles Short	List	
Client ID:	BSC-1		D: 39			RunNo: 5		02000. 0014		LIST	
Prep Date:		Analysis D				SeqNo: 1		Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.023	0.9276	0.008841	91.8	80	120		and the second second second second	
Toluene		0.96	0.046	0.9276	0	104	80	120			
Ethylbenzene		1.2	0.046	0.9276	0.2072	109	82	121			
Xylenes, Total		4.3	0.093	2.783	1.307	106	80.2	120			
Surr: 4-Brom	nofluorobenzene	0.77		0.4638		166	70	130			S
Surr: Toluen	ne-d8	0.43		0.4638		92.0	70	130			
Sample ID	1808306-011amsd	SampT	ype: MS	SD4	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID:	BSC-1	Batch	ID: 39	659	F	RunNo: 5	3327				
Prep Date:	8/8/2018	Analysis D	ate: 8/	10/2018	S	SeqNo: 1	756101	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.024	0.9452	0.008841	96.3	80	120	6.65	20	
Toluene		1.0	0.047	0.9452	0	110	80	120	7.65	20	
Ethylbenzene		1.3	0.047	0.9452	0.2072	115	82	121	6.12	20	
Xylenes, Total		4.5	0.095	2.836	1.307	113	80.2	120	5.80	20	
Surr: 4-Brom	nofluorobenzene	0.85		0.4726		179	70	130	0	0	S
Surr: Toluen	ne-d8	0.46		0.4726		96.7	70	130	0	0	
Sample ID	lcs-39659	SampT	ype: LC	S4	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID:	BatchQC	Batch	ID: 39	659	F	RunNo: 5	3327				
Prep Date:	8/8/2018	Analysis D	ate: 8/	10/2018	S	SeqNo: 1	756110	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	92.8	80	120			
Toluene		1.0	0.050	1.000	0	100	80	120			
Ethylbenzene		1.0	0.050	1.000	0	104	80	120			
Xylenes, Total		3.1	0.10	3.000	0	104	80	120			
Surr: 4-Brom	nofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluen	ie-d8	0.48		0.5000		95.8	70	130			
					And the second se			and the second	and the state of the second seco		
Sample ID	mb-39659	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
	mb-39659 PBS		ype: ME			tCode: E RunNo: 5		8260B: Vola	tiles Short	List	
	PBS		ID: 39	659	F		3327	8260B: Vola Units: mg/H		List	
Client ID:	PBS	Batch	ID: 39	659 10/2018	F	RunNo: 5	3327			RPDLimit	Qual
Client ID: Prep Date: Analyte	PBS	Batch Analysis Da	ate: <b>8</b> / PQL 0.025	659 10/2018	F	RunNo: <b>5</b> SeqNo: <b>1</b>	3327 756111	Units: mg/H	(g		Qual
Client ID: Prep Date: Analyte Benzene	PBS	Batch Analysis Da Result	ate: 8/	659 10/2018	F	RunNo: <b>5</b> SeqNo: <b>1</b>	3327 756111	Units: mg/H	(g		Qual
Client ID: Prep Date:	PBS	Batch Analysis Da Result ND	ate: <b>8</b> / PQL 0.025	659 10/2018	F	RunNo: <b>5</b> SeqNo: <b>1</b>	3327 756111	Units: mg/H	(g		Qual

#### Qualifiers:

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

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: **1808306** 

13-Aug-18

Page 14 of 16

WO#: **1808306** 

Page 16 of 16

13-Aug-18

Client: Project:		nvironmer Tank Bat		vices								
Sample ID Ic	cs-39624	SampT	ype: LC	S	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: L	CSS	Batch	ID: 39	624	RunNo: 53308							
Prep Date:	8/7/2018	Analysis D	ate: 8/	8/2018	S	eqNo: 1	755078	Units: %Re	с			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		530		500.0		105	70	130				
Sample ID Id	cs-39639	SampT	ype: LC	S	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: L	CSS	Batch	ID: 39	639	R	unNo: 5	3308					
Prep Date:	8/7/2018	Analysis D	ate: 8/	8/2018	S	eqNo: 1	755079	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	Organics (GRO)	26	5.0	25.00	0	106	70	130	Jord D		Guai	
Surr: BFB	5	530		500.0		106	70	130				
Sample ID n	nb-39624	SampT	ype: ME	3LK	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: P	PBS	Batch	ID: 39	624	R	unNo: 5	3308			-		
Prep Date:	8/7/2018	Analysis D	ate: 8/	8/2018	S	eqNo: 1	755080	Units: %Re	с			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		560		500.0		112	70	130				
Sample ID n	nb-39639	SampT	ype: ME	BLK	Test	Code: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: P	PBS	Batch	ID: 39	639	R	unNo: 5	3308					
Prep Date:	8/7/2018	Analysis D	ate: 8/	8/2018	S	eqNo: 1	755081	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	Organics (GRO)	ND	5.0									
Surr: BFB		580		500.0		116	70	130				
Sample ID	cs-39659	SampT	ype: LC	S	Tes	Code: El	PA Method	8015D Mod:	Gasoline	Range		
Client ID: L	CSS	Batch	ID: 39	659	R	unNo: 5	3327					
Prep Date:	8/8/2018	Analysis D	ate: 8/	10/2018	S	eqNo: 1	756042	Units: mg/M	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	Organics (GRO)	28	5.0	25.00	0	110	70	130				
Surr: BFB		540		500.0		108	70	130				
Sample ID n	nb-39659	SampT	ype: ME	BLK	Tes	Code: E	PA Method	8015D Mod:	Gasoline	Range		
Client ID: F	PBS	Batch	ID: 39	659	F	tunNo: 5	3327					
Prep Date:	8/8/2018	Analysis D	ate: 8/	10/2018	S	eqNo: 1	756043	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte												

#### Qualifiers:

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

PQL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environment Aı TEL: 505-345-39. Website: www.	NE 109 Sarr	Sample Log-In Check List						
Client Name: Animas Environme	ntai Work Order Numb	er: 1808306		RcptNo:	1				
			. 1						
Received By: Anne Thome	8/7/2001 7:00:00 AN	1	Anne Im Anne Im	~					
Completed By: Anne Thorne	8/7/2018 7:56:04 AN	ł	anne Han	~					
Reviewed By: 10	8/7/18								
Lubered by ENM	817118								
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 s	amples?	Yes 🗹	No 🗌	NA					
4. Were all samples received at a terr	perature of >0° C to 6.0°C	Yes 🖌	No 🗌	NA 🗌					
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌						
o. Sample(s) in proper container(s):									
6. Sufficient sample volume for indica	ted test(s)?	Yes 🗹	No 🗌						
7. Are samples (except VOA and ONC	G) properly preserved?	Yes 🗹	No 🗌						
8. Was preservative added to bottles?	•	Yes	No 🗹	NA 🗌					
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹					
10. Were any sample containers receiv	red broken?	Yes	No 🗹 🛛		/				
10, were any sample containers recen		163		# of preserved bottles checked	Du				
11. Does paperwork match bottle labels	\$?	Yes 🗹	No 🗌	for pH:					
(Note discrepancies on chain of cus				Adjusted?	2 unless noted)				
12. Are matrices correctly identified on		Yes 🗹		Subsect -					
<ul><li>13. Is it clear what analyses were reque</li><li>14. Were all holding times able to be m</li></ul>		Yes ✔ Yes ✔		Checked by:					
(If no, notify customer for authorization				/					
Special Handling (if applicable	a)								
15. Was client notified of all discrepan	-	Yes	No 🗌	NA 🔽					
	antan managana ana ang sa								
Person Notified: By Whom:	Date Via:	eMail Ph	none 🗌 Fax	In Person					
Regarding:									
Client Instructions:	NUMBER OF STREET, STREE								
16. Additional remarks:		and the second second second							
17. Cooler Information									
Cooler No. Temp °C Cond	tion Seal Intact Seal No	Seal Date	Signed By						

 1
 2.4
 Good
 Yes

 2
 1.3
 Good
 Yes

Client:	a statute or share on the same statute of the	and the second se	stody Record	Standard	X Rust	Due 8/13/18										IEN'		
				Project Name:		NOON										RAT	OF	<1
Mailing Ad	dress:									ww	w.ha	llenv	rironi	nenta	al.com			
	•		Pinon St.	DJR CBU Tar Project #:	k Battery	:		490	)1 Hav	vkins	NE -	- Alb	uque	erque	, NM	87109		
		and the second se	on, NM 87401					Te	1. 505	-345-3	And in case of the local diversion of the local diversion of the local diversion of the local diversion of the	- III CONTRACTOR	and the second	Statement of the local division of the local	345-41	07		-35
Phone #:		CALL COLOR									An	alys	is Re	eque	st		1	
Email or Fa		tknight(a)	animasenvironmental.com	Project Manag														
QA/QC Pac X Standar	-		Level 4 (Full Validation)	÷	T. Knight													
Accreditati				Sampler: TK	and S I													
		□ Other_		On lice:	Yes	C No .		MRC										
	ype)			Sample Temp	erature 🖏 🛃	16-195 2. H		RO/	~									
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Z COUS HEAL NO.	8021 - BTEX	8015M - DRO/GRO/MRO					-					
8/6/18	0906	Soil	CSC-1	1-9oz	cool	-201	X	х										
8/6/18	0908	Soil	CSC-2	1-9oz	cool	-202	Х	х										-
8/6/18	0910	Soil	CSC-3	1-9oz	cool	203	X	X										
8/6/18	0913	Soil	CSC-4	1-9oz	cool	-204	X	Х										-
8/6/18	0918	Soil	CSC-5	1-9oz	cool	-705	X	Х										
8/6/18	0927	Soil	CSC-6	1-9oz	cool	-204	X	Х						$\square$				
8/6/18	0937	Soil	CSC-7	1-9oz	cool	707	X	Х										-
8/6/18	0943	Soil	CSC-8	1-9oz	cool	-208	X	X										
8/6/18	0946	Soil	CSC-9	1-9oz	cool	-209	X	X					•					
8/6/18	0956	Soil	CSC-10	1-9oz	cool	-010	X	Х	1									
8/6/18	1012	Soil	BSC-1	1-9oz	cool	-311	X	X										
Date:	Time:	Relinquishe	id by: 10 -1	Received by:		Date Time				8/13/1	8 by I	Noon	, Bill	to DJ	IR Ope	erating,	ATT	N
36/18	1709.	Jem	u VIF	Christ	awa	et 8/0/18 1709	Amy	ALC	nuleta									
Date:	Time:	Relinquishe	the by:	Received by:		Date Time <i>B</i>   07/ <i>B</i> 07/ <i>C</i> 0												



### **Analytical Report**

### **Report Summary**

Client: DJR Operating, LLC Chain Of Custody Number: Samples Received: 10/12/2018 10:15:00AM Job Number: 17035-0028 Work Order: P810039 Project Name/Location: DJR CBU Tank Battery

Report Reviewed By:

Walter Hinden

Date: 10/29/18

10/29/18

Date:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Supplement to analytical report generated on: 10/16/18 4:22 pm



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted 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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Wall (North)	P810039-01A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-01B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
East Wall (South)	P810039-02A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-02B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
SW Base	P810039-03A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-03B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.

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DJR Operating, LLC	Project	Name:	DJR	CBU Tank E	Battery					
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Manager:	Tami	Knight	10/29/18 08:43					
			Vall (No							
			39-01 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	1841027	10/12/18	10/12/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	50	-150	1841027	10/12/18	10/12/18	EPA 8015D		
Surrogate: n-Nonane		117 %	50	-200	1841028	10/12/18	10/12/18	EPA 8015D		

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DJR Operating, LLC	Project	Name:	DJR	CBU Tank E	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Tami	Knight			10/29/18 08:43		
			Wall (So						
			39-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1841027	10/12/18	10/12/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	83.2	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	50-	-150	1841027	10/12/18	10 12 18	EPA 8015D	
Surrogate: n-Nonane		122 %	50-	-200	1841028	10/12/18	10 12 18	EPA 8015D	

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DJR Operating, LLC	Project	Name:	DJR	CBU Tank H	Battery					
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Manager:	Tami	Knight		10/29/18 08:	43			
		S	W Base							
			39-03 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	1841027	10/12/18	10/12/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-F1D		98.8 %	50-	-150	1841027	10/12/18	10/12/18	EPA 8015D		
Surrogate: n-Nonane		121 %	50-	-200	1841028	10/12/18	10/12/18	EPA 8015D		

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

#### Volatile Organics by EPA 8021 - Quality Control

**Envirotech Analytical Laboratory** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
maye	Result	Limit	Units	Level	Result	ZOREC	LIIIIIIS	κrυ.	Linnt	inotes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 1	10/12/18 1 A	analyzed: 1	0/12/18 2			
Benzene	ND	100	ug/kg							
Toluene	ND	100								
Ethylbenzene	ND	100								
o,m-Xylene	ND	200								
p-Xylene	ND	100								
fotal Xylenes	ND	100	"							
fotal BTEX	ND	100	н							
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			
LCS (1841027-BS1)				Prepared: 1	0/12/18 1 A	analyzed: 1	0/12/18 2			
Benzene	5910	100	ug/kg	5000		118	70-130			
Toluene	5960	100	**	5000		119	70-130			
Ethylbenzene	6030	100		5000		121	70-130			
),m-Xylene	12300	200	н	10000		123	70-130			
-Xylene	5960	100		5000		119	70-130			
Total Xylenes	18300	100		15000		122	70-130			
urrogate: 4-Bromochlorobenzene-PID	8250		"	8000		103	50-150			
Matrix Spike (1841027-MS1)	Sou	rce: P810034-	01	Prepared: 1	0/12/18 1 A	nalyzed: 1	0/12/18 2			
Benzene	6270	100	ug/kg	5000	ND	125	54.3-133			
Toluene	6270	100		5000	ND	125	61.4-130			
Ethylbenzene	6300	100		5000	ND	126	61.4-133			
o,m-Xylene	12800	200		10000	ND	128	63.3-131			
p-Xylene	6120	100		5000	ND	122	63.3-131			
Total Xylenes	18900	100		15000	ND	126	63.3-131			
Surrogate: 4-Bromochlorobenzene-P1D	6810		n	8000		85.1	50-150			
Matrix Spike Dup (1841027-MSD1)	Sou	rce: P810034-	01	Prepared: 1	0/12/18 1 A	nalyzed: 1	0/13/18 0			
Benzene	6290	100	ug/kg	5000	ND	126	54.3-133	0.250	20	
Toluene	6220	100		5000	ND	124	61.4-130	0.710	20	
Ethylbenzene	6140	100		5000	ND	123	61.4-133	2.59	20	
o,m-Xylene	12500	200		10000	ND	125	63.3-131	2.86	20	
p-Xylene	5970	100		5000	ND	119	63.3-131	2.53	20	
Fotal Xylenes	18400	100	2	15000	ND	123	63.3-131	2.75	20	

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Page 6 of 11



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

			v		v					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared	10/12/18 1 4	Analyzed: 1	0/12/18 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		"	8.00		97.9	50-150			
LCS (1841027-BS2)				Prepared:	10/12/18 1 4	Analyzed: 1	0/12/18 2			
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		"	8.00		98.9	50-150			
Matrix Spike (1841027-MS2)	Sou	rce: P810034-	01	Prepared:	10/12/18 1 A	Analyzed: 1	0/13/18 0			
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.1	50-150			
Matrix Spike Dup (1841027-MSD2)	Sou	rce: P810034-	01	Prepared:	10/12/18 1 A	Analyzed: 1	0/13/18 0			
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.0	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-F1D	7.21		"	8.00		90.1	50-150			

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Page 7 of 11



ſ	DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
	1 Rd 3263	Project Number:	17035-0028	Reported:
	Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

			v		v					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1841028 - DRO Extraction EPA 3570										
Blank (1841028-BLK1)				Prepared:	10/12/18 1 4	Analyzed:	10/12/18 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	60.6		"	50.0		121	50-200			
LCS (1841028-BS1)				Prepared:	10/12/18 1 2	Analyzed:	10/12/18 2			
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500		90.4	38-132			
Surrogate: n-Nonane	59.9		"	50.0		120	50-200			
Matrix Spike (1841028-MS1)	Sour	ce: P810039-	01	Prepared:	10/12/18 1 /	Analyzed:	10/12/18 2			
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.9	38-132			
Surrogate: n-Nonane	62.7		11	50.0		125	50-200			
Matrix Spike Dup (1841028-MSD1)	Sour	ce: P810039-	01	Prepared:	10/12/18 1 2	Analyzed:	10/12/18 2			
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.2	38-132	0.331	20	
Surrogate: n-Nonane	60.2		"	50.0		120	50-200			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

#### **Notes and Definitions**

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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Page 9 of 11

alient: DJR Operating			RUSH?	نا	ab Use Only			Ana	alysis ar	d Meth	od	lat	
Project: DJR CBU Tank Battery			X 1d	and the second second second	Lab WO#								NN
Sampler: C. Lameman			X 3d	P81	039							-	191
Phone: 505.564.2281		Ď.	Tuesdar By 5:00	r l	ob Number	3015			0.0			mbe	Pad
Email(s): Henight Canimasen Iron mental.com	j djrllc.co	tac	By 5:00	pm 17039	DD Number	py 8	021	8.1	y 30			Lab Number	17
Project Manager: Tami Knight	, J		'Page	of	1	<u>e</u>	oy 8(	y 41	de b			「「」	0 U
Sample ID	Sample Date	Sample Time	Matrix	Q	ontainers TYPE/ Preservative	GHO/ DHO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0				Obrrect Opht/Press (s) VIN
East Wall (North)	10-11-18	14:01	Soil	2-41	z jars/co	1 X	×					1	Y
East Wall (South)	10-11-18	14:06	Soil	2-402j	ars cool	×	×					2	1
SW Base	16-11-18	14:14	Seil	2-4.2	ars / cool	, X	×					3	11
					, ,								
											+		
Pelinquished by: (Sgnature) Date Time	Peceiver	by: (Sgna	ture)	Date	Time	the state	L			Use On			
10-12-18 10:15		N	ruic)	10/2/18	1.	** Rece	ivod	on la	and the second second		iy		
Relinquished by: (Sgnature) Date Time	Received	i by: (Sgna	ture)	Date	Time	T1 AVG Te			T2	_		Т3	_
Sample Matrix: S - Soil, Sd - Solid, Sg - Sudge, A - Aqueous, O - Other	Vigica	einco	10)61		Container Typ	and the second se	Contraction of the local division of the loc	Contraction in the local of	No. of Concession, Name	ag - an	nber da	ss v - VO	A
** Samples requiring thermal preservation must be received on ice the day	the second se	A Design of the local division of the local	and the second se	at an avg temp ab	Conversion of the second state of the second state of the second s	Property and the second s	NUMBER OF TAXABLE	and in the owner where the party of the part	the second se	,	giù		
Sample(s) dropped off after hours to a secure drop off area.	fa marka manina kala na kana ang kana ang kana ang kana kana	Chain of	f Custody	Notes/Billi	nginfo: Bill to	DUR	Ope	rat	mg.	Attn:	Any	holeta	_
Analytical Laboratory			ngton, NM 87401			632-0615 Fx						envirotech	
Analytical Laboratory	intee Spri	ngs • 65 Mercado	surer, suite 115, I	Durango, CO 81301	Ph (970)	259-0615 Fr	(800) 362	-18/9			labora	atory@envirotech	-Inc.com

aient: DJR Operating			RUSH?	L	ab Use Only			Ana	alysis	and	Meth	od		lab (	
Project: DJR CBU Tank Battery			X 1d	NO TO A TRANSPORT	Lab WO#	0	ada	led	10/2	16/1	2 per	-71	chight	m	1 of
Sampler: C. Lameman			× 3d	P810	9039	1040					1		ľ	J	v(s)
Phone: 505.564.2281		D	Tuesda By 5:0	J	ob Number	015			0.0					mbe	Pac
Email(s): <u>fknight Canimasenvlron mental.com</u> Project Manager: Tami Knight	djrllc.c	tac	By 5:0 Pag	17034	50028	Dby 8	8021	118.1	e by 30					Lab Number	Cont/
Sample ID	Sample Date	Sample Time	Matrix	α	ontainers TYPE/Preservative	GPD/ DPD by 8015 /	BIEXby 8021	TPH by 418.1	Chloride by 300.0					North State	Correct Cont/Prsv (s) Y/N Page 11 of
East Wall (North)	10-11-18	14:01	Soil	2-41	z jars/con	1 X	×							1	Y
East Wall (South)	10-11-18	14:06	Soil		ars Jeaol	×	×							2	1
SW Base	10-11-18			2-4.2	jars / cool	X	X							3	1
	1				Contraction of the										
					La La Carteria										
Pelinquished by: (Sgnature) Date Time	Received	by: (Sgnat		Date	Time		E A	and the second se	100000	1. 1. 1. C.	e Onl	у			
(10-12-18 10:15 Delinguided by (Senture) Deta The	Destined	. M	uma)	10/218		* Recei	ved	on lo	xey)	/ N			-		
Pelinquished by: (Sgnature) Date Time	Received		1.22	Late	the same of the sa	1 VG Tei			-D				T3_		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sudge, A - Aqueous, O - Other	NUMBER OF STREET, STREE	in Lo	AND DESCRIPTION OF TAXABLE PARTY.		Container Type:	Contra the local division in which the local division in the local	STATISTICS. INCOME.		the second second second	tic, a	g - am	nber g	plass, v -	VOA	
** Samples requiring thermal preservation must be received on ice the day t Sample(s) dropped off after hours to a secure drop off area.		Chain of			ng info: Bill to					An	th'	Am	4	-	
		Gridini Ol	custody		dded por T			- W	-			A	rchul	ita	
envirotech Analytical Laboratory		gltway 64, Farmø Igs • 65 Mercado 1		Durango, (O 81301	Ph (505) 63. Ph (970) 259			-1865				ł	en boratory⊜en	irotech-i krotech-i	A REAL PROPERTY.



# **Analytical Report**

# **Report Summary**

Client: DJR Operating, LLC Chain Of Custody Number: Samples Received: 10/12/2018 10:15:00AM Job Number: 17035-0028 Work Order: P810040 Project Name/Location: DJR CBU Tank Battery

Report Reviewed By:

Walter Hinden

Walter Hinchman, Laboratory Director

The in

Date:

Date:

10/29/18

10/29/18

Tim Cain, Project Manager

Supplement to analytical report generated on: 10/16/18 4:27 pm



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Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

# **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE Base	P810040-01A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-01B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
SE Base	P810040-02A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-02B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
South Wall (East)	P810040-03A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-03B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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Page 2 of 11



DJR Operating, LLC	Project	Name:	DJR	CBU Tank E	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager	Tami	Knight				10/29/18 08	37
			E Base						
			40-01 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1841027	10/12/18	10/12/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		97.4 %	50	-150	1841027	10 12 18	10 12 18	EPA 8015D	
Surrogate: n-Nonane		120 %	50	-200	1841028	10 12 18	10/13/18	EPA 8015D	

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DJR Operating, LLC	Project	Name:	DJR	CBU Tank E	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager	Tami	Knight				10/29/18 08:	37
			E Base						
			40-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1841027	10 12 18	10/12/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		97.8 %	50-	-150	1841027	10 12 18	10/12/18	EPA 8015D	
Surrogate: n-Nonane		122 %	50-	-200	1841028	10 12 18	10/13/18	EPA 8015D	

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DJR Operating, LLC	Project Name:			CBU Tank E						
1 Rd 3263	Project	t Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	t Manager:	Tami	Knight		10/29/18 08	:37			
		South	Wall (E	ast)						
			40-03 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021								х		
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Toluene	ND	ND 100 ug/		1	1841027	10/12/18	10/12/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-P1D		102 %	50	-150	1841027	10/12/18	10/12/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D		
Diesel Range Organics (C10-C28)	52.4	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.6 %	50	-150	1841027	10 12 18	10 12 18	EPA 8015D		
Surrogate: n-Nonane		124 %	24 % 50-200		1841028	10 12 18	10 13 18	EPA 8015D		

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Page 5 of 11



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

## Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 1	10/12/18 1 A	Analyzed: 1	0/12/18 2			
Benzene	ND	100	ug/kg			2				
Toluene	ND	100	"							
Ethylbenzene	ND	100								
p,m-Xylene	ND	200								
p-Xylene	ND	100	"							
Total Xylenes	ND	100								
Total BTEX	ND	100								
Surrogate: 4-Bromochlorobenzene-P11)	8130		"	8000		102	50-150			
LCS (1841027-BS1)				Prepared: 1	0/12/18 1 A	Analyzed: 1	0/12/18 2			
Benzene	5910	100	ug/kg	5000		118	70-130			
Toluene	5960	100		5000		119	70-130			
Ethylbenzene	6030	100		5000		121	70-130			
p,m-Xylene	12300	200		10000		123	70-130			
p-Xylene	5960	100		5000		119	70-130			
Total Xylenes	18300	100		15000		122	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8250		"	8000		103	50-150			
Matrix Spike (1841027-MS1)	Sou	irce: P810034-	01	Prepared: 1	10/12/18 1 A					
Benzene	6270	100	ug/kg	5000	ND	125	54.3-133			
Toluene	6270	100		5000	ND	125	61.4-130			
Ethylbenzene	6300	100	2	5000	ND	126	61.4-133			
p,m-Xylene	12800	200		10000	ND	128	63.3-131			
o-Xylene	6120	100		5000	ND	122	63.3-131			
Total Xylenes	18900	100	**	15000	ND	126	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	6810		"	8000		85.1	50-150			
Matrix Spike Dup (1841027-MSD1)	Sou	irce: P810034-	01	Prepared: 1	10/12/18 1 A	Analyzed: 1	0/13/18 0			
Benzene	6290	100	ug/kg	5000	ND	126	54.3-133	0.250	20	
Toluene	6220	100		5000	ND	124	61.4-130	0.710	20	
Ethylbenzene	6140	100		5000	ND	123	61.4-133	2.59	20	
p,m-Xylene	12500	200		10000	ND	125	63.3-131	2.86	20	
o-Xylene	5970	100		5000	ND	119	63.3-131	2.53	20	
Total Xylenes	18400	100		15000	ND	123	63.3-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	6710		"	8000		83.9	50-150			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1841027 - Purge and Trap EPA 5030A												
Blank (1841027-BLK1)				Prepared:	10/12/18 1 A	Analyzed:	10/12/18 2					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		"	8.00		97.9	50-150					
LCS (1841027-BS2)				Prepared:	10/12/18 1 A	Analyzed:	10/12/18 2					
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0		102	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		"	8.00		98.9	50-150					
Matrix Spike (1841027-MS2)	Sou	rce: P810034-	01	Prepared:	10/12/18 1 A	analyzed:	10/13/18 0					
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.1	50-150					
Matrix Spike Dup (1841027-MSD2)	Sou	rce: P810034-	01	Prepared:	10/12/18 1 A	analyzed:	10/13/18 0					
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.0	70-130	2.60	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		"	8.00		90.1	50-150					

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37
		and the second	

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

· ·												
		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1841028 - DRO Extraction EPA 3570	)											
Blank (1841028-BLK1)				Prepared:	10/12/18 1 4	Analyzed:	10/12/18 2					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg									
Oil Range Organics (C28-C40+)	ND	50.0										
Surrogate: n-Nonane	60.6		"	50.0		121	50-200					
LCS (1841028-BS1)				Prepared:	10/12/18 1 4	Analyzed:	10/12/18 2					
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500		90.4	38-132					
Surrogate: n-Nonane	59.9		"	50.0		120	50-200					
Matrix Spike (1841028-MS1)	Sour	ce: P810039-	01	Prepared:	10/12/18 1 4	Analyzed:	10/12/18 2					
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.9	38-132					
Surrogate: n-Nonane	62.7		"	50.0		125	50-200					
Matrix Spike Dup (1841028-MSD1)	Sour	ce: P810039-	01	Prepared: 10/12/18 1 Analyzed			10/12/18 2					
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.2	38-132	0.331	20			
Surrogate: n-Nonane	60.2		"	50.0		120	50-200					

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M2100 HUM, 07410	i toject Manager.	Tahir Kinght	10/27/18 08:57
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37
1 Rd 3263	Project Number:	17035-0028	Reported:
DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	

#### **Notes and Definitions**

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Page 9 of 11

aient: DJR operating					RUSH?	نا ر	ab Use Only	50.5		Ana	alysisa	nd Meth	nod		ab Onl	11
Project: DOR CBU TAR		ly			X 1d		Lab WO#								NA	of (
Sampler: C. Lameman		l			V-3d	P81	0040								(3)	e 10
Phone: 505.564.2281				Ŭ.	ye Thesd	J	bb Number	015			0.0				Chut/Prsv	Pad
Email(s): - Knight Canimosenvi	onmental.co	mi dir	Ilc. com		Sy 5:0	open 1202	55-0028	by 8	121	<u></u>	y 30				Nur Nur	Ļ
Project Manager: Tami K	night	, <u> </u>			94 5:0 Pag	e of	1	2	y 80	/ 418	de bi					5
Sample	ID		Sample Date	Sample Time	Matrix		ontainers TYPE/Preservati	GHO/ DHO by 8015	BIEXby 8021	TPH by 418.1	Chloride by 300.0				Orre	Page 10 of
NE Base			10-11-18	14:47	Soil	2-402ja	vs coul	×	X						1 7	
SE Base			10-11-18	14:40	Soil	2-4 02	jars cou	l x	×						7	
South Wall	(East)		10-11-18	14:34	Soil	2-4 02	jars   coo	×	×						3	
							, ,									1 N 10
															1	
			·													1
Pelinquished by: (Sgnature)	Date	Time	Received	l b <mark>ý: (</mark> Sgna	L ture)	Date	Time	1500000	11200	185742	Lab	Use Or			1	-
Canter	10-12-18	10:15	A	, an	,	10/2/18	1015	** Rece	ived	on lo	States and the second second		,			
Relinquished by: (Sgnature)	Date	Time	Received	d by: (Sgna	ture)	Date	Time	T1 AVG Te	_		T2			Т3_	<u> </u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Su	udge, A - Aqueous,	O-Other	- V'S I	up in 1	Adler	1	Container Ty			-		c, ag - a	nber gl	ass, v - \	/OA	1
** Samples requiring thermal preservation	n must be receive	d on ice the day t	hey are sampled o			at an avg temp al	bove 0 but less that	an 6°Con su	ıbsequ	ent da	ys.					
Sample(s) dropped off after hours	to a secure drop of	ff area.		Chain of	f Custody	/ Notes/Billi	ing info: Bill +	DIR	ope	rat	Carl	Att n:	Arz	hulet	z	
envir		<b>h</b>		lighway 64, Farm			Ph (50	51 632-0615 Fx	(\$05) 632	- 1865				envir	tech-inc.com	
Andiyite		nory	iniee Spi	ings + 65 Mercado	Stirel, Suite 115	Durango, CO 81301	Ph (97)	9) 259-0615 Fr	(800) \$62	-1879			labo	ratory@enviro	tech-inc.cor	n

aient: DJR operating			RUSH?		ab Use Only			An	alvsis	and M	/lethoo			lab C	
Project: Darg COU Truel Ballon			X 1d	and the second	Lab WO#			-	1			-			-
Project: DOR CBU Tank Battery Sampler: C. Lameman			× 3d	P4	10040		3 4	aco	10/	26/18	port	. Keni	9		S) Y
		- 7		The second s	Job Number	-	0/c	1-4	0					Der	) VIS
Phone: 505.564.2281	iletac		Tuesda	4 120	35-0024				300.0					Im	H H
Email(s): - Knight canimosenvionmental.com; archi Project Manager: Tami Knight	Ilc. com		94 5:00 Page	of of		;		TPH by 418.1	by					ab Number	Cont/Prsv (s) Y/N
		Sample			Dontainers			byA	ride					-	Correct
Sample ID	Sample Date	Time	Matrix		TYPE/Preservativ	ve		TE	Chloride by						8
-														1	15
NE Base	10-11-18	14:47	Soil	2-402 jo	NS COUL	3	< X							1	Y
SE Base	10-11-18	14:40	Soil			1 ×	×							7	
South Wall (East)	10-11-18	14:34	Soil	2.4 oz	jars   cool		×							3	L
					)										
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			-												
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land 10-12-18 10:15	Tacover	M		10/12/14	1015	** Red	reiver	on lo	Children and State		Cilly				
Relinquished by: (Sgnature) Date Time	Received	by: (Sgnat	ture)	Date	Time	T1_		CITR	T2_				T3_		
		A. S. S.				AVG	Temp	°CH	0				A State		
Sample Matrix: S- Soil, Sd - Solid, Sg - Sudge, A - Aqueous, O - Other		Ll. in (		Constant and	Container Typ	And the other states and the state of the st	Contraction of the local division of the loc	specific division in which the real of the	CALCULATION OF TAXABLE	tic, ag	j-amb	er glas	s, v - '	VOA	
** Samples requiring thermal preservation must be received on ice the day the	ney are sampled o	257.00							-		-				_
Sample(s) dropped off after hours to a secure drop off area.		Charron	Custody	OKO	added per	T. KN	ight	-m	ومربع	Att	n: on	the	ule	ta	
Analytical Laboratory	5796 US H	gliway 64, Farmir	ngton, NM 87401		The second second	61 632-0615	0	3	20° - 19				envi	ofech-In	- com
Analytical Laboratory			Street, Suite 115, D	)urango, (() 81301		)) 259-0615					1.7	laborat	tory genvi		and the second



# **Analytical Report**

# **Report Summary**

Client: DJR Operating, LLC Chain Of Custody Number: Samples Received: 10/23/2018 4:00:00PM Job Number: 17035-0028 Work Order: P810109 Project Name/Location: DJR CBU Tank Battery

Report Reviewed By:

Walter Hinkin

Date: 10/29/18

Date:

10/29/18

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Supplement to analytical report generated on: 10/26/18 3:32 pm



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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

# **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE Base #2	P810109-01A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-01B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
NE Base #1	P810109-02A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-02B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
LACT Base #1	P810109-03A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-03B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
LACT Wall #3	P810109-04A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-04B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301



DJR Operating, LLC	Project	Name:	DJR	CBU Tank I	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Tami	Knight				10/29/18 08	:41
			E Base #2						
		Reporting	09-01 (So	olid)					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	370	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8015D	
Surrogate: n-Nonane		132 %	50-	-200	1843014	10 24 18	10 25 18	EPA 8015D	

5796 US Highway 64, Farmington, NM 87401



DJR Operating, LLC	Project	Name	DJR	CBU Tank E	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Tami	Knight				10/29/18 08:	41
			E Base #1						
[		P8101 Reporting	09-02 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1.	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1843017	10 24 18	10/25/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	193	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	50	-150	1843017	10 24 18	10 25 18	EPA 8015D	
Surrogate: n-Nonane		134 %	50	-200	1843014	10 24 18	10 25 18	EPA 8015D	

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301



DJR Operating, LLC	Project	Name:	DJR	CBU Tank I	Battery				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Tami	Knight				10/29/18 08:	41
			CT Base						
			09-03 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	277	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		103 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8015D	
Surrogate: n-Nonane		133 %	50-	-200	1843014	10 24 18	10 25 18	EPA 8015D	

5796 US Highway 64, Farmington, NM 87401



DJR Operating, LLC	Project	Name:	DJR	CBU Tank E	Battery					
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Manager	Tami	Knight				10/29/18 08:41		
			CT Wall							
			09-04 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-F11)		100 %	50-	-150	1843017	10 24 18	10 25 18	EPA 8015D		
Surrogate: n-Nonane		131 %	50-	-200	1843014	10 24 18	10 25 18	EPA 8015D		



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

atch 1843017 - Purge and Trap EPA 5030A           atch 1843017 - Purge and Trap EPA 5030A           Prepared: 10/24/18 1 Analyzed: 10/24/18 2           nzme         ND         10/24/18 1 Analyzed: 10/24/18 2           ND         100         *           *         *           *         *           *         *           *         *           *         *           *         *           *         *           *         *           *         *           *         *           *         *           * <t< th=""><th></th><th></th><th>Reporting</th><th></th><th>Spike</th><th>Source</th><th></th><th>%REC</th><th></th><th>RPD</th><th></th></t<>			Reporting		Spike	Source		%REC		RPD	
Rak (143017-BLK)       Propertional of the second of the sec	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
m.zeneND100ug.kgbleneND100-bleneND100-m-XyleneND100-MylendND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesND100-stall AlylenesS0010150-150created al AlylenesS20010070-130stall AlylenesS20010070-130bleneS200100-1000stall AlylenesS20010070-130hyleneS200100-1020stall AlylenesS200100-1020stall AlylenesS200100-1020stall AlylenesS200100-1020stall AlylenesS200100-1020stall AlylenesS200100-1024/18stall AlylenesS200100ND10554.3-13stall AlylenesS200100ND10554.3-13stall AlylenesS200100ND10554.3-13stall AlylenesS200100ND10554.3-13 <t< th=""><th>Batch 1843017 - Purge and Trap EPA 5030A</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Batch 1843017 - Purge and Trap EPA 5030A										
Mune         ND         100         **           hybbezzee         ND         200         *           Nylene         ND         100         *           Nylene         ND         100         *           Nylene         ND         100         *           Nylene         ND         100         *           ula YSlenes         ND         100         *           transgat: 4-Bramochloraberzene/ID         800         *         101         50-f5           CS (1843017-BS1)         Prepared:         102/4/18         1 Analyzee:         10/2/18.2           marke         5200         100         *         5000         106         70-130           hybbenzene         5280         100         *         5000         106         70-130           mrsylene         1280         100         *         8000         106         70-130           uragate: 4-Bramochlorabenzene-PID         8/00         *         8000         108         70-130           uragate: 4-Bramochlorabenzene-PID         8/00         *         8000         ND         105         54.3-133           uragate: 4-Bramochlorabenzene-PID         8/00         *	Blank (1843017-BLK1)				Prepared:	10/24/18 1 A	Analyzed: 1	10/24/18 2			
name mathem methylemeneND100 $^{-1}$ m-NylemeND200 $^{-1}$ NylemeND100 $^{-1}$ NylemeND100 $^{-1}$ nal BTEXND100 $^{-1}$ nal STEXND100 $^{-1}$ stal StaltND100 $^{-1}$ stalt Stalt100 $^{-1}$ $^$	Benzene	ND	100	ug/kg							
ny lotication may lotication Ny leneND100100100Ny Ny leneND100" $^{-1}$ <	Toluene	ND	100								
Introduction particuleND100	Ethylbenzene	ND	100								
Aylene         ND         100           stal BTEX         ND         100         "           stal BTEX         ND         100         "           stal BTEX         ND         100         "           creating Statemenchloroherizene-PID         8090         "         8000         101         50-150           creating Statemenchloroherizene-PID         8090         "         8000         105         70-130           creating Statemenchloroherizene-PID         5240         100         ug/kg         5000         100         70-130           mixene         5250         100         "         5000         100         70-130           mixene         5250         100         "         5000         106         70-130           mixenes         5280         100         "         8000         70         70-130           transplic 4-Bromochloroherizene-PID         8190         "         8000         100         70-130           transplic 4-Bromochloroherizene-PID         8190         "         8000         ND         102         51-130           transplic 4-Bromochloroherizene-PID         8190         "         7000         ND         100         63.	p,m-Xylene	ND	200								
Max Xyenes       ND       100       "         Max B TEX       ND       000       "       8000       101       50-50         Max Syenes       1024/18 1 Analyzet       1024/18 2       1024/18 2         Enzene       5240       100       "       5000       106       70-130         Interne       5290       100       "       5000       106       70-130         Interne       5350       100       "       5000       106       70-130         Insylene       5350       100       "       5000       106       70-130         Nylene       5280       100       "       5000       108       70-130         Nylene       5280       100       "       8000       102       50-50         Intri Spike (1843017-MS1)       Source: P81008-01       "       8000       ND       102       54.3-133         Intri Spike (1843017-MS1)       Source: P81008       100       %       5000       ND       105       64.4-130         Intri Spike (1843017-MS1)       Source: P81008       100       %       5000       ND       105       64.4-130         Intri Spike (1843017-MS1)       Source: P81000       %<	o-Xylene	ND	100								
numgati: 4-Bromochlorobenzene-P/D       800       "       800       101       50-150         CS (1843017-BS1)       Preparet:       10/24/18 1       Analyzet:       10/24/18 2         namene       5240       100       "egg       500       105       70-130         hyllenzene       5350       100       "       5000       107       70-130         nxSylene       5280       100       "       5000       106       70-130         Sylene       5280       100       "       5000       108       70-130         Nylene       5280       100       "       5000       108       70-130         tarix Spike (1843017-MS1)       Source: P81000       "       8000       TO       102       50-150         tarix Spike (1843017-MS1)       Source: P81000       "       No       102       50.1413       1024/18 1       1024/18 1         hylbenzene       5260       100       "       S000       ND       105       64.3-133         hylbenzene       5270       100       "       5000       ND       105       64.133         mrxpike       1600       00       "       10000       ND       105 <td< td=""><td>Total Xylenes</td><td>ND</td><td>100</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Total Xylenes	ND	100								
magne, -primoundationalization (1)       369.0       101       369.0       101       369.0         CS (143017-BS1)       Prepared:       10/24/18 1 Analyzed:       10/24/18 2         enzene       5240       100       ug/kg       5000       105       70-130         hylbenzene       5350       100       "       5000       107       70-130         m-Xylene       10900       200       "       10000       109       70-130         xylene       5280       100       "       5000       106       70-130         tald Xylenes       16200       100       "       8000       102       50-150         tarr Spike (1843017-MS1)       Source: P81018-01       Prepared:       10/24/18       1 Analyzed:       10/24/18         nexnene       5260       100       ug/kg       5000       ND       105       54.3-133         shuene       5270       100       "       5000       ND       105       61.4-130         hylbenzene       5330       100       "       5000       ND       107       61.4-133         hylbenzene       5330       100       "       5000       ND       107       63.3-131	Total BTEX	ND	100								
stand       5240       100       ug/kg       5000       105       70-130         hulene       5290       100       "       5000       106       70-130         hylbenzene       5350       100       "       5000       107       70-130         m-Xylene       10900       200       "       10000       109       70-130         Mylenzene       5280       100       "       5000       106       70-130         val Xylenes       16200       100       "       10000       108       70-130         urrogate: 4-Bromochlorobenzene-PID       8190       "       8000       108       70-130         urrogate: 3200       100       "       8000       ND       105       54.3-133         plaene       5260       100       ug/kg       5000       ND       105       61.4-130         hylbenzene       5330       100       "       5000       ND       105       63.3-131         mzenget: 4-Bromochlorobenzene-PID       200       "       5000       ND       107       63.3-131         valene       5230       100       "       5000       ND       107       63.3-131      <	Surrogate: 4-Bromochlorobenzene-PID	8090		"	8000		101	50-150			
bluene         5290         100         "         5000         106         70-130           hylbenzene         5350         100         "         5000         109         70-130           m-Xylene         10900         200         "         10000         109         70-130           Xylene         5280         100         "         5000         106         70-130           tatl Xylenes         16200         00         "         5000         108         70-130           tatl Xylenes         16200         00         "         5000         108         70-130           tatrix Spike (1843017-MS1)         Surce: PSIUT8-U         Prepared: 10/24/18         1 Analyzed: 10/24/18         1           uerone         5260         100         ug/g         5000         ND         105         54.3-13           uerone         5260         100         "g/g         5000         ND         105         54.3-13           uerone         5260         100         "G/g         5000         ND         107         63.3-131           tylene         5330         100         "G/g         5000         ND         107         63.3-131	LCS (1843017-BS1)				Prepared:	10/24/18 1 A	Analyzed: 1	10/24/18 2			
Marke       100 <th< td=""><td>Benzene</td><td>5240</td><td>100</td><td>ug/kg</td><td>5000</td><td></td><td>105</td><td>70-130</td><td></td><td></td><td></td></th<>	Benzene	5240	100	ug/kg	5000		105	70-130			
nyber definition       nyber definition       nyber definition       nyber definition         xylene       5280       100       "       5000       106       70-130         xylene       5280       100       "       5000       108       70-130         tart xylenes       16200       100       "       1020       108       70-130         tart xylene       Source:       Pstorde       102       50-50       54.3-133         tart xylene       5260       100       ug/kg       5000       ND       105       61.4-130         soluene       5270       100       "       5000       ND       107       61.4-133         hylbenzene       5330       100       "       5000       ND       107       61.4-133         xylene       5330       100       "       5000       ND       107       61.4-133         xylene       5330       100       "       5000       ND       107       63.3-131         tart xylenes       16100       "       5000       ND       107       63.3-131         tart xylene       5330       100       "       8000       ND       107       54.3-133       <	Toluene	5290	100		5000		106	70-130			
Intriction       10000       100000       100000       100000       100	Ethylbenzene	5350	100		5000		107	70-130			
Aylenc         100<	o,m-Xylene	10900	200	н	10000		109	70-130			
Main Ayrichs       10000       100000       100000       10000       10000       10000       10000       10000       10000       10000       10000       10000       100000       100000       100000       100000       100000       100000       100000       100000       100000       1000000       1000000       1000000	p-Xylene	5280	100		5000		106	70-130			
Intrix Spike (1843017-MS1)       Source: P810108-01       Prepared: 10/24/18 1 Analyzed: 10/24/18 2         enzene       5260       100       ug/kg       5000       ND       105       54.3-133         oluene       5270       100       "       5000       ND       105       61.4-130         hylbenzene       5330       100       "       5000       ND       107       61.4-133         xylene       5230       100       "       5000       ND       105       63.3-131         xylene       5230       100       "       5000       ND       105       63.3-131         trogate: 4-Bromochlorobenzene-PID       8080       "       8000       ND       107       54.3-133       1.51       20         enzene       5340       100       ug/kg       5000       ND       107       54.3-133       1.51	Total Xylenes	16200	100		15000		108	70-130			
enzene       5260       100       ug/kg       5000       ND       105       54.3-133         bluene       5270       100       "       5000       ND       105       61.4-130         hylbenzene       5330       100       "       5000       ND       107       61.4-133         m-Xylene       10900       200       "       10000       ND       109       63.3-131         Xylene       5230       100       "       5000       ND       107       63.3-131         tart Xylenes       16100       100       "       15000       ND       107       63.3-131         tartrogate: 4-Bromochlorobenzene-PID       8080       "       8000       ND       107       63.3-131         enzene       5340       100       ug/kg       5000       ND       107       54.3-133       1.51       20         bluene       5390       100       "       5000       ND       108       61.4-130       2.16       20         hylbenzene       5340       100       "       5000       ND       108       61.4-130       2.16       20         hylbenzene       5390       100       "	Surrogate: 4-Bromochlorobenzene-PID	8190		"	8000		102	50-150			
bluene       5270       100       100       105       61.4-130         hylbenzene       5330       100       "       5000       ND       107       61.4-133         m-Xylene       10900       200       "       10000       ND       109       63.3-131         Xylene       5230       100       "       5000       ND       105       63.3-131         trat Xylenes       16100       100       "       5000       ND       107       63.3-131         trat Xylenes       6100       100       "       8000       ND       107       63.3-131         trat Xylenes       6100       100       "       8000       ND       107       63.3-131         trat Xylenes       6000       "       8000       ND       107       63.3-131       20         trat Xplke Dup (1843017-MSD1)       Source: P810108-01       Prepared: 10/24/18 1 AnJyzed: 10/24/18 2       10/24/18 2         trans       5340       100       ug/kg       5000       ND       107       54.3-133       1.51       20         ohuene       5340       100       "       5000       ND       109       61.4-133       2.38       20	Matrix Spike (1843017-MS1)	Sou	irce: P810108-0	01	Prepared:	10/24/18 1 A	Analyzed: 1	10/24/18 2			
Indic       100 <th< td=""><td>Benzene</td><td>5260</td><td>100</td><td>ug/kg</td><td>5000</td><td>ND</td><td>105</td><td>54.3-133</td><td></td><td></td><td></td></th<>	Benzene	5260	100	ug/kg	5000	ND	105	54.3-133			
Information       5550       100	Toluene	5270	100		5000	ND	105	61.4-130			
MrXylene       1000       200       1000       1000       100	Ethylbenzene	5330	100		5000	ND	107	61.4-133			
Ayrine       100 <t< td=""><td>p,m-Xylene</td><td>10900</td><td>200</td><td></td><td>10000</td><td>ND</td><td>109</td><td>63.3-131</td><td></td><td></td><td></td></t<>	p,m-Xylene	10900	200		10000	ND	109	63.3-131			
Main Sylices       1000       1000       1000       1000       100       00.5.101         urrogate: 4-Bromochlorobenzene-PID       8080       "       8000       101       50-150         Latrix Spike Dup (1843017-MSD1)       Source: P810108-01       Prepared: 10/24/18 1 Analyzed: 10/24/18 2       10/24/18 2         enzene       5340       100       ug/kg       5000       ND       107       54.3-133       1.51       20         obuene       5390       100       "       5000       ND       108       61.4-130       2.16       20         hylbenzene       5460       100       "       5000       ND       109       61.4-133       2.38       20         m-Xylene       11200       200       "       10000       ND       112       63.3-131       2.57       20         Xylene       5370       100       "       5000       ND       107       63.3-131       2.58       20         otal Xylenes       1650       100       "       15000       ND       100       63.3-131       2.57       20	o-Xylene	5230	100	н	5000	ND	105	63.3-131			
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5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615 Fx (505) 632-1865	envirotech-inc.com
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615 Fr (800) 362-1879	laboratory@envirotech-inc.com



	Nonhalogenated Organics	by 8015 - Quality Control	
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41
1 Rd 3263	Project Number:	17035-0028	Reported:
DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	

#### **Envirotech Analytical Laboratory**

			v		·					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1843014 - DRO Extraction EPA 3570										
Blank (1843014-BLK1)				Prepared:	10/24/18 0 4	Analyzed:	10/24/18 2			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0								
Surrogate: n-Nonane	64.0		17	50.0		128	50-200			
LCS (1843014-BS1)				Prepared	10/24/18 0 4	Analyzed:	10/24/18 2			
Diesel Range Organics (C10-C28)	454	25.0	mg/kg	500		90.8	38-132			
Surrogate: n-Nonane	62.3		"	50.0		125	50-200			
Matrix Spike (1843014-MS1)	Sou	rce: P810028-	01	Prepared:	10/24/18 0 4	Analyzed:	10/25/18 0			
Diesel Range Organics (C10-C28)	596	25.0	mg/kg	500	198	79.6	38-132			
Surrogate: n-Nonane	63.5		"	50.0		127	50-200			
Matrix Spike Dup (1843014-MSD1)	Sou	rce: P810028-	01	Prepared:	10/24/18 0 4	Analyzed:	10/25/18 0			
Diesel Range Organics (C10-C28)	575	25.0	mg/kg	500	198	75.5	38-132	3.47	20	
Surrogate: n-Nonane	63.7		"	50.0		127	50-200			



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

#### Nonhalogenated Organics by 8015 - Quality Control

#### **Envirotech Analytical Laboratory**

					-					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1843017 - Purge and Trap EPA 50	)30A									
Blank (1843017-BLK1)				Prepared:	10/24/18 1 A					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		n	8.00		99.0	50-150			
LCS (1843017-BS2)				Prepared	10/24/18 1 A	Analyzed: 1	0/24/18 2			
Gasoline Range Organics (C6-C10)	50.9	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FlD	7.94		11	8.00		99.3	50-150			
Matrix Spike (1843017-MS2)	Sour	ce: P810108-	01	Prepared:	10/24/18 1 A	Analyzed: 1	0/24/18 2			
Gasoline Range Organics (C6-C10)	51.1	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150			
Matrix Spike Dup (1843017-MSD2)	Sour	ce: P810108-	01	Prepared:	10/24/18 1 A	Analyzed: 1	0/25/18 0			
Gasoline Range Organics (C6-C10)	50.8	20.0	mg/kg	50.0	ND	102	70-130	0.525	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		"	8.00		99.6	50-150			

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Page 9 of 12



DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

#### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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Remedial Excavation of Hydrocarbon Impacted Soil

Central Bisti Unit Tank Battery (C) Sec 5 – T25N – R12W San Juan County, New Mexico

> Prepared for: DJR Operating, LLC Aztec, New Mexico

Prepared by: Blagg Engineering, Inc. P.O. Box 87 Bloomfield, New Mexico 87413 (505)632-1199

December 5, 2018

# REMEDIAL EXCAVATION OF HYDROCARBON IMPACTED SOIL CENTRAL BISTI UNIT TANK BATTERY

## TABLE OF CONTENTS

Introduction	1
Remediation Activities	1
Discussion of Analytical Results	2
Conclusions and Recommendations	3
Closure and Limitations	3

#### **APPENDICES**

Figures

Figure 1: Site Location Map Figure 2: Site Map

Appendix A: September 6, 2018 Sample Event – Summary Spreadsheets of Laboratory Analytical Results, Sampling Zones, Photographs and Laboratory Analytical Data Reports

Appendix B: November 26, 2018 Sample Event – Summary Spreadsheets of Laboratory Analytical Results, Sampling Zones, Photographs and Laboratory Analytical Data Reports

## REMEDIAL EXCAVATION OF HYDROCARBON IMPACTED SOIL CENTRAL BISTI UNIT TANK BATTERY

#### **INTRODUCTION**

Blagg Engineering Inc. (BEI) has been retained by DJR Operating, LLC (DJR) to monitor, sample and document environmental remediation of hydrocarbon impacts at the Central Bisti Unit (CBU) Tank Battery, a dismantled produced oil processing facility in rural San Juan County, New Mexico at (C) Sec. 5 - T25N - R12W (Figure 1). The origin of the hydrocarbon release at the site is not known but is likely from standard operating procedures historically in use and authorized by regulatory agencies. Remediation of hydrocarbon impacted soil was conducted via excavation and transportation of soils to a licensed commercial landfarm facility. BEI conducted closure sampling of the remedial excavation on two separate occasions: September 6, 2018 and November 26, 2018. Other consultants were also contracted by DJR to conduct closure sampling on other occasions when BEI was unavailable.

On the September 6, 2018 sampling event there were two separate remedial excavations on-going at the CBU Battery. BEI labeled them as the North Excavation and the South Excavation (Figure 2). Sampling was conducted on the exposed excavation sidewalls and base areas to determine the current status of remediation. The sampling on this date was limited in scope due to prior closure sampling conducted by other consultants that documented closure of specific excavation areas.

The November 26, 2018 sampling event was limited to the North Excavation only. Prior sampling of the South Excavation by others had documented complete closure of that dig and the excavation had been fully backfilled with clean imported soils. Laboratory analytical results from this final sampling of the North Excavation demonstrated complete remediation of the site, as described in this report.

The site closure standard has been determined by the New Mexico Oil Conservation Division as:

- Total Petroleum Hydrocarbons (TPH) via U.S. EPA Method 8015: 100 mg/Kg
- Total Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) via U.S. EPA Method 8021: 50 mg/Kg
- Benzene via U.S. EPA Method 8021: 10 mg/Kg
- Chlorides via U.S. EPA Method 300: 600 mg/Kg

#### **REMEDIATION ACTIVITIES**

Site remediation consisted of excavation of impacted sandstone in all directions until site closure standards had been achieved. DJR contracted a third party construction company to conduct this remedial effort. The primary heavy equipment included dozers and trackhoe excavators. This large equipment was necessary due to the substrate media consisting primarily of dense, well cemented sandstone.

On the first sample event conducted by BEI on September 6, 2018 the dimensions of the remedial excavations were measured and a sampling plan was formatted. Both excavations had been

previously sampled and certain areas had demonstrated closure. Only those areas requiring additional closure sampling were included in the sample plan. This consisted of dividing base areas and sidewalls into approximate equal areas. Composite sampling of each area proceeded as standard protocol. There were no discernible stains on any surfaces so composite points were generally equally patterned across the sample areas.

The second sample event conducted by BEI was on November 26, 2018. There was no sampling on the South Excavation since that dig had previously achieved closure via sampling by others. The North Excavation had the same footprint as the September 6, 2018 sample event except that certain base areas (primarily NE Base #1, NE Base #2 and LACT Base #1) had been extended to a deeper depth. This necessitated including additional sidewall sampling at deeper depths adjacent to certain base areas, even though previously sidewall sampling had demonstrated closure at shallower depths.

Composite closure sampling of exposed sidewalls and base areas was conducted by hand using a spade to scrape the surface of the sandstone for collection into a gallon sized sized Ziploc® baggie for field headspace analysis of organic vapors with a calibrated IonScience Tiger model photo-ionization detector (PID) containing a 11.2 eV lamp. Split samples were placed into a 4-ounce laboratory supplied jar with Teflon® lid, labeled and placed on ice in an ice chest for further laboratory testing. The jarred samples were hand delivered to a qualified laboratory for analysis via U.S. EPA Method 8021B (volatile organics limited to benzene, toluene, ethyl benzene and total xylenes), U.S. EPA Method 8015 (gasoline range (GRO), diesel range (DRO) and motor oil range (MRO) organics), and chlorides via U.S. EPA Method 300. A chain-of-custody followed the samples.

#### DISCUSSION OF ANALYTICAL RESULTS

#### Northern Excavation

The September 6, 2018 sample event resulted in closure of three (3) base areas (LACT Base #2, LACT Base #3 and LACT Base #4) and two (2) sidewall areas (LACT Wall #1 and LACT Wall #2). Laboratory test data resulted in non-closures at three (3) base areas (NE Base #1, NE Base #2 and LACT Base #1) and one sidewall area (LACT Wall #3). DJR directed their construction contractor to remove additional soils and additional sampling was conducted by another consultant. This sampling resulted in closure at LACT Wall #3, but the base areas required additional remedial excavation. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the northern excavation sampled by BEI are included in Appendix A.

Following removal of additional impacted media the closure sampling conducted by BEI on November 26, 2018 returned laboratory analytical results indicating that all remaining zones had achieved site closure. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the northern excavation sampled by BEI are included in Appendix B.

#### Southern Excavation

The September 6, 2018 sampling of the South Excavation returned analytical results indicating closure at three (3) base areas (NE Base, NW Base and SE Base) and three (3) sidewall areas (North Wall-East, West Wall-North, and South Wall-West). However, the laboratory analytical data resulted in non-closure of one (1) base area (SW Base) and two (2) sidewall areas (East Wall-North and East Wall-South). DJR directed the construction contractor to remove additional soils from those failed areas. Subsequent sampling by another consultant resulted in final closure of the South Excavation. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the southern excavation sampled by BEI are included in Appendix A.

#### CONCLUSIONS AND RECOMMENDATIONS

1) Hydrocarbon impacted soil and bedrock at the DJR Operating - Central Bisti Unit Tank Battery, of an historical nature, has been successfully excavated and removed from the site. Excavation sampling and analytical testing has confirmed that all sampling zones within the remedial excavations test below site closure standards. No additional site remediation of impacts is indicated. Regulatory closure of remedial activities is recommended.

#### CLOSURE AND LIMITATIONS

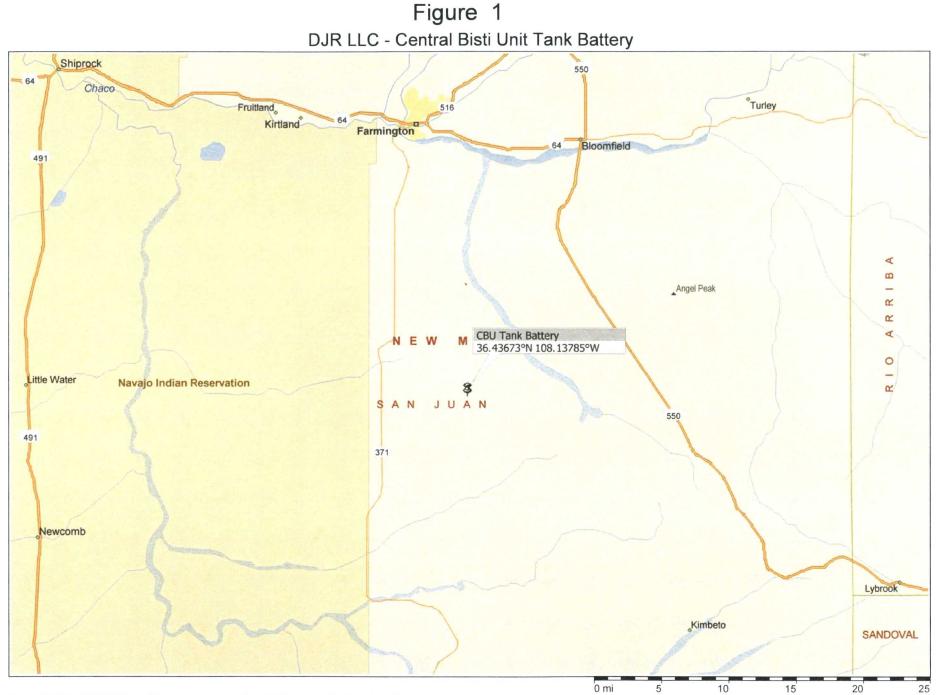
This report has been prepared for the exclusive use of DJR Operating, LLC as it pertains to hydrocarbon impact remediation at the Central Bisti Unit Tank Battery in San Juan County, New Mexico. The data presented herein is based on visual observations, subsurface soil conditions encountered at sampling locations and on information reported by analytical laboratory testing of soils. This report does not reflect variations which may exist between sampling locations. Additionally, work performed and reported by other professional consultants used on the project cannot be validated by Blagg Engineering, Inc.

I certify that the work performed by Blagg Engineering, Inc. as described in this report was directed by my supervision, and that I am personally familiar with the remedial actions and the contents of this report.

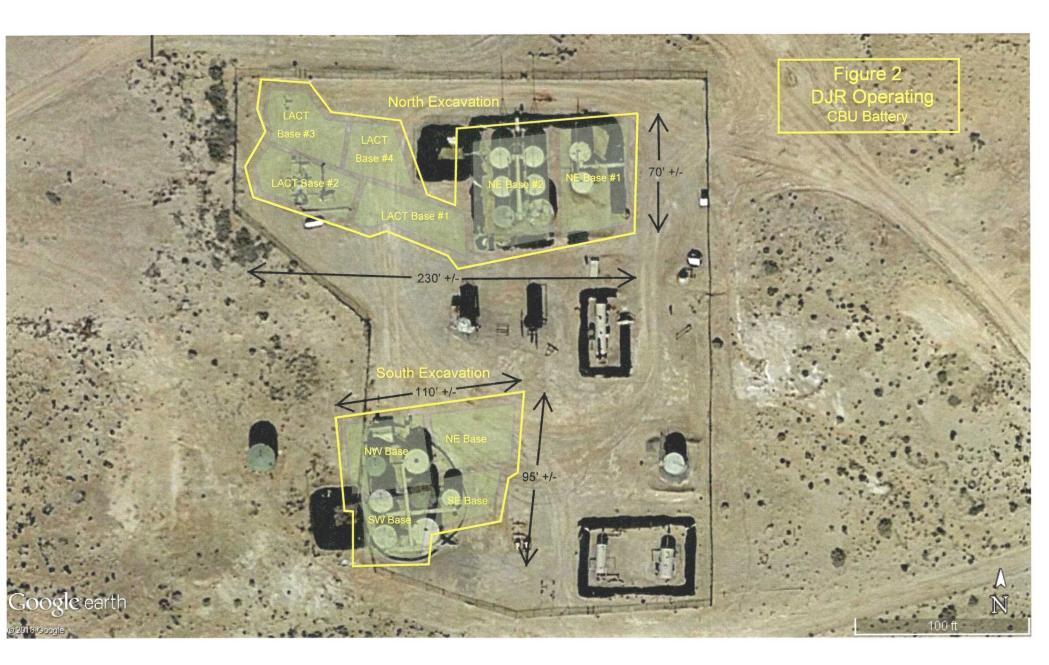
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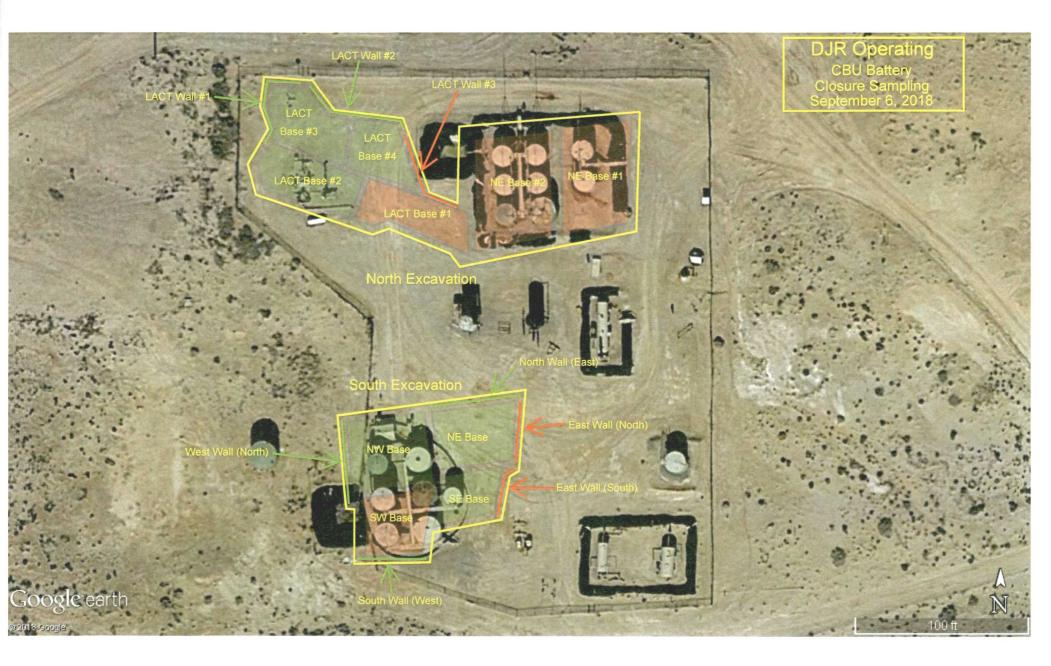
Jeffrey C. Blagg, PE NMPE 11607



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# APPENDIX A SEPT 6, 2018 SAMPLE EVENT



# DJR Operating CBU Battery NE/4 NW/4 Sec 5 – T25N – R12W San Juan County, New Mexico Excavation Closure Laboratory Analytical Results

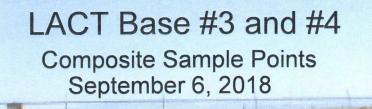
September 6, 2018							
Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)	
NE Base #1 (East)	8.5'	3.2	ND + 96 + 94 = 190	0.01	ND	ND	
NE Base #2 (West)	9'	182	ND + 290 + 180 = 470	0.05	ND	ND	
LACT Base #1	12'	18.4	ND + 85 + 53 = 138	ND	ND	ND	
LACT Base #2	12'	7.2	ND + 46 + ND = 46	ND	ND	ND	
LACT Base #3	12'	9.1	ND + 34 + ND = 34	ND	ND	ND	
LACT Base #4	12'	4.1	ND + 7 + ND = 7	ND	ND	ND	
LACT Wall #1	2'-9'	3.0	ND + 2 + ND = 2	ND	ND	43	
LACT Wall #2	3'-10'	2.8	ND + 34 + 63 = 97	ND	ND	68	
LACT Wall #3	2'-9'	2.0	ND + 60 + 98 = 158	ND	ND	ND	

# North Excavation

NE Base #1 Composite Sample Points September 6, 2018



LACT Base #1 Composite Sample Points September 6, 2018 LACT Base #2 Composite Sample Points September 6, 2018



LACT Base #3

ACT Base #2

LACT Base #4

# LACT Wall #1 Composite Sample Points September 6, 2018

Strande Love

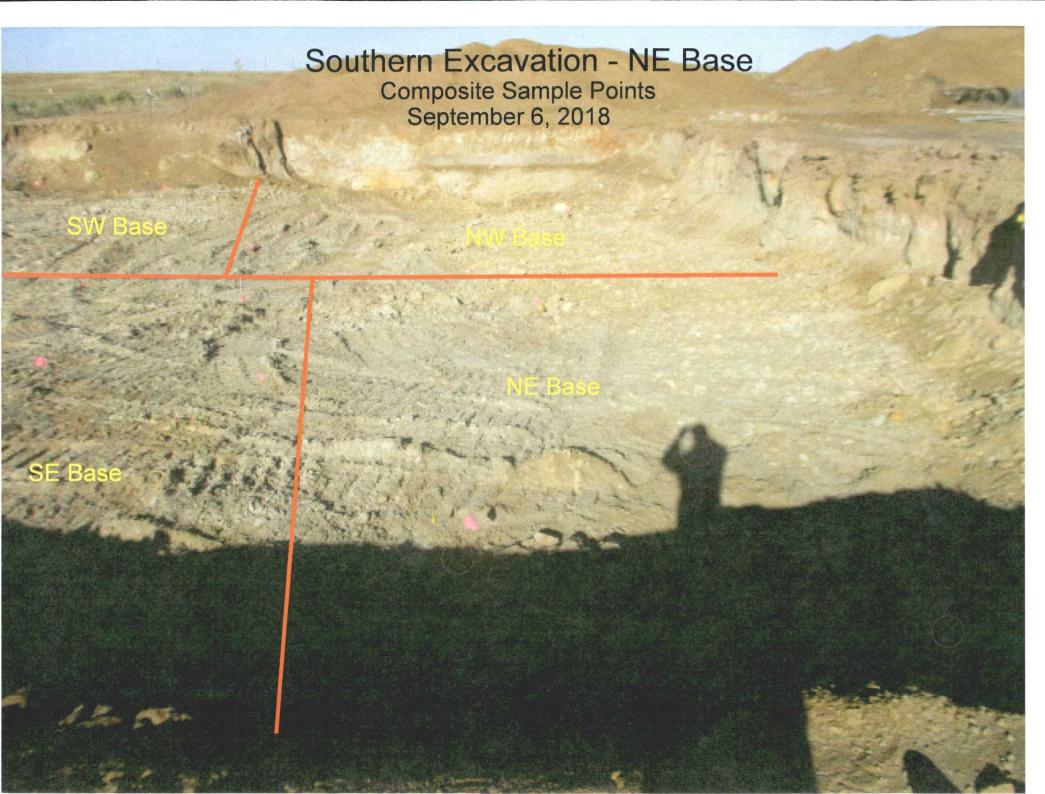
LACT Wall #2 Composite Sample Points September 6, 2018

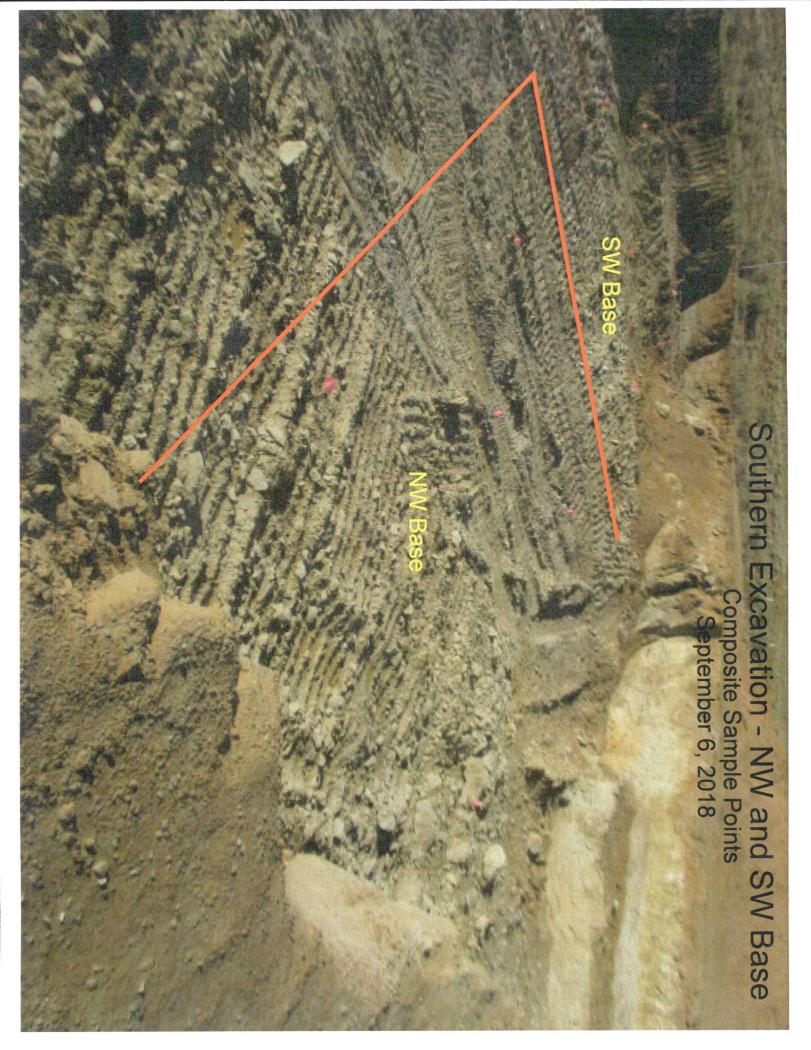
LACT Wall #3 Composite Sample Points September 6, 2018

# DJR Operating CBU Battery NE/4 NW/4 Sec 5 – T25N – R12W San Juan County, New Mexico Excavation Closure Laboratory Analytical Results

		2	September 6, 2018			
Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
NE Base	8'	1.2	ND + ND + ND = ND	ND	ND	290
NW Base	10.5'	2.3	ND + 2.3 + ND = 2.3	ND	ND	330
SW Base	8.5'	1.6	ND + 61 + 92 = 153	ND	ND	190
SE Base	5'	2.3	ND + ND + ND = ND	ND	ND	190
South Wall (West)	2'-6'	1.4	ND + 3 + ND = 3	ND	ND	590
West Wall (North)	2' - 8'	1.4	ND + 2.2 + ND = 2.2	ND	ND	130
North Wall (East)	2' - 7'	1.2	ND + 11 + ND = 11	ND	ND	300
East Wall (North)	2'-7'	1.7	ND + 100 + 240 = 340	ND	ND	240
East Wall (South)	2'-4'	0.9	ND + 120 + 210 = 330	ND	ND	650

South Excavation





# Southern Excavation - SW Base

Composite Sample Points September 6, 2018



Southern Excavation - West Wall (North) Composite Sample Points September 6, 2018



Southern Excavation - East Wall (North & South) Composite Sample Points September 6, 2018

East Wall (South)

East Wall (North)

1	8059-000	1



REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:DJR Operating, LLC1 Road 3263, Aztec NM 87410
2. Originating Site: CBU Tank Battery
3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM July 2018
<ol> <li>Source and Description of Waste: Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.</li> </ol>
Estimated Volume $1000 \text{ yds}$ yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) $7120$ yd <sup>3</sup> bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS 1, Mich Silves , representative or authorized agent for DJR Operating, LLC do hereby
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste.         Operator Use Only: Waste Acceptance Frequency I Monthly I Weekly Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
□ MSDS Information □ RCRA Hazardous Waste Analysis □ Process Knowledge □ Other (Provide description in Box 4)
I, Multy Silves , representative for DJR Operating, LLC authorize Envirotech to
Generator Signature complete the required testing/sign the Generator Waste Testing Certification.
I, <u>[Iveq Cia Stree</u> , representative for <u>Envirotech</u> do hereby certify that Representative/Agent Signature
Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6. Transporter: T&M Dirtworks, Adobe
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: Hilltop, New Mexico
Method of Treatment and/or Disposal:
Evaporation Injection Treating Plant Zandfarm Landfill Other
Waste Acceptance Status:
PRINT NAME: Grag Crabtree TITLE: Enviro. Manager DATE: 7/3/18
SIGNATURE: TELEPHONE NO.: 505-632-0615 Surface Waste Management Facility Authorized Agent

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

18059-0001 Form C-138 Revised 08/01/11

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address: DJR Operating, LLC 1 Road 3263, Aztec NM 87410
2. Originating Site:
CBU Tank Battery
3. Location of Material (Street Address, City, State or ULSTR): See. 5-T25N-R12W San Juan County, NM Aug. 2018
<ol> <li>Source and Description of Waste: Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.</li> </ol>
Estimated Volume $1000 \text{ yds}$ yd <sup>3</sup> /bbls Known Volume (to be entered by the operator at the end of the haul) $3324 \text{ yd}$ bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I,
Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste.         Operator Use Only: Waste Acceptance Frequency       Monthly       Weekly       Per Load
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)
🗆 MSDS Information 🔲 RCRA Hazardous Waste Analysis 📄 Process Knowledge 📄 Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, <u>May</u> , representative for DJR Operating, LLC authorize Envirotech to Generator Signature complete the required testing/sign the Generator Waste Testing Certification.
I, <u>Given Crabbere</u> , representative for <u>Envirotech</u> do hereby certify that Representative/Agent Signature
Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6. Transporter: T&M Dirtworks, Adobe
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: Hilltop, New Mexico
Method of Treatment and/or Disposal:
Evaporation Injection Treating Plant Landfarm ILandfill Other
Waste Acceptance Status:
PRINT NAME: Greg Crantree TITLE: Enviro. Manager DATE: 8/3/18
SIGNATURE:       Great Creatile       IIILE:       Critic.       Macroactile       DATE:       Applie         Surface Waste Management Facility Authorized Agent       TELEPHONE NO.:       505-632-0615       DATE:       Applie



		VAL TO ACCEPT	SOLID WASTE	
1. Generator Name and Addr DJR Operating, LLC	ress: 1 Road 3263, Aztec NM 87	410		
2. Originating Site: CBU Tank Battery				
3. Location of Material (Stre Sec. 5-T25N-R12W S	et Address, City, State or U an Juan County, NM	ULSTR):	Jep.	2018
4. Source and Description of Contaminated soil from ta		equipment failures containin	g iron sulfides and hydroc	arbons.
Estimated Volume 1000 yds	_yd <sup>3</sup> / bbls Known Volume	(to be entered by the operator	at the end of the haul)	280 (yd3/ bbls
	, representative or author		z, LLC Environmental Protection A	do hereby .gency's July 1988
		and gas exploration and produce <i>Frequency</i> Monthly		mixed with non-
characteristics established in	n RCRA regulations, 40 CFF	azardous that does not exceed 261.21-261.24, or listed hazar attached to demonstrate the ab	dous waste as defined in 40	CFR, part 261,
MSDS Information RC CENER TOP 10		rsis		
	1. representative for	Operating, LLC	authorize Env	
Representative/Agent Signat			do hereby cer	
Representative samples of the or have been found to conform to t of the representative samples are 19.15.36 NMAC.	he specific requirements app	licable to landfarms pursuant to	o Section 15 of 19.15.36 NN	AC. The results
6. Transporter: T&M Dirty	works, Adobe			
OCD Permitted Surface Waste	Management Facility			
Name and Facility Permit #:	#: Envirotech Inc. Soil Re	mediation Facility Perm	nit # NM-01-0011	
Address of Facility: Hilltop, I	New Mexico			
Method of Treatment and/or I	Disposal:			
Evaporation	Injection Treating	Plant 🛛 Landfarm 🗌	Landfill 🗌 Other	
Waste Acceptance Status:	APPROVED	DENIED	(Must Be Maintained As P	ermanent Record)
PRINT NAME: Gree Cree SIGNATURE: Surface Waste Mana	abtree	TITLE: Enviro M TELEPHONE NO.: 505-6		9/4/18

State of New Mexico Energy Minerals and Natural Resources (8059-000) Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-138 Revised 08/01/11

REQUEST FOR APPROVAL TO ACCEPT SOLID W	VASTE
1. Generator Name and Address:DJR Operating, LLC1 Road 3263, Aztec NM 87410	
2. Originating Site: CBU Tank Battery	
3. Location of Material (Street Address, City, State or ULSTR): Sec. 5-T25N-R12W San Juan County, NM	04.2018
<ol> <li>Source and Description of Waste: Contaminated soil from tank battery and production equipment failures containing iron sulfide</li> </ol>	es and hydrocarbons.
Estimated Volume 1000 yds yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of t	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STAT I, Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmentar regulatory determination, the above described waste is: (Check the appropriate classification)	do hereby
RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operation exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> Monthly Weekly	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as subpart D, as amended. The following documentation is attached to demonstrate the above-described the appropriate items)	s defined in 40 CFR, part 261,
	rovide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR Manual hest, representative for DJR Operating, LLC Generator Signature	authorize Envirotech to
complete the required testing/sign the Generator Waste Testing Certification. I, <u>Fay</u> <u>Grey Grad Mar</u> , representative for <u>Fay Wolfectual</u> Representative/Agent Signature Representative samples of the oil field waste have been subjected to the paint filter test and tested for child have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 co of the representative samples are attached to demonstrate the above-described waste conform to the requi 19.15.36 NMAC.	of 19.15.36 NMAC. The results
6. Transporter: T&M Dirtworks, Adade	
OCD Permitted Surface Waste Management Facility         Name and Facility Permit #:         #:       Envirotech Inc. Soil Remediation Facility         Permit # NM-01-0         Address of Facility:       Hilltop, New Mexico	0011
Method of Treatment and/or Disposal:	
Evaporation Injection Treating Plant Landfarm Landfill	Other
Waste Acceptance Status: DENIED (Must Be Ma	aintained As Permanent Record)
PRINT NAME: Greg Crabtree TITLE: Enviro Maxager SIGNATURE: Surface Waste Management Facility Authorized Agent TELEPHONE NO.: 505-632-0615	<u>-</u> date: <u>10/5/14</u>

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

(8059-0001 Form C-138 Revised 08/01/11

RE	QUEST FOR APPROV	VAL TO ACC	CEPT SOLID W	ASTE
1. Generator Name and A DJR Operating, LLC	ddress: 1 Road 3263, Aztec NM 874	10		
2. Originating Site: CBU Tank Battery				
3. Location of Material (S Sec. 5-T25N-R12W	Street Address, City, State or UL San Juan County, NM	STR):		Nov. 2018
4. Source and Description Contaminated soil from	<b>of Waste:</b> 1 tank battery and production e	juipment failures c	ontaining iron sulfides	and hydrocarbons.
Estimated Volume 1000 yd	<sup>S</sup> _yd <sup>3</sup> / bbls Known Volume (			C.
	GENERATOR CERTIFICAT , representative or authoriz Resource Conservation and Recov above described waste is: (Check	ed agent for DJR C	Deperating, LLC	do hereby
	field wastes generated from oil an ator Use Only: Waste Acceptance			
characteristics establishe	: Oil field waste which is non-haz d in RCRA regulations, 40 CFR 2 The following documentation is a	61.21-261.24, or list	ed hazardous waste as c	lefined in 40 CFR, part 261,
$\square$	RCRA Hazardous Waste Analysi		-	vide description in Box 4)
I, May Shes Generator Signature	19.15.36.15 WASTE TESTING ( , representative forDJR ( /sign the Generator Waste Testing	perating, LLC		ANDFARMS uthorize Envirotech to
Representative/Agent Sign				o hereby certify that
have been found to conform t	e oil field waste have been subject to the specific requirements applic are attached to demonstrate the ab	able to landfarms pu	rsuant to Section 15 of	19.15.36 NMAC. The results
	irtworks, Leggy Mille	r, Rosenb	e k M	
OCD Permitted Surface Was	te Management Facility			
Name and Facility Permit #	: #: Envirotech Inc. Soil Reme	diation Facility	Permit # NM-01-001	11
Address of Facility: Hillton	p, New Mexico			
Method of Treatment and/o	r Disposal:			
Evaporation	Injection Treating P	ant 🛛 Landfarm	Landfill	Dther
Waste Acceptance Status:	APPROVED	🗌 D	ENIED (Must Be Main	tained As Permanent Record)
PRINT NAME: <b>Greg</b> SIGNATURE: Surface Waste M	11 _1	TITLE: Env: TELEPHONE NO.:		DATE: 11/8/18

## 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

September 24, 2018 Amy Archuleta Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199

RE: CBU Battery North Dig

OrderNo.: 1809374

Dear Amy Archuleta:

FAX (505) 632-3903

C.

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/7/2018 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 <u>www.hallenvironmental.com</u> 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Ana	lytical	Repor	rt
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### Lab Order 1809374

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Date Reported: 9/24/2018 Client Sample ID: NE Base #1 (East) Collection Date: 9/6/2018 11:19:00 AM

CBU Battery North Dig **Project:** Collection Date: 9/6/2018 11:19:00 AM Lab ID: 1809374-001 Matrix: SOIL Received Date: 9/7/2018 6:30:00 AM Result **PQL** Qual Units Analyses **DF** Date Analyzed Batch EPA METHOD 300.0: ANIONS Analyst: SRM Chloride ND 30 mg/Kg 9/22/2018 4:51:50 AM 40513 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM **Diesel Range Organics (DRO)** 96 9.7 mg/Kg 9/12/2018 2:57:22 PM 40268 1 Motor Oil Range Organics (MRO) 94 9/12/2018 2:57:22 PM 40268 49 mg/Kg 1 Surr: DNOP 9/12/2018 2:57:22 PM 99.9 50.6-138 %Rec 1 40268 EPA METHOD 8015D: GASOLINE RANGE Analyst: NSB Gasoline Range Organics (GRO) ND 9/9/2018 10:14:14 PM 40223 4.6 mg/Kg 1 Surr: BFB 71.4 15-316 %Rec 1 9/9/2018 10:14:14 PM 40223

EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.023		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Toluene	ND	0.046		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Xylenes, Total	ND	0.092		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Surr: 4-Bromofluorobenzene	68.0	80-120	S	%Rec	1	9/9/2018 10:14:14 PM	40223

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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#### Lab Order **1809374** Date Reported: **9/24/2018**

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Project: CBU Battery North Dig

Client Sample ID: NE Base #2 (West) Collection Date: 9/6/2018 11:35:00 AM Received Date: 9/7/2018 6:30:00 AM

Lab ID: 1809374-002	Matrix: SOIL	Received Date: 9/7/2018 6:30:00 AM					
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SRM
Chloride	ND	30		mg/Kg	20	9/22/2018 5:04:15 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	TOM
Diesel Range Organics (DRO)	290	9.7		mg/Kg	1	9/12/2018 4:11:21 PM	40268
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	9/12/2018 4:11:21 PM	40268
Surr: DNOP	108	50.6-138		%Rec	1	9/12/2018 4:11:21 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Surr: BFB	101	15-316		%Rec	1	9/9/2018 10:37:25 PM	40223
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Toluene	ND	0.046		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Surr: 4-Bromofluorobenzene	71.6	80-120	S	%Rec	1	9/9/2018 10:37:25 PM	40223

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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## Lab Order 1809374

Date Reported: 9/24/2018

9/12/2018 4:36:04 PM

9/9/2018 11:00:36 PM

40268

40223

40223

40223

40223

40223

40223

40223

Analyst: NSB

Analyst: NSB

#### Hall Environmental Analysis Laboratory, Inc.

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

CLIENT:	Blagg Engineering	Client Sample ID: LACT Base #1 Collection Date: 9/6/2018 11:48:00 AM						
<b>Project:</b>	CBU Battery North Dig							
Lab ID:	1809374-003	Matrix: SOIL	Matrix: SOIL Received Date: 9/7/2018 6:30:00 AM					
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	SRM	
Chloride		ND	30	mg/Kg	20	9/22/2018 5:41:29 AM	40513	
EPA MET				Analyst	том			
Diesel Ra	ange Organics (DRO)	85	9.6	mg/Kg	1	9/12/2018 4:36:04 PM	40268	
Motor Oi	Range Organics (MRO)	53	48	mg/Kg	1	9/12/2018 4:36:04 PM	40268	

101

ND

75.9

ND

ND

ND

ND

69.7

50.6-138

4.9

15-316

0.025

0.049

0.049

0.099

80-120

S

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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#### Lab Order 1809374

Date Reported: 9/24/2018

Analyst: NSB

9/10/2018 12:33:47 AM 40223

### Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT: Project:	Blagg Engineering CBU Battery North Dig		Client Sample ID: LACT Base #2 Collection Date: 9/6/2018 11:55:00 AM						
Lab ID:	1809374-004	Matrix: SOIL		Received Date	e: 9/7	/2018 6:30:00 AM			
Analyses	;	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	THOD 300.0: ANIONS					Analyst	SRM		
Chloride		ND	30	mg/Kg	20	9/22/2018 6:18:43 AM	40513		
EPA MET	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	TOM		
Diesel R	ange Organics (DRO)	46	9.9	mg/Kg	1	9/12/2018 5:00:54 PM	40268		
Motor Oi	il Range Organics (MRO)	ND	50	mg/Kg	1	9/12/2018 5:00:54 PM	40268		
Surr:	DNOP	98.3	50.6-138	%Rec	1	9/12/2018 5:00:54 PM	40268		
EPA MET	THOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB		
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	9/10/2018 12:33:47 AM	40223		
Surr:	BFB	78.3	15-316	%Rec	1	9/10/2018 12:33:47 AM	40223		

ND

ND

ND

ND

69.7

0.025

0.050

0.050

0.10

S

80-120

mg/Kg 1

1

1

1

1

mg/Kg

mg/Kg

mg/Kg

%Rec

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

**Analytical Report** 

#### Lab Order 1809374

Date Reported: 9/24/2018

### Hall Environmental Analysis Laboratory, Inc.

EPA ME	THOD 300.0: ANIONS			Analys	st: SRM			
Analyses	8	Result	PQL Qual Units	DF Date Analyzed	Batch			
Lab ID:	1809374-005	Matrix: SOIL	Received Dat	te: 9/7/2018 6:30:00 AM				
Project:	CBU Battery North Dig	Collection Date: 9/6/2018 12:07:00 PM						
CLIENT:	: Blagg Engineering	<b>Client Sample ID:</b> LACT Base #3						

EPA METHOD 300.0: ANIONS						Analyst:	SRM
Chloride	ND	30		mg/Kg	20	9/22/2018 6:31:07 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst:	том
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	9/12/2018 5:25:35 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 5:25:35 PM	40268
Surr: DNOP	104	50.6-138		%Rec	1	9/12/2018 5:25:35 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Surr: BFB	76.4	15-316		%Rec	1	9/10/2018 12:57:05 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Surr: 4-Bromofluorobenzene	70.5	80-120	S	%Rec	1	9/10/2018 12:57:05 AM	40223

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical	Report
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#### Lab Order 1809374

Date Reported: 9/24/2018

9/10/2018 1:20:17 AM

40223

40223

40223

40223

40223

40223

40223

Analyst: NSB

### Hall Environmental Analysis Laboratory, Inc.

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

CLIENT:	Blagg Engineering			Cl	ient Sa	mple II	):LA	CT Base #4	
Project:	CBU Battery North Dig			(	Collect	ion Dat	e: 9/6	/2018 12:13:00 PM	
Lab ID:	Matrix: SOIL Received Date: 9/7/2018 6:30:00 AM								
Analyses		Re	esult	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS							Analyst	SRM
Chloride			ND	30		mg/Kg	20	9/22/2018 6:43:31 AM	40513
EPA MET	THOD 8015M/D: DIESEL RANG	E ORGANIC	S					Analyst	том
Diesel R	ange Organics (DRO)		ND	10		mg/Kg	1	9/12/2018 5:50:17 PM	40268
Motor Oi	I Range Organics (MRO)		ND	50		mg/Kg	1	9/12/2018 5:50:17 PM	40268
Surr: I	DNOP		98.8	50.6-138		%Rec	1	9/12/2018 5:50:17 PM	40268
EPA MET	THOD 8015D: GASOLINE RANG	GE						Analyst	NSB

ND

76.3

ND

ND

ND

ND

71.0

4.8

15-316

0.024

0.048

0.048

0.096

80-120

S

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

D 0 .1 000 information.

Refe	er to th	e QC Summary report and sample login checkli	st for flagg	ged QC data and preservation in
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Me
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation li
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

- S % Recovery outside of range due to dilution or matrix
- lethod Blank
- limits Page 6 of 13
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Anal	vtical	Repor	·t

#### Lab Order 1809374

Date Reported: 9/24/2018

9/10/2018 1:43:28 AM

Analyst: NSB

Analyst: NSB

40223

40223

40223

40223

40223

40223

40223

13

#### Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Lab ID:

#### **CLIENT:** Blagg Engineering Client Sample ID: LACT Wall #1 **Project:** CBU Battery North Dig Collection Date: 9/6/2018 12:21:00 PM 1809374-007 Matrix: SOIL Received Date: 9/7/2018 6:30:00 AM Result Analyses PQL Qual Units **DF** Date Analyzed Batch EPA METHOD 300.0: ANIONS Analyst: SRM Chloride 43 30 mg/Kg 20 9/22/2018 6:55:56 AM 40513 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 9/12/2018 6:14:54 PM 40268 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 9/12/2018 6:14:54 PM 40268 Surr: DNOP 92.3 50.6-138 9/12/2018 6:14:54 PM %Rec 1 40268

4.7

15-316

0.023

0.047

0.047

0.094

80-120

S

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

75.6

ND

ND

ND

ND

70.8

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order **1809374** Date Reported: **9/24/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Lab ID:

Project: CBU Battery North Dig

1809374-008

#### Client Sample ID: LACT Wall #2 Collection Date: 9/6/2018 12:26:00 PM Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SRM
Chloride	68	30		mg/Kg	20	9/22/2018 7:08:22 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	том
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	9/12/2018 6:39:33 PM	40268
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	9/12/2018 6:39:33 PM	40268
Surr: DNOP	101	50.6-138		%Rec	1	9/12/2018 6:39:33 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Surr: BFB	76.2	15-316		%Rec	1	9/10/2018 2:06:41 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Toluene	ND	0.049		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Surr: 4-Bromofluorobenzene	70.0	80-120	S	%Rec	1	9/10/2018 2:06:41 AM	40223

Matrix: SOIL

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1809374

Date Reported: 9/24/2018

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Lab ID:

Project: CBU Battery North Dig

1809374-009

### Client Sample ID: LACT Wall #3 Collection Date: 9/6/2018 12:34:00 PM Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SRM
Chloride	ND	30		mg/Kg	20	9/22/2018 7:20:47 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst	Irm
Diesel Range Organics (DRO)	60	10		mg/Kg	1	9/13/2018 11:55:23 AM	40268
Motor Oil Range Organics (MRO)	98	50		mg/Kg	1	9/13/2018 11:55:23 AM	40268
Surr: DNOP	112	50.6-138		%Rec	1	9/13/2018 11:55:23 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Surr: BFB	75.1	15-316		%Rec	1	9/10/2018 2:29:54 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.023		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Toluene	ND	0.046		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Surr: 4-Bromofluorobenzene	70.3	80-120	S	%Rec	1	9/10/2018 2:29:54 AM	40223

Matrix: SOIL

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
1	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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

Client:Blagg EngineeringProject:CBU Battery North Dig

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Sample ID MB-40513	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 40513	RunNo: 54344		
Prep Date: 9/21/2018	Analysis Date: 9/22/2018	SeqNo: 1798820	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
	110			
Sample ID LCS-40513	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-40513 Client ID: LCSS		TestCode: EPA Method RunNo: 54344	300.0: Anions	
	SampType: LCS		300.0: Anions Units: mg/Kg	
Client ID: LCSS	SampType: LCS Batch ID: 40513 Analysis Date: 9/22/2018	RunNo: <b>54344</b>		RPDLimit Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 10 of 13

WO#: 1809374

24-Sep-18

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

**Client: Blagg Engineering Project:** CBU Battery North Dig

Sample ID 1809374-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: NE Base #1 (Eas	t) Batch ID: 40268	RunNo: <b>54034</b>						
Prep Date: 9/11/2018	Analysis Date: 9/12/2018	SeqNo: 1788343	Units: mg/Kg					
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	t HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DRO)	170 9.9 49.2	6 96.10 154 53.5	126	S				
Surr: DNOP	5.0 4.92	6 101 50.6	138					
Sample ID 1809374-001AMS	SD SampType: MSD	TestCode: EPA Metho	d 8015M/D: Diesel Range	Organics				
Client ID: NE Base #1 (Eas	t) Batch ID: 40268	RunNo: 54034						
Prep Date: 9/11/2018	Analysis Date: 9/12/2018	SeqNo: 1788344	Units: mg/Kg					
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	0	RPDLimit Qual				
Diesel Range Organics (DRO)	150 9.6 48.1	7 96.10 102 53.5	126 16.7	21.7				
Surr: DNOP	4.9 4.81	7 101 50.6	i 138 0	0				
Sample ID LCS-40268	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 40268	RunNo: <b>54034</b>						
Prep Date: 9/11/2018	Analysis Date: 9/12/2018	SeqNo: 1788364	Units: mg/Kg					
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	t HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DRO)	46 10 50.0	0 0 92.3 70	130					
Surr: DNOP	3.9 5.00	0 78.4 50.6	138					
Sample ID MB-40268	SampType: MBLK	TestCode: EPA Metho	d 8015M/D: Diesel Range	Organics				
Client ID: PBS	Batch ID: 40268	RunNo: 54034						
Prep Date: 9/11/2018	Analysis Date: 9/12/2018	SeqNo: 1788365	Units: mg/Kg					
Analyte		e SPK Ref Val %REC LowLimit	t HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DRO)	ND 10							
Motor Oil Range Organics (MRO)	ND 50	A						
Surr: DNOP	8.3 10.0	0 82.8 50.6	138					

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
  - Sample pH Not In Range
- RL Reporting Detection Limit

Р

W Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

Page 11 of 13

24-Sep-18

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

Blagg Engineering **Client: Project:** CBU Battery North Dig

Sample ID MB-40223	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: 40	223	RunNo: <b>54017</b>						
Prep Date: 9/7/2018	Analysis Date: 9/9/2018		SeqNo: 1784288		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	790		1000		78.6	15	316			
Sample ID LCS-40223	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 40	223	RunNo: <b>54017</b>						
Prep Date: 9/7/2018	Analysis Date: 9/9/2018			S	eqNo: 1	784289	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	75.9	131			
Surr: BFB										
SUII. DED	910		1000		91.1	15	316			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Page 12 of 13

WO#:

1809374 24-Sep-18

Client:Blagg EngineeringProject:CBU Battery North Dig

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Sample ID	MB-40223	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	h ID: 40	223	F	RunNo: 5	4017				
Prep Date:	9/7/2018	Analysis D	Date: 9/	9/2018	S	SeqNo: 1	784328	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								
,	nofluorobenzene	0.73		1.000		73.0	80	120			S
Sample ID	LCS-40223	Samp1	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batcl	h ID: 40	223	F	RunNo: 5	4017				
Prep Date:	9/7/2018	Analysis D	Date: 9/	9/2018	S	SeqNo: 1	784329	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	87.0	77.3	128			
Toluene		0.91	0.050	1.000	0	91.1	79.2	125			
Ethylbenzene		0.91	0.050	1.000	0	91.4	80.7	127			
5		0.0	0.10	3.000	0	92.4	81.6	129			
Xylenes, Total		2.8	0.10								
	nofluorobenzene	0.77	0.10	1.000	0	76.6	80	120			S
Surr: 4-Brom		0.77		1.000		76.6	80	120	tiles		S
Surr: 4-Brom Sample ID	1809374-001AMS	0.77 Samp1	Гуре: МS	1.000	Tes	76.6 tCode: El	80 PA Method		tiles		S
Surr: 4-Brom Sample ID Client ID:	1809374-001AMS NE Base #1 (Eas	0.77 S SampT t) Batcl	Гуре: <b>МS</b> h ID: <b>40</b>	1.000 \$ 223	Tes	76.6 tCode: El RunNo: 5	80 PA Method 4017	120 8021B: Vola			S
Surr: 4-Brom Sample ID Client ID: Prep Date:	1809374-001AMS NE Base #1 (Eas	0.77 Samp1 t) Batcl Analysis E	Type: <b>MS</b> h ID: <b>40</b> Date: <b>9</b> /	1.000 \$ 223 9/2018	Tes F S	76.6 tCode: El RunNo: 5 SeqNo: 1	80 PA Method 4017 784332	120 8021B: Volat Units: mg/M	(g	RPDI imit	
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	1809374-001AMS NE Base #1 (Eas	0.77 Samp1 t) Batcl Analysis D Result	Fype: <b>MS</b> h ID: <b>40</b> Date: <b>9</b> / PQL	1.000 5 223 9/2018 SPK value	Tes F S SPK Ref Val	76.6 tCode: <b>El</b> RunNo: <b>5</b> SeqNo: <b>1</b> %REC	80 PA Method 4017 784332 LowLimit	120 8021B: Volat Units: mg/M HighLimit		RPDLimit	S
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	1809374-001AMS NE Base #1 (Eas	0.77 SampT t) Batcl Analysis D Result 0.76	Fype: <b>MS</b> h ID: <b>40</b> Date: <b>9</b> / PQL 0.023	1.000 223 9/2018 SPK value 0.9191	Tes F S SPK Ref Val 0	76.6 tCode: El RunNo: 5 SeqNo: 1' %REC 82.3	80 PA Method 4017 784332 LowLimit 68.5	120 8021B: Volat Units: mg/K HighLimit 133	(g	RPDLimit	
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1809374-001AMS NE Base #1 (Eas	0.77 Samp1 t) Batcl Analysis E Result 0.76 0.80	Type: MS h ID: 40; Date: 9/ PQL 0.023 0.046	1.000 3 223 9/2018 SPK value 0.9191 0.9191	Tes F SPK Ref Val 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5	80 PA Method 4017 784332 LowLimit 68.5 75	120 8021B: Volat Units: mg/# HighLimit 133 130	(g	RPDLimit	
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1809374-001AMS NE Base #1 (Eas	0.77 Samp1 t) Batcl Analysis E Result 0.76 0.80 0.81	Fype: MS h ID: 402 Date: 9/ PQL 0.023 0.046 0.046	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191	Tes F SPK Ref Val 0 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1' %REC 82.3 87.5 88.4	80 PA Method 4017 784332 LowLimit 68.5 75 79.4	120 8021B: Volat Units: mg/k HighLimit 133 130 128	(g	RPDLimit	
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1809374-001AMS NE Base #1 (Eas 9/7/2018	0.77 Samp1 t) Batcl Analysis E Result 0.76 0.80 0.81 2.5	Type: MS h ID: 40; Date: 9/ PQL 0.023 0.046	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757	Tes F SPK Ref Val 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3	120 8021B: Volat Units: mg/k HighLimit 133 130 128 131	(g	RPDLimit	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	1809374-001AMS NE Base #1 (Eas 9/7/2018	0.77 Samp1 t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70	Type: <b>MS</b> h ID: <b>40</b> ; Date: <b>9</b> / PQL 0.023 0.046 0.046 0.092	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191	Tes F SPK Ref Val 0 0 0 0.01219	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80	120 8021B: Volat Units: mg/k HighLimit 133 130 128 131 120	<b>(g</b> %RPD	RPDLimit	
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS	0.77 SampT t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SampT	Fype: <b>MS</b> h ID: <b>40</b> Date: <b>9</b> / PQL 0.023 0.046 0.092 Fype: <b>MS</b>	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 SD	Tes F SPK Ref Val 0 0 0 0.01219 Tes	76.6 tCode: EI RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: EI	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80 PA Method	120 8021B: Volat Units: mg/k HighLimit 133 130 128 131	<b>(g</b> %RPD	RPDLimit	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID:	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 S SampT t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SD SampT t) Batcl	Type: MS h ID: 40: Date: 9/ PQL 0.023 0.046 0.046 0.092 Type: MS h ID: 40:	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 SD 223	Tes F SPK Ref Val 0 0 0 0 0.01219 Tes F	76.6 tCode: El RunNo: 5 SeqNo: 1' %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80 PA Method 4017	120 8021B: Volat Units: mg/K HighLimit 133 130 128 131 120 8021B: Volat	(g %RPD tiles	RPDLimit	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 SampT t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SampT	Type: MS h ID: 40: Date: 9/ PQL 0.023 0.046 0.046 0.092 Type: MS h ID: 40:	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 SD 223	Tes F SPK Ref Val 0 0 0 0 0.01219 Tes F	76.6 tCode: EI RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: EI RunNo: 5 SeqNo: 1	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80 PA Method 4017	120 8021B: Volat Units: mg/k HighLimit 133 130 128 131 120	(g %RPD tiles		Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 S Samp <sup>T</sup> t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SD Samp <sup>T</sup> t) Batcl Analysis D Result	Fype: MS h ID: 402 Date: 9/ PQL 0.023 0.046 0.046 0.092 Fype: MS h ID: 402 Date: 9/ PQL	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 5D 223 9/2018 SPK value	Tes SPK Ref Val 0 0 0 0.01219 Tes F SPK Ref Val	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5 SeqNo: 1 %REC	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80 PA Method 4017 784333 LowLimit	120 8021B: Volat Units: mg/k HighLimit 133 130 128 131 120 8021B: Volat Units: mg/k HighLimit	(g %RPD tiles (g %RPD	RPDLimit	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 S Samp <sup>T</sup> t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SD Samp <sup>T</sup> t) Batcl Analysis D Result 0.84	Fype: MS h ID: 402 Date: 9/ PQL 0.023 0.046 0.046 0.092 Fype: MS h ID: 402 Date: 9/ PQL 0.025	1.000 223 9/2018 SPK value 0.9191 0.9191 2.757 0.9191 2.757 0.9191 5D 223 9/2018 SPK value 0.9990	Tes SPK Ref Val 0 0 0 0.01219 Tes F SPK Ref Val 0	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5 SeqNo: 1 %REC 84.3	80 PA Method 4017 784332 LowLimit 68.5 75 79.4 77.3 80 PA Method 4017 784333 LowLimit 68.5	120 8021B: Volat Units: mg/K HighLimit 133 130 128 131 120 8021B: Volat Units: mg/K HighLimit 133	(g %RPD tiles (g %RPD 10.8	RPDLimit 20	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 S SampT t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SD SampT t) Batcl Analysis D Result 0.84 0.91	Fype: MS h ID: 402 Date: 9/ PQL 0.023 0.046 0.046 0.092 Fype: MS h ID: 402 Date: 9/ PQL 0.025 0.050	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 223 9/2018 SPK value 0.9990 0.9990 0.9990	Tes 5 SPK Ref Val 0 0 0 0 0.01219 Tes F SPK Ref Val 0 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5 SeqNo: 1 %REC 84.3 90.8	80 PA Method 4017 784332 LowLimit 68.5 79.4 77.3 80 PA Method 4017 784333 LowLimit 68.5 75	120 8021B: Volat Units: mg/K HighLimit 133 130 128 131 120 8021B: Volat Units: mg/K HighLimit 133 130	(g %RPD tiles (g %RPD 10.8 12.0	RPDLimit 20 20	Qual
Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 <b>S</b> Samp <sup>T</sup> <b>t</b> ) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 <b>SD</b> Samp <sup>T</sup> <b>t</b> ) Batcl Analysis D Result 0.84 0.91 0.91	Fype: MS h ID: 40: Date: 9/ PQL 0.023 0.046 0.046 0.092 Fype: MS h ID: 40: Date: 9/ PQL 0.025 0.050 0.050	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 5D 223 9/2018 SPK value 0.9990 0.9990 0.9990	Tes 5 5PK Ref Val 0 0 0 0 0 0 0 0 0 0 5PK Ref Val 0 0 0 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1' %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5 SeqNo: 1' %REC 84.3 90.8 91.4	80 PA Method 4017 784332 LowLimit 68.5 79.4 77.3 80 PA Method 4017 784333 LowLimit 68.5 75 79.4	120 8021B: Volat Units: mg/K HighLimit 133 130 128 131 120 8021B: Volat Units: mg/K HighLimit 133 130 128	(g %RPD tiles (g %RPD 10.8 12.0 11.7	RPDLimit 20 20 20	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	1809374-001AMS NE Base #1 (Eas 9/7/2018 nofluorobenzene 1809374-001AMS NE Base #1 (Eas	0.77 S SampT t) Batcl Analysis D Result 0.76 0.80 0.81 2.5 0.70 SD SampT t) Batcl Analysis D Result 0.84 0.91	Fype: MS h ID: 402 Date: 9/ PQL 0.023 0.046 0.046 0.092 Fype: MS h ID: 402 Date: 9/ PQL 0.025 0.050	1.000 223 9/2018 SPK value 0.9191 0.9191 0.9191 2.757 0.9191 223 9/2018 SPK value 0.9990 0.9990 0.9990	Tes 5 SPK Ref Val 0 0 0 0 0.01219 Tes F SPK Ref Val 0 0 0	76.6 tCode: El RunNo: 5 SeqNo: 1 %REC 82.3 87.5 88.4 89.4 76.0 tCode: El RunNo: 5 SeqNo: 1 %REC 84.3 90.8	80 PA Method 4017 784332 LowLimit 68.5 79.4 77.3 80 PA Method 4017 784333 LowLimit 68.5 75	120 8021B: Volat Units: mg/K HighLimit 133 130 128 131 120 8021B: Volat Units: mg/K HighLimit 133 130	(g %RPD tiles (g %RPD 10.8 12.0	RPDLimit 20 20	Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 13 of 13

WO#: **1809374** 24-Sep-18

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-3975 Website: www.ha	4901 Hawl uquerque, NM 5 FAX: 505-34	tins NE 187109 Sar 5-4107	nple Log-In C	heck List
Client Name: DJR OPERATING	Work Order Number	: 1809374		RcptNo:	1
Received By: Anne Thome Completed By: Anne Thome Reviewed By: TO Laberful by FLING	9/7/2018 6:30:00 AM 9/7/2018 9:15:48 AM 09 09 18 9:15:48 AM		Anne H. Anne H.	~	
Chain of Custody	1/1/18_				
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 sam	iples?	Yes 🗹	No 🗍	NA 🗌	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated	test(s)?	Yes 🖌	No 🗌		
7. Are samples (except VOA and ONG) p	properly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes	No 🖌	NA 🗌	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received	broken?	Yes	No 🗹	# of preserved	115
11. Does paperwork match bottle labels? (Note discrepancies on chain of custor	ty)	Yes 🗹	No 🗌	for pH:	>12 unless noted)
12. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested	d?	Yes 🗹	No	$\langle \mathcal{I} \rangle$	
14. Were all holding times able to be met? (If no, notify customer for authorization		Yes 🖌	No 🗌	Checked by:	
Special Handling (if applicable)	-)		/		
15. Was client notified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Value and the address of the	November and the second se				1
Person Notified:	Date			Cill In Demonstra	
By Whom:	Via: [	eMail	Phone 🗌 Fax	In Person	
Regarding: Client Instructions:	and a second	- NORODO (1990) -	contraction of the second s		
16. Additional remarks:					]
17. <u>Cooler Information</u>	Sant Internal Developed	Copl Defe	Closed Dr.	4	
Cooler No         Temp °C         Condition           2         1.2         Good	Yes	Seal Date	Signed By	-	
				.1	

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С	hain	of-Cu	stody Record	Turn-Arou	nd Time:																	
Client:	DJ	R	OPERATING	Stand		1	, <sup>4</sup>		21													
	BLAG	6 ENG	INDERING	CBU BATTERT- NORTH DIG					1	1			/.hall									
Mailing	Address	:	V	CBL	1 BATTERF-	- NORTH	0/10-		49	01 H	awki	ins N	E -	Alb	uque	erqu	e, NI	M 87	109			
				Project #:		5 8	· · ·		Te	el. 50	5-34	15-39	975	F	ax	505-	345-	410	7			
Phone #	#: SC	)5-3	20 - 1183										A	naly	/sis	Req	uest					
email or	Fax#:			Project Ma	anager:			(1	(yluo	RO)		1			04)	s						
QA/QC F	-		Level 4 (Full Validation)	A	MY ARCHI	ULETA		s (8021)	TPH (Gas o	/ DRO / MRO)			SIMS)		PO <sub>4</sub> ,S	PCB						
Accredi					JEAF BLA			SEHAT	Hd		<del>,</del>	÷.	10		NO2	8082						Î
		□ Othe	۲		X Yes		- <u> </u>	H.	+	GRO	418	504	or 82	S	10 <sub>3</sub> ,	es /		(AO)				٦ ا
	(Type)_			Sample n	emperature 2/	Contraction of the second	<u>li 2 -</u>	MEBE	MTBE	5B ((	thod	thod	310	Meta	CI,I	sticid	(VOA)	v-imi	CINE			es ()
Date	Time	Matrix	Sample Request ID	Containe Type and		HEA	Contractor States	BTEX + (	BTEX + [	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	<b>RCRA 8 Metals</b>	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLORINE			Air Bubbles (Y
9/6/2019	1119	SOIL	NE BASE \$1 (EAST)	HOZX	Cool	N. O. Salana	105-	X		X	-			- Laker					X			
1	1135		NE BALE#2 (West)	1		2	202	1		1									1	5 (s) (3.4)		
	1148		LACT BASE #1				- 203														*	
	1155		LACT BASE #2				-204															
	1207		LACT BASE \$3				-205															
	1213		LACT BASE #4			а. -	- zdo															
	1221		LAOT WALL #1				wi															
	1226		LACT WALL #2				208											8				
1	1234	1	LACT WALL#3	1	1		-009			1				_	<i></i>				1		_	
		×.			2 A											4					_	$\square$
						~	a Maran kantalah pertahan para dari															
Date:	Time: (436 Time:	Relinquish	1 Slogy	Received by	-Walt	Date 9)	Time 1630 Time 67/78	Rei	mark	s: Ē	BILL	_ ]	)J	R								
9/4/18	1748 necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to oth	er accredited laboratori	The	130	poss	ibility.	Any su	b-conf	tracted	data v	will be	clearl	y nota	ited on	the a	nalytica	al repor	t.	

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 27, 2018

Amy Archuleta Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: CBU Battery South Dig

OrderNo.: 1809377

Dear Amy Archuleta:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/7/2018 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 <u>www.hallenvironmental.com</u> 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Lab Order 1809377

Date Reported: 9/27/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: CBU Battery South Dig			nt Sample II Ilection Date		2 Base /2018 1:24:00 PM	
Lab ID: 1809377-001	Matrix: SOIL				/2018 6:30:00 AM	
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: SRM
Chloride	290	30	mg/Kg	20	9/22/2018 7:33:11 AM	40513
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: TOM

Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2018 7:28:41 PM	40268
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2018 7:28:41 PM	40268
Surr: DNOP	91.5	50.6-138	%Rec	1	9/12/2018 7:28:41 PM	40268
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2018 2:53:05 AM	40223
Surr: BFB	77.2	15-316	%Rec	1	9/10/2018 2:53:05 AM	40223
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
EPA METHOD 8021B: VOLATILES Benzene	ND	0.024	mg/Kg	1	Analyst: 9/10/2018 2:53:05 AM	<b>NSB</b> 40223
	ND ND	0.024 0.049	mg/Kg mg/Kg	1 1	,	
Benzene			0 0	1 1 1	9/10/2018 2:53:05 AM	40223
Benzene Toluene	ND	0.049	mg/Kg	1 1 1 1	9/10/2018 2:53:05 AM 9/10/2018 2:53:05 AM	40223 40223

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

### Lab Order 1809377

Date Reported: 9/27/2018

### Hall Environmental Analysis Laboratory, Inc.

Xylenes, Total

Surr: 4-Bromofluorobenzene

CLIENT:Blagg EngineeringProject:CBU Battery South DigLab ID:1809377-002	ttery South Dig				Client Sample ID: NW Base Collection Date: 9/6/2018 1:33:00 PM Received Date: 9/7/2018 6:30:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch						
EPA METHOD 300.0: ANIONS					Analyst	SRM						
Chloride	330	30	mg/Kg	20	9/22/2018 8:10:25 AM	40513						
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	том						
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/12/2018 7:53:08 PM	40268						
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/12/2018 7:53:08 PM	40268						
Surr: DNOP	92.0	50.6-138	%Rec	1	9/12/2018 7:53:08 PM	40268						
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB						
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/10/2018 3:16:23 AM	40223						
Surr: BFB	76.4	15-316	%Rec	1	9/10/2018 3:16:23 AM	40223						
EPA METHOD 8021B: VOLATILES					Analyst	NSB						
Benzene	ND	0.023	mg/Kg	1	9/10/2018 3:16:23 AM	40223						
Toluene	ND	0.047	mg/Kg	1	9/10/2018 3:16:23 AM	40223						
Ethylbenzene	ND	0.047	mg/Kg	1	9/10/2018 3:16:23 AM	40223						

ND

71.0

0.094

S

80-120

mg/Kg

%Rec

1

1

9/10/2018 3:16:23 AM

9/10/2018 3:16:23 AM

40223

40223

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

itert	1 10 111	e Qe Summary report and sample login enceking	t IOI II
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	
	D	Sample Diluted Due to Matrix	
	Н	Holding times for preparation or analysis exceeded	
	ND	Not Detected at the Reporting Limit	
	POL	Practical Quanitative Limit	F

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Lab Order 1809377

Date Reported: 9/27/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering		Cl	ient S	ample II	): SV	V Base	
Project: CBU Battery South Dig		(	Collec	tion Date	e: 9/6	5/2018 1:48:00 PM	
Lab ID: 1809377-003	Matrix: SOIL		Rece	ived Date	e: 9/7	7/2018 6:30:00 AM	
Analyses	Result	PQL	Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	SRM
Chloride	190	30		mg/Kg	20	9/22/2018 8:47:38 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	61	10		mg/Kg	1	9/13/2018 9:53:06 AM	40268
Motor Oil Range Organics (MRO)	92	50		mg/Kg	1	9/13/2018 9:53:06 AM	40268
Surr: DNOP	92.6	50.6-138		%Rec	1	9/13/2018 9:53:06 AM	40268
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Surr: BFB	74.6	15-316		%Rec	1	9/10/2018 3:39:43 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Toluene	ND	0.048		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Xylenes, Total	ND	0.097		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Surr: 4-Bromofluorobenzene	68.5	80-120	S	%Rec	1	9/10/2018 3:39:43 AM	40223

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
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Lab Order 1809377

Date Reported: 9/27/2018

9/12/2018 8:42:12 PM

9/12/2018 8:42:12 PM

9/12/2018 8:42:12 PM

9/10/2018 4:03:09 AM

40268

40268

40268

40223

40223

40223

40223

40223

40223

40223

Analyst: TOM

Analyst: NSB

Analyst: NSB

### Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

CLIENT:	Blagg Engineering		Client S	Sample II	D: SE	Base	
Project:	CBU Battery South Dig		Colle	tion Dat	<b>e:</b> 9/6	5/2018 1:57:00 PM	
Lab ID:	1809377-004	Matrix: SOIL	Rece	ived Dat	e: 9/7	7/2018 6:30:00 AM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch
						Analyst	
	THOD 300.0: ANIONS					Allalyst	

9.8

49

4.6

15-316

0.023

0.046

0.046

0.093

80-120

S

50.6-138

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

ND

ND

89.2

ND

75.4

ND

ND

ND

ND

69.5

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

		\$ 1 1 5	00	
<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the as

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank B
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytica	l Report
Lab Order	1809377

#### Date Reported: 9/27/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: CBU Battery South Dig

Lab ID:

1809377-005

Client Sample ID: South Wall - WestCollection Date: 9/6/2018 2:03:00 PMMatrix: SOILReceived Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	590	30	mg/Kg	20	9/22/2018 10:26:56 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	том
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/12/2018 9:06:47 PM	40268
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2018 9:06:47 PM	40268
Surr: DNOP	75.3	50.6-138	%Rec	1	9/12/2018 9:06:47 PM	40268
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/10/2018 11:58:08 PM	40223
Surr: BFB	91.3	15-316	%Rec	1	9/10/2018 11:58:08 PM	40223
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/10/2018 11:58:08 PM	40223
Toluene	ND	0.047	mg/Kg	1	9/10/2018 11:58:08 PM	40223
Ethylbenzene	ND	0.047	mg/Kg	1	9/10/2018 11:58:08 PM	40223
Xylenes, Total	ND	0.094	mg/Kg	1	9/10/2018 11:58:08 PM	40223
Surr: 4-Bromofluorobenzene	98.2	80-120	%Rec	1	9/10/2018 11:58:08 PM	40223

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

Qualifiers: \* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Blagg Engineering	Client Sample ID: West Wall - North							
Project: CBU Battery South Dig	Collection Date: 9/6/2018 2:07:00 PM							
Lab ID: 1809377-006	Matrix: SOIL	Received Date: 9/7/2018 6:30:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	130	30	mg/Kg	20	9/22/2018 10:39:21 AM	40515		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ТОМ		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/12/2018 9:31:08 PM	40268		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2018 9:31:08 PM	40268		
Surr: DNOP	81.4	50.6-138	%Rec	1	9/12/2018 9:31:08 PM	40268		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2018 12:21:19 AM	40223		
Surr: BFB	92.3	15-316	%Rec	1	9/11/2018 12:21:19 AM	40223		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.023	mg/Kg	1	9/11/2018 12:21:19 AM	40223		
Toluene	ND	0.047	mg/Kg	1	9/11/2018 12:21:19 AM	40223		
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2018 12:21:19 AM	40223		
Xylenes, Total	ND	0.093	mg/Kg	1	9/11/2018 12:21:19 AM	40223		
Surr: 4-Bromofluorobenzene	97.7	80-120	%Rec	1	9/11/2018 12:21:19 AM	40223		

# Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1809377 Date Reported: 9/27/2018

CLIENT: Blagg Engineering		CI	ient Sample II	): No	orth Wall - East			
Project: CBU Battery South Dig	Collection Date: 9/6/2018 2:15:00 PM							
Lab ID: 1809377-007	Matrix: SOIL Received Date: 9/7/2018 6:30:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	300	30	mg/Kg	20	9/22/2018 10:51:45 AM	40515		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	том		
Diesel Range Organics (DRO)	11	9.8	mg/Kg	1	9/12/2018 9:55:39 PM	40268		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/12/2018 9:55:39 PM	40268		
Surr: DNOP	91.5	50.6-138	%Rec	1	9/12/2018 9:55:39 PM	40268		
EPA METHOD 8015D: GASOLINE RANG	3E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2018 12:44:30 AM	40223		
Surr: BFB	88.4	15-316	%Rec	1	9/11/2018 12:44:30 AM	40223		
EPA METHOD 8021B: VOLATILES					Analyst:	NSB		
Benzene	ND	0.024	mg/Kg	1	9/11/2018 12:44:30 AM	40223		
Toluene	ND	0.047	mg/Kg	1	9/11/2018 12:44:30 AM	40223		
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2018 12:44:30 AM	40223		
Xylenes, Total	ND	0.094	mg/Kg	1	9/11/2018 12:44:30 AM	40223		
Surr: 4-Bromofluorobenzene	95.2	80-120	%Rec	1	9/11/2018 12:44:30 AM	40223		

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

Qualifiers: \* Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank В D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 7 of 13 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit Р Sample pH Not In Range PQL Practical Quanitative Limit Reporting Detection Limit RL S % Recovery outside of range due to dilution or matrix W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1809377 Date Reported: 9/27/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: CBU Battery South Dig	Client Sample ID: East Wall - North Collection Date: 9/6/2018 2:19:00 PM						
Lab ID: 1809377-008	Matrix:         SOIL         Received Date: 9/7/2018 6:30:00 AM						
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	240	30		mg/Kg	20	9/22/2018 11:04:10 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	Irm
Diesel Range Organics (DRO)	100	9.8		mg/Kg	1	9/13/2018 10:17:35 AM	40268
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	9/13/2018 10:17:35 AM	40268
Surr: DNOP	99.4	50.6-138		%Rec	1	9/13/2018 10:17:35 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Surr: BFB	89.7	15-316		%Rec	1	9/11/2018 1:07:43 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Toluene	ND	0.048		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Xylenes, Total	ND	0.097		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	9/11/2018 1:07:43 AM	40223

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 1809377

Date Reported: 9/27/2018

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	0	be the contract of the second		sumpre container temperatare is out of mint as speemed

Analytical	Report
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#### Lab Order 1809377

Date Reported: 9/27/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering		Client Sample ID: East Wall - South Collection Date: 9/6/2018 2:23:00 PM						
<b>Project:</b> CBU Battery South Dig		(						
Lab ID: 1809377-009	Matrix: SOIL		Received Date	e: 9/7	7/2018 6:30:00 AM			
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	MRA		
Chloride	650	30	mg/Kg	20	9/22/2018 11:16:35 AM	40515		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	Irm		
Diesel Range Organics (DRO)	120	9.7	mg/Kg	1	9/13/2018 11:06:26 AM	40268		
Motor Oil Range Organics (MRO)	210	48	mg/Kg	1	9/13/2018 11:06:26 AM	40268		
Surr: DNOP	103	50.6-138	%Rec	1	9/13/2018 11:06:26 AM	40268		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2018 1:30:57 AM	40223		
Surr: BFB	90.7	15-316	%Rec	1	9/11/2018 1:30:57 AM	40223		
EPA METHOD 8021B: VOLATILES					Analyst:	NSB		
Benzene	ND	0.024	mg/Kg	1	9/11/2018 1:30:57 AM	40223		
Toluene	ND	0.047	mg/Kg	1	9/11/2018 1:30:57 AM	40223		
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2018 1:30:57 AM	40223		
Xylenes, Total	ND	0.094	mg/Kg	1	9/11/2018 1:30:57 AM	40223		
Surr: 4-Bromofluorobenzene	95.3	80-120	%Rec	1	9/11/2018 1:30:57 AM	40223		

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 13
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Client:Blagg EngineeringProject:CBU Battery South Dig

Sample ID         MB-40513         SampType:         MBLK         TestCode:         EPA Method 300.0: Anions	
Client ID: <b>PBS</b> Batch ID: <b>40513</b> RunNo: <b>54344</b>	
Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo:         1798820         Units:         mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD I	RPDLimit Qual
Chloride ND 1.5	
Sample ID LCS-40513 SampType: LCS TestCode: EPA Method 300.0: Anions	
Client ID: LCSS Batch ID: 40513 RunNo: 54344	
Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo:         1798821         Units:         mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD I	RPDLimit Qual
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         M           Chloride         14         1.5         15.00         0         93.7         90         110	RPDLimit Qual
	RPDLimit Qual
Chloride 14 1.5 15.00 0 93.7 90 110	RPDLimit Qual
Chloride         14         1.5         15.00         0         93.7         90         110           Sample ID         MB-40515         SampType: mblk         TestCode: EPA Method 300.0: Anions	RPDLimit Qual
Chloride         14         1.5         15.00         0         93.7         90         110           Sample ID         MB-40515         SampType: mblk         TestCode: EPA Method 300.0: Anions           Client ID:         PBS         Batch ID: 40515         RunNo: 54353           Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo: 1799371         Units: mg/Kg	RPDLimit Qual
Chloride         14         1.5         15.00         0         93.7         90         110           Sample ID         MB-40515         SampType:         mblk         TestCode:         EPA Method 300.0:         Anions           Client ID:         PBS         Batch ID:         40515         RunNo:         54353           Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo:         1799371         Units:         mg/Kg	
Chloride         14         1.5         15.00         0         93.7         90         110           Sample ID         MB-40515         SampType:         mblk         TestCode:         EPA Method 300.0:         Anions           Client ID:         PBS         Batch ID:         40515         RunNo:         54353           Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo:         1799371         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         H	
Chloride         14         1.5         15.00         0         93.7         90         110           Sample ID         MB-40515         SampType:         mblk         TestCode:         EPA Method 300.0:         Anions           Client ID:         PBS         Batch ID:         40515         RunNo:         54353           Prep Date:         9/21/2018         Analysis Date:         9/22/2018         SeqNo:         1799371         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         I           Chloride         ND         1.5         1.5         Item         It	
Chloride141.515.00093.790110Sample IDMB-40515SampType: mblkTestCode: EPA Method 300.0: AnionsClient ID:PBSBatch ID: 40515RunNo: 54353Prep Date:9/21/2018Analysis Date:9/22/2018SeqNo: 1799371AnalyteResultPQLSPK valueSPK Ref Val%RECChlorideND1.5SampType:IcsSample IDLCS-40515SampType:IcsTestCode: EPA Method 300.0: Anions	
Chloride141.515.00093.790110Sample IDMB-40515SampType: mblkTestCode: EPA Method 300.0: AnionsClient ID:PBSBatch ID:40515RunNo:54353Prep Date:9/21/2018Analysis Date:9/22/2018SeqNo:1799371Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDFChlorideND1.5SampType:IcsTestCode:EPA Method 300.0: AnionsSample IDLCS-40515SampType:IcsTestCode:EPA Method 300.0: AnionsClient ID:LCSSBatch ID:40515RunNo:54353Prep Date:9/21/2018Analysis Date:9/22/2018SeqNo:1799372Units:mg/Kg	

#### Qualifiers:

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

Р

W Sample container temperature is out of limit as specified

Page 10 of 13

WO#: **1809377** 27-Sep-18

Client: Blagg Engineering

Project: CBU Battery South Dig

Sample ID LCS-40268	SampType: LCS TestCode: EPA Method 8			8015M/D: Die	esel Range	e Organics				
Client ID: LCSS	Batch	1D: 40	268	R	RunNo: 5	4034				
Prep Date: 9/11/2018	Analysis D	ate: 9/	12/2018	S	SeqNo: 1	788364	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130			
Surr: DNOP	3.9		5.000		78.4	50.6	138			
Sample ID MB-40268	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID MB-40268 Client ID: PBS		ype: ME			tCode: El		8015M/D: Die	esel Range	e Organics	
		n ID: 40		R		4034	8015M/D: Die Units: mg/K	Ū	e Organics	
Client ID: PBS	Batch	n ID: 40	268 12/2018	R	anNo: 5	4034		Ū	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 9/11/2018 Analyte	Batch Analysis D	n ID: 40 pate: 9/	268 12/2018	R	RunNo: <b>5</b> GeqNo: <b>1</b>	4034 788365	Units: <b>mg/K</b>	g	Ū	Qual
Client ID: PBS Prep Date: 9/11/2018	Batch Analysis D Result	n ID: <b>40</b> Pate: <b>9</b> /	268 12/2018	R	RunNo: <b>5</b> GeqNo: <b>1</b>	4034 788365	Units: <b>mg/K</b>	g	Ū	Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

1809377 27-Sep-18

WO#:

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e			

Page 11 of 13

Client: Blagg Engineering **Project:** CBU Battery South Dig

Sample ID MB-40223	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch	n ID: 402	223	RunNo: <b>54017</b>						
Prep Date: 9/7/2018	Analysis Date: 9/9/2018			SeqNo: 1784288			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 790	5.0	1000		78.6	15	316			
Sample ID LCS-40223	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Sample ID LCS-40223 Client ID: LCSS		ype: LC			tCode: El RunNo: 5		8015D: Gasc	line Rang	e	
		n ID: 40		R		4017	8015D: Gasc Units: mg/K		e	
Client ID: LCSS	Batch	n ID: 40	223 9/2018	R	RunNo: 5	4017			e RPDLimit	Qual
Client ID: LCSS Prep Date: 9/7/2018	Batch Analysis D	n ID: 402 Pate: 9/	223 9/2018	F S	RunNo: <b>5</b> GeqNo: <b>1</b>	4017 784289	Units: mg/K	g		Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- Page 12 of 13

Sample pH Not In Range RL Reporting Detection Limit

Р

Sample container temperature is out of limit as specified W

WO#: 1809377 27-Sep-18

Client:Blagg EngineeringProject:CBU Battery South Dig

Sample ID MB-40223	SampT	ype: ME	BLK	Tes	Code: El	iles				
Client ID: PBS	Batch	n ID: 40	223	R	RunNo: <b>54017</b>					
Prep Date: 9/7/2018	Analysis D	is Date: 9/9/2018 SeqNo: 17843				784328	8 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: 4-Bromofluorobenzene	0.73		1.000		73.0	80	120			S
Sample ID LCS-40223	SampT	ype: LC	S	Tes	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 40	223	F	RunNo: 54017					
Prep Date: 9/7/2018	Analysis D	)ate: 9/	9/2018	S	eqNo: 1	784329	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	77.3	128			
Toluene	0.91	0.050	1.000	0	91.1	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.4	81.6	129			

Qualifiers:

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

Р

W Sample container temperature is out of limit as specified

Page 13 of 13

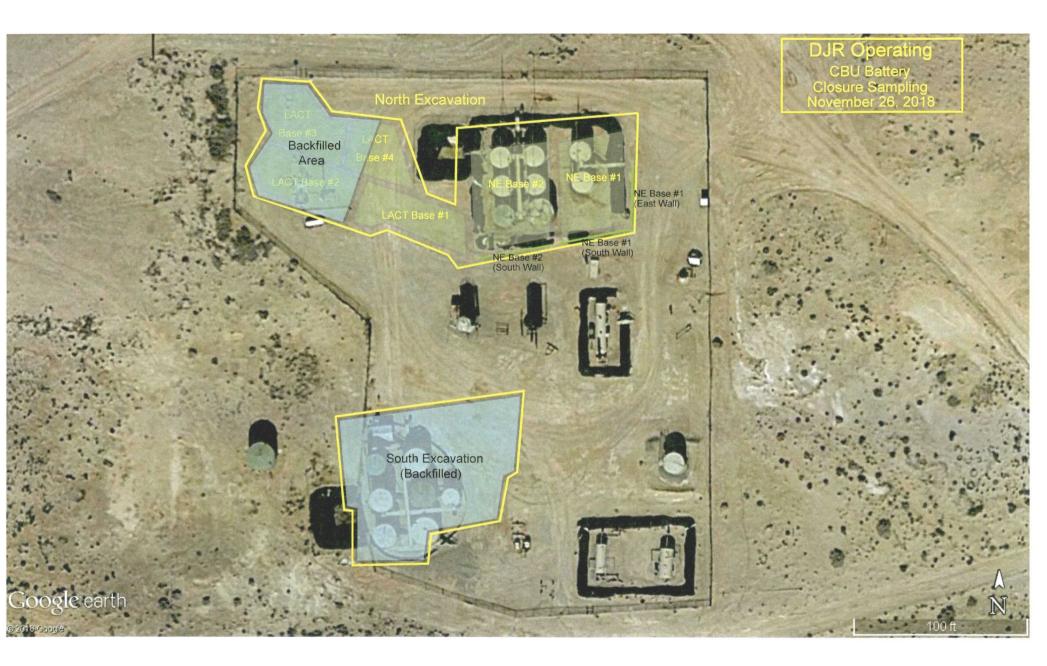
WO#: **1809377** 27-Sep-18

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins N querque, NM 8710	<sup>E</sup> 19 <b>San</b>	nple Log-In Ch	neck List
Client Name: DJR OPERATING	Work Order Number:	1809377		RcptNo:	1
Received By: Anne Thome 9/7	7/2018 6:30:00 AM		Anne H- Anne H-	~	
	/2018 9:32:52 AM		ann H-	~	
Reviewed By: 30 09/ LB: ENH9/7/18 Chain of Custody	07/18				
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 pre	served?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received broken?		Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified on Chain of Custo	ody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	TV T	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with this of	order?	Yes 🗌	No	NA 🖌	
Person Notified:	Date	Dest De service de la constance	allen standerstanderstander		
By Whom:	Via:	eMail 🗌 Pho	ne 🗌 Fax	In Person	
Regarding:					
Client Instructions:				MANANDO KTOTI-M. DIGLICILO AGNI LINUTO DI CINICIDA DA DA	
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp C Condition Seal In 2 1.2 Good Yes	tact Seal No Se	sal Date Si	gned By		

C	hain	of-Cu	stody Record	Turn-Around	Time:			2					E		/TC	20	DIR		NT		
Client:	DJR	OPE	ERATING	Standard	C Rush	1		-	F.										ATC		
	BLAH	, ENG	Neering	Project Name	9:											tal.c					
Mailing	Address	:		CBUI	BATTERY -	South DIG		49	01 H	awki								100			
	1.1.2.5			Project #:						5-34							-410				
Phone	#: 50	5-32	0-1183							0.04		Contraction of the	No. of Concession, name	1000		ues				1	Sec.
email o				Project Mana	iger:			(ylı	() ()					04)							
QA/QC	Package:			AME	ARCHULE	TA	3021	IS OF	/ MF			ŝ	4,4	4,SC	PCB's						
Stan	dard	e e	□ Level 4 (Full Validation)				<b>MB's</b> (8021)	(Ga	/ DRO / MRO)			SIMS)		PO							
Accred		C Otha	-		JEFF BI			TPH		<del>,</del>	<del>,</del>	8270		NO	808						Î
		□ Othe	· · · ·		Yes 1	Coders /12		, + ш	GRC	418	504	or 8	sl	203	es /		(A)				or
	2	Bantaire		Container	Preservative		8444 +	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHUCON			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Туре	HEAL NO. 1809377	BTEX	BTEX	TPH 8	) HdT	EDB (	PAH's	RCRA	Anions	8081 F	8260B	8270 (	CM			Air Bu
5/2018	1324	SOIL	NE BASE	402~1	COOL	105	X		X									X			
(	1333	1	NW BASIE			202	1		)												
	1348		SW BASE			703												T			
	1357		SE BASE			-204												T			
	1403		South Wall - West			005			Π							1		11			
	1407		West Will - NORTH			206							-								
1	1415		NORTH WELL - EAST			-207								3.8							+
	14A		EAST Wall - NORTH			-008			1									T			
1	1423		EAST Wall - South			-009	1		1									11			
		MQI	7/18																		
Date:	Time:	Relinquishe	M Blogg	Received by:	Jaco	Date Time 9/6/18 /630	Rer	nark	S: 1	Siu	J	)II	~			1					
Date: 9/6/19	Time:			Received by:	mh	Date Time 09107/8 - 0130															

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.

# APPENDIX B NOV. 26, 2018 SAMPLE EVENT



# DJR Operating CBU Battery NE/4 NW/4 Sec 5 – T25N – R12W San Juan County, New Mexico Excavation Closure Laboratory Analytical Results

		S	September 6, 2018			
Sample ID (5-pt Comps)	Sample Depth (Feet)	FieldTPHOVM(GRO+DRO+MRO)(ppm)(mg/Kg)		Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
NE Base #1 (East)	8.5'	3.2	ND + 96 + 94 = 190	0.01	ND	ND
NE Base #2 (West)	9'	182	ND + 290 + 180 = 470	0.05	ND	ND
LACT Base #1	12'	18.4	ND + 85 + 53 = 138	ND	ND	ND
LACT Base #2	12'	7.2	ND + 46 + ND = 46	ND	ND	ND
LACT Base #3	12'	9.1	ND + 34 + ND = 34	ND	ND	ND
LACT Base #4	12'	4.1	ND + 7 + ND = 7	ND	ND	ND
LACT Wall #1	2'-9'	3.0	ND + 2 + ND = 2	ND	ND	43
LACT Wall #2	3' - 10'	2.8	ND + 34 + 63 = 97	ND	ND	68
LACT Wall #3	2'-9'	2.0	ND + 60 + 98 = 158	ND	ND	ND

# North Excavation

North Excavation November 26, 2018

			oremoer 20, 2010			
Sample ID	Sample Depth	Field OVM	TPH (GRO+DRO+MRO)	Total BTEX	Benzene	Chloride
(5-pt Comps)	(Feet)	(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
LACT Base #1	12'-14'	0.5	ND + ND + ND = ND	ND	ND	24.8
NE Base #2(East)	12'-25'	0.6	ND + ND + ND = ND	ND	ND	ND
NE Base #1 (West)	12'-25'	0.7	ND + ND + ND = ND	ND	ND	ND
East Wall of NE Base #1	12'-22'	0.9	ND + ND + ND = ND	ND	ND	ND
South Wall of NE Base #1	12'-22'	1.2	ND + 25.2 + ND = 25.2	ND	ND	37.5
South Wall of NE Base #2	12'-22'	1.2	ND + ND + ND = ND	ND	ND	ND

LACT Base #1 Composite Sample Points Nov 26, 2018

NE Base #1 Sample Points

NE Base #2 Sample Points

LACT Base #1 (Easternmost Sample Point) East Wall of NE Base #1 Sample Points South Wall of NE Base #1 Sample Points South Wall of NE Base #2 Sample Points



### **Report Summary**

Client: DJR Operating, LLC Chain Of Custody Number: Samples Received: 11/27/2018 8:10:00AM Job Number: 17035-0028 Work Order: P811074 Project Name/Location: CBU Battery - North Dig

Report Reviewed By:

Walter Hinden

Date: 12/3/18

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 12/3/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted 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, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879 envirotech-inc.com boratory@envirotech-inc.com



DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Lact Base #1	P811074-01A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
NE Base #2	P811074-02A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
NE Base #1	P811074-03A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
East Wall of NE Base #1	P811074-04A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
South Wall of NE Base #1	P811074-05A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
South Wall of NE Base #2	P811074-06A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.

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DJR Operating, LLC	Project	Name:	CBU	Battery - N						
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Manager:	Amy	Archuleta		12/03/18 14:53				
		La	et Base #	ŧ1						
			74-01 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-P1D		102 %	50	-150	1848010	11 27 18	12 01 18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/27/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/27/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50	-150	1848010	11/27/18	12/01/18	EPA 8015D		
Surrogate: n-Nonane		88.7 %	50	-200	1848009	11/27/18	11/27/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	24.8	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A		

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DJR Operating, LLC	Project	Name:	CBU	Battery - No	orth Dig				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Amy	Archuleta				12/03/18 14:	53
		NI	E Base #2	2					
		P8110	74-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8021B	
Nonhalogenated Organics by 8015	•								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	50	-150	1848010	11/27/18	12.01.18	EPA 8015D	
Surrogate: n-Nonane		91.3 %	50	-200	1848009	11/27/18	11-28-18	EPA 8015D	
Anions by 300.0/9056A								ž	
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project	Project Name: CBU Battery - North Dig								
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Project Manager: Amy Archuleta						12/03/18 14:53		
		NI	E Base #	l						
			74-03 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8015D		
Surrogate: n-Nonane		92.1 %	50	-200	1848009	11/27/18	11/28/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A		

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DJR Operating, LLC	Project	Name:	CBU	Battery - N	orth Dig					
1 Rd 3263	Project	Number:	1703	5-0028				Reported:		
Aztec NM, 87410	Project	Manager:	Amy	Archuleta				12/03/18 14:53		
		East Wal	lofNE	Base #1						
			74-04 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8015D		
Surrogate: n-Nonane		89.9 %	50	-200	1848009	11/27/18	11/28/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A		

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DJR Operating, LLC	Project	CBU	Battery - N	orth Dig					
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Amy	Archuleta				12/03/18 14:	53
		South Wa	ll of NE	Base #1					
-		P8110	74-05 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1848010	11/27/18	12/01/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	25.2	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50	-150	1848010	11/27/18	12.01.18	EPA 8015D	
Surrogate: n-Nonane		93.7 %	50	-200	1848009	11/27/18	11/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	37.5	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project	Name:	CBU	Battery - N	orth Dig				
1 Rd 3263	Project	Number:	1703	5-0028				Reported:	
Aztec NM, 87410	Project	Manager:	Amy	Archuleta				12/03/18 14:	53
		South Wa	ll of NE	Base #2					
		P8110	74-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1848010	11 27 18	12 01 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50	-150	1848010	11/27/18	12/01/18	EPA 8015D	
Surrogate: n-Nonane		99.5 %	50-	-200	1848009	11 27 18	11 28 18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/29/18	EPA 300.0/9056A	

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ſ	DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
	1 Rd 3263	Project Number:	17035-0028	Reported:
	Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848010 - Purge and Trap EPA 5030A										
Blank (1848010-BLK1)				Prepared:	1/27/18 1 A	analyzed: 1	1/28/18 1			
enzene	ND	100	ug/kg							
oluene	ND	100	"							
thylbenzene	ND	100								
,m-Xylene	ND	200	"							
-Xylene	ND	100								
otal Xylenes	ND	100								
otal BTEX	ND	100								
urrogate: 4-Bromochlorobenzene-PID	8030		"	8000		100	50-150			
.CS (1848010-BS1)				Prepared:	1/27/18 1 A	analyzed: 1	1/28/18 1			
enzene	5130	100	ug/kg	5000		103	70-130			
oluene	5150	100		5000		103	70-130			
thylbenzene	5200	100		5000		104	70-130			
,m-Xylene	10600	200	н.	10000		106	70-130			
-Xylene	5130	100		5000		103	70-130			
Total Xylenes	15800	100		15000		105	70-130			
urrogate: 4-Bromochlorobenzene-P1D	8080		"	8000		101	50-150			
Aatrix Spike (1848010-MS1)	Sou	rce: P811072-	01	Prepared:	1/27/18 1 A	analyzed: 1	1/28/18 2			
Benzene	5050	100	ug/kg	5000	ND	101	54.3-133			
oluene	5080	100		5000	ND	102	61.4-130			
thylbenzene	5130	100		5000	ND	103	61.4-133			
,m-Xylene	10500	200		10000	ND	105	63.3-131			
-Xylene	5070	100		5000	ND	101	63.3-131			
Total Xylenes	15600	100		15000	ND	104	63.3-131			
urrogate: 4-Bromochlorobenzene-PID	8140		"	8000		102	50-150			
Aatrix Spike Dup (1848010-MSD1)	Sou	irce: P811072-	01	Prepared: 1	1/27/18 1 A	nalyzed: 1	1/28/18 2			
Benzene	5260	100	ug/kg	5000	ND	105	54.3-133	4.12	20	
oluene	5290	100		5000	ND	106	61.4-130	4.00	20	
thylbenzene	5350	100		5000	ND	107	61.4-133	4.15	20	
,m-Xylene	10900	200		10000	ND	109	63.3-131	4.14	20	
-Xylene	5280	100	"	5000	ND	106	63.3-131	3.99	20	
otal Xylenes	16200	100		15000	ND	108	63.3-131	4.09	20	
urrogate: 4-Bromochlorobenzene-PID	8160		"	8000		102	50-150			

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DJR Operating, LLC	Proje	ct Name:	С	BU Battery -	North Dig						
1 Rd 3263	Proje	ct Number:	11	7035-0028				Reported:			
Aztec NM, 87410	Proje	Project Manager:		Amy Archuleta					12/03/18 14:53		
	Nonhaloger	nated Org	anics by	8015 - Qu	ality Co	ntrol					
	Env	virotech A	Analyti	cal Labor	atory						
		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 1848009 - DRO Extraction EPA 35	570										
Blank (1848009-BLK1)				Prepared &	Analyzed:	11/27/18 1					
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg								
Dil Range Organics (C28-C40+)	ND	50.0									
Surrogate: n-Nonane	46.0		"	50.0		92.0	50-200				
LCS (1848009-BS1)				Prepared &	Analyzed:	11/27/18 1					
Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500		95.5	38-132				
Surrogate: n-Nonane	45.0		"	50.0		89.9	50-200				
Matrix Spike (1848009-MS1)	Sourc	e: P811072-	01	Prepared &	Analyzed:	11/27/18 1					
Diesel Range Organics (C10-C28)	619	25.0	mg/kg	500	104	103	38-132				
Surrogate: n-Nonane	45.8		"	50.0		91.5	50-200				
Matrix Spike Dup (1848009-MSD1)	Sourc	e: P811072-	01	Prepared &	Analyzed:	11/27/18 1					
Diesel Range Organics (C10-C28)	602	25.0	mg/kg	500	104	99.7	38-132	2.81	20		
Surrogate: n-Nonane	44.8		"	50.0		89.7	50-200				

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Γ	DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
	1 Rd 3263	Project Number:	17035-0028	Reported:
	Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

#### Nonhalogenated Organics by 8015 - Quality Control

### **Envirotech Analytical Laboratory**

			•		·					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848010 - Purge and Trap EPA 503(	)A									
Blank (1848010-BLK1)				Prepared:	11/27/18 1 A	nalyzed: 1	1/28/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-F1D	8.22		n	8.00		103	50-150			
LCS (1848010-BS2)				Prepared:	11/27/18 1 A	nalyzed: 1	1/28/18 2			
Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0		93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		"	8.00		106	50-150			
Matrix Spike (1848010-MS2)	Sour	ce: P811072-	01	Prepared:	11/27/18 1 A	nalyzed: 1	1/28/18 2			
Gasoline Range Organics (C6-C10)	48.4	20.0	mg/kg	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-F1D	8.35		"	8.00		104	50-150			
Matrix Spike Dup (1848010-MSD2)	Sour	ce: P811072-	01	Prepared:	11/27/18 1 A	nalyzed: 1	1/28/18 2			
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	93.9	70-130	2.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			

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Anions by 300.0/9056A - Quality Control						
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53			
1 Rd 3263	Project Number:	17035-0028	Reported:			
DJR Operating, LLC	Project Name:	CBU Battery - North Dig				

### **Envirotech Analytical Laboratory**

Andrea	Describ	Reporting	T la ita	Spike	Source	0/DEC	%REC Limits	RPD	RPD Limit	Natas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1848012 - Anion Extraction EPA 3	00.0/9056A									
Blank (1848012-BLK1)				Prepared &	Analyzed:	11/28/18 1				
Chloride	ND	20.0	mg/kg							
LCS (1848012-BS1)				Prepared &	Analyzed:	11/28/18 1				
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1848012-MS1)	Sour	ce: P811072-	01	Prepared &	Analyzed:	11/28/18 1				
Chloride	270	20.0	mg/kg	250	ND	108	80-120			
Matrix Spike Dup (1848012-MSD1)	Sour	ce: P811072-	01	Prepared: 1	1/28/18 1 A	Analyzed: 1	1/29/18 1			
Chloride	272	20.0	mg/kg	250	ND	109	80-120	0.948	20	

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Page 12 of 14



DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	Reported:
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

#### **Notes and Definitions**

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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Project I	nforma	tion			Chain of Cu	stody											Pa	age <u>l</u>	of	
Client: DJR Report Attention							Lab Use Only							氣	TAT	T EPA Prog			m	
Project: CBU BATTERY - NORTH DIG Report due by: STANDARD						TT	Lab WO#									O RCRA		CWA	SDWA	
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Email:	archi	leta C	DJRLL	C. COM CEMAIL:	je ffcblaggi		kO b	q O	802	826	5010	300	.1							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					Rem	arks	
1535	1/26/201	BSUL	1	LACT BASE #1			X	×	×			X								
1543			1	NE BASE #2		2	1		1			1								
1551			1	NE BASE #1		3														
1559			1	EAST WALL OF		4														
1607			1	SOUTH WALL OF	NE BASE #1	5														
1615			1	SOUTH WALL OF	NE BASE #2	6														
Additio	nal Inst	ructions:	BILL	DJR-LLC	ris Ice in Coole	(														
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