



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

October 6, 2022

Re: Argo Battery
Case nAPP2219531141

On 7/7/2022 a release occurred due external corrosion on a steel flowline. The release (GPS: 32.468338, -103.155122) is located north of Eunice, New Mexico in unit letter C section 22 township 21S range 37E. Groundwater was determined using a monitor well drilled on 7/19/2022 with a depth to water of 57 feet.

The release area was excavated to depths of 2 and 3 feet. Final 5-point bottom and wall composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for chloride, TPH, and BTEX. All excavated soil (360 yards) was disposed of at an OCD approved facility. The release area was backfilled with clean imported soil. A deal was made for the surface owner to reseed the disturbed area. Upon review of the data bottom sample point B11 was not taken to the lab for analysis. On 10/4/2022 a 5-point bottom composite sample was collected using a hand auger to the excavation depth of 3 feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Apache Corporation has remediated the release to table one standards and respectfully request this event be closed.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, and photos.

Submitted by.

Larry Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-215-2284

Incident ID	NAPP2219531141
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>57</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Oil Conservation Division

Incident ID	NAPP2219531141
District RP	
Facility ID	
Application ID	

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: Larry Baker Date: 10/6/2022
email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: Jocelyn Harimon Date: 10/06/2022

Incident ID	NAPP2219531141
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Larry Baker

Title: Environmental Tech Sr. Staff

Signature: Larry Baker

Date: 10/6/2022

email: larry.baker@apachecorp.com

Telephone: 432-215-2284

OCD Only

Received by: Jocelyn Harimon

Date: 10/06/2022

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

Closure Approved by: Jennifer Nobui

Date: 10/25/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

From: [Nobui, Jennifer, EMNRD](#)
To: [Baker, Larry](#)
Cc: [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: RE: [EXTERNAL] Final Sample Notification for Event nAPP2219531141
Date: Friday, July 29, 2022 9:54:56 AM

Larry

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Baker, Larry <Larry.Baker@apachecorp.com>
Sent: Thursday, July 28, 2022 12:31 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: [EXTERNAL] Final Sample Notification for Event nAPP2219531141

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Apache Corporation will be conducting final samples at the Argo Battery (nAPP2219531141) on Monday 8/1/2022 at 8:00 a.m. MST in accordance with 19.15.29. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF
direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION
303 Veterans Airpark Lane
Midland, TX 79705

[ApacheCorp.com](#) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)

Argo release
Argo/Argo A

Argo Ln

Argo Ln

32 27 51.8510 -103 09 04.9988
MW 1

Table 1
1RP-313
Monitoring Well Completion and Gauging Summary
Apache Corporaion, NEDU Drill Pits
Lea County, New Mexico

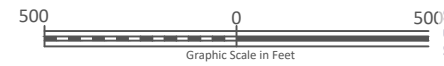
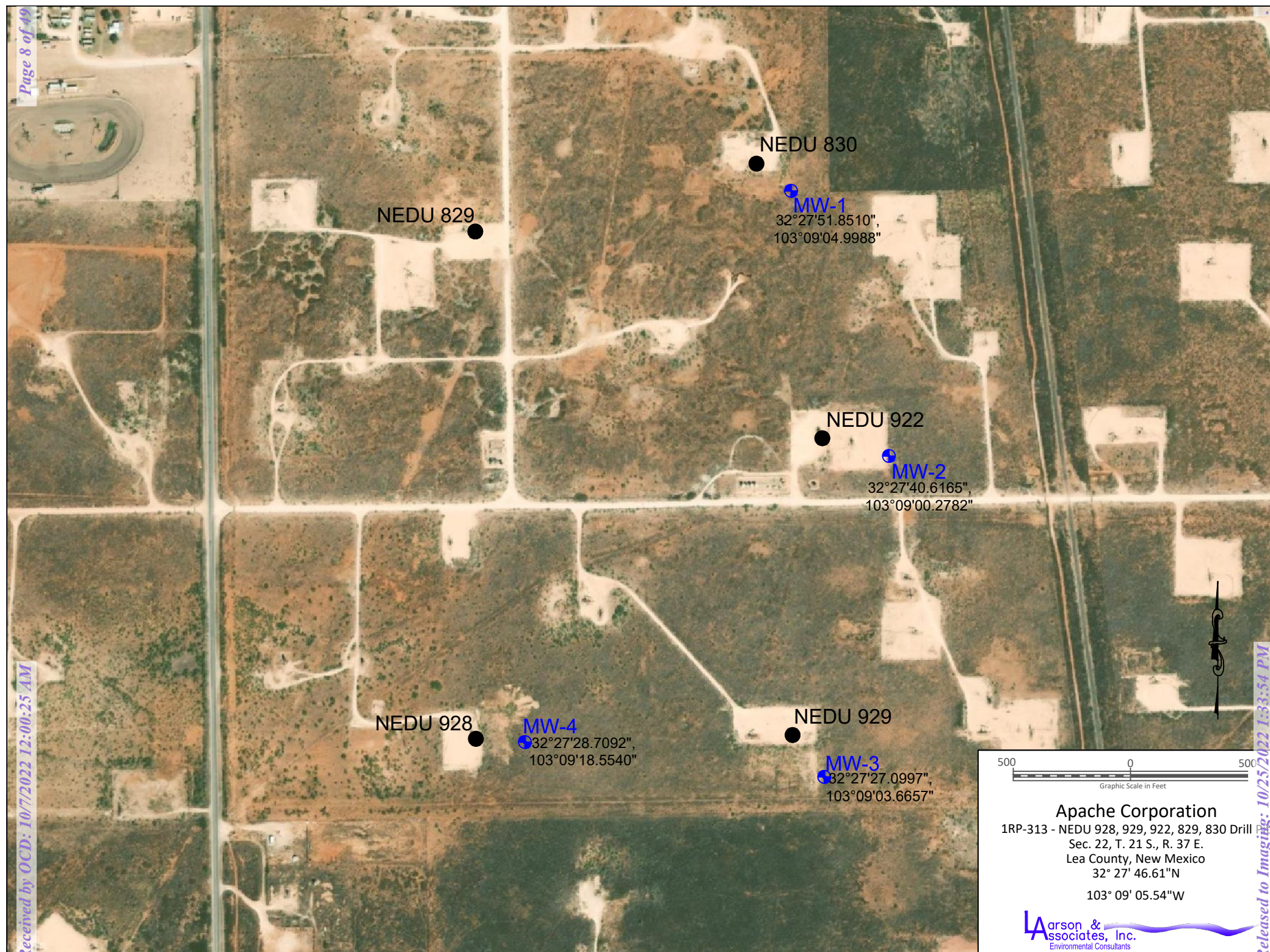
Well Information									Groundwater Data				
Well No.	Date Drilled	Well Depth (Feet TOC)	Drilled Depth (Feet BGS)	Well Diameter (Inches)	Surface Elevation (Feet AMSL)	Screen Interval (Feet BGS)	Casing Stickup (Feet)	TOC Elevation (Feet AMSL)	Date Gauged	Depth to Water (Feet TOC)	Depth to Water (Feet BGS)	Water Column Height (Feet)	Groundwater Elevation (Feet AMSL)
MW-1	07/19/2021	74.08	71.08	2	3417.34	70.85-50.85	3.00	3,417.34	07/29/2021	57.40	54.40	16.68	3,359.94
									11/08/2021	57.40	54.40	16.68	3,359.94
									03/02/2022	57.36	54.36	16.72	3,359.98
									05/24/2022	57.32	54.32	16.76	3,360.02
MW-2	07/19/2021	74.86	71.86	2	3408.43	71.68-51.68	3.00	3,411.66	07/29/2021	54.81	51.81	20.05	3,356.85
									11/08/2021	54.85	51.85	20.01	3,356.81
									03/02/2022	54.91	51.91	19.95	3,356.75
									05/24/2022	54.91	51.91	19.95	3,356.75
MW-3	07/20/2021	65.35	62.75	2	3406.01	65.15-45.15	2.60	3,409.32	07/29/2021	53.55	50.95	11.80	3,355.77
									11/08/2021	53.67	51.07	9.68	3,355.65
									03/02/2022	53.83	51.23	11.52	3,355.49
									05/24/2022	53.88	51.28	11.47	3,355.44
MW-4	07/20/2021	76.01	72.93	2	3412.51	75.81-55.81	3.08	3,415.02	07/30/2021	44.38	41.30	31.63	3,370.64
									11/08/2021	43.44	40.36	32.57	3,371.58
									03/02/2022	43.44	40.36	32.57	3,371.58
									05/24/2022	43.50	40.42	32.51	3,371.52

Notes: monitoring wells installed by Environ-Drill, Albuquerque, New Mexico with 2 inch schedule 40 PVC casing and screen

bgs: below ground surface

TOC: top of casing

AMSL: denotes elevation in feet above mean sea level



Apache Corporation
1RP-313 - NEDU 928, 929, 922, 829, 830 Drill
Sec. 22, T. 21 S., R. 37 E.
Lea County, New Mexico
32° 27' 46.61"N
103° 09' 05.54"W

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Aerial Map

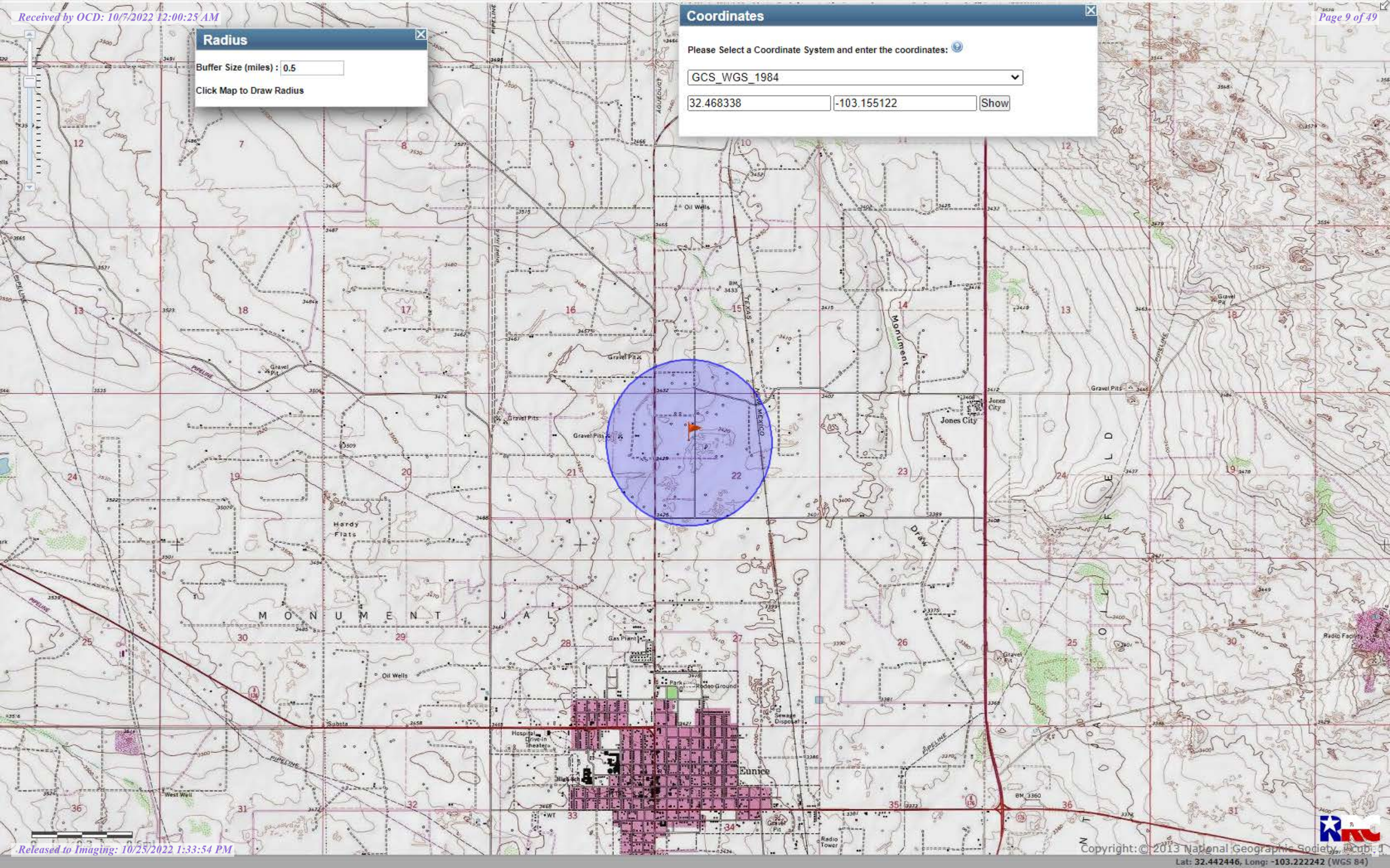
Radius

Buffer Size (miles) :

Click Map to Draw Radius

Coordinates

Please Select a Coordinate System and enter the coordinates: ?



Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
8/1/2022	B1	1.5'	608	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4683257, -103.1551000
8/15/2022	B1	2'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/1/2022	B2	2.5'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.5	44.3	32.4683316, -103.1550450
8/1/2022	B3	2'	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4683890, -103.1550366
8/1/2022	B4	2'	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.7	23.9	32.4684453, -103.1550212
8/1/2022	B5	2'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.9	26.4	32.4685112, -103.1550182
8/1/2022	B6	2.5'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4685678, -103.1550296
8/1/2022	B7	2'	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.8	80.7	32.4686512, -103.1550467
8/15/2022	B7	2.5'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/1/2022	B8	2'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.9	19.8	32.4687166, -103.1550554
8/1/2022	B9	2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	10.8	32.4686716, -103.1550822
8/1/2022	B10	2'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.6	130	32.4687361, -103.1550933
8/15/2022	B10	2.5	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/4/2022	B11	3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4687002, -103.1550685
8/2/2022	W1	0-1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4683274, -103.1551120
8/2/2022	W2	0-2'	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.3	<10.0	32.4684603, -103.1549880
8/2/2022	W3	0-2'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	89.4	92.9	32.4684374, -103.1550302
8/15/2022	W3	0-2'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.7	<10.0	

8/2/2022	W4	0-2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4685505, -103.1550473
8/15/2022	W5	2'-3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.7	12.8	32.4686824, -103.1550695



32.4685505 -103.1550473

- B10
- B9
- B8
- B11
- W5
- B7
- B6
- W4
- B5
- W2
- B4
- W3
- B3
- B1
- W1
- B2

50 ft



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 08, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: ARGO BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/01/22 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ARGO BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B3 @ 2' (H223398-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEX	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 81.3 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B4 @ 2' (H223398-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/04/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	47.7	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	23.9	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 43-149

Surrogate: 1-Chlorooctadecane 91.0 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B5 @ 2' (H223398-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	47.9	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	26.4	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 43-149

Surrogate: 1-Chlorooctadecane 94.2 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B6 @ 2'6" (H223398-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 43-149

Surrogate: 1-Chlorooctadecane 86.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B1 @ 1'6" (H223398-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 92.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ARGO BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B2 @ 2'6" (H223398-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	186	92.8	200	6.38	
DRO >C10-C28*	26.5	10.0	08/05/2022	ND	191	95.6	200	6.27	
EXT DRO >C28-C36	44.3	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 61.5 % 43-149

Surrogate: 1-Chlorooctadecane 71.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ARGO BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B7 @ 2' (H223398-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/04/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	186	92.8	200	6.38	
DRO >C10-C28*	43.8	10.0	08/05/2022	ND	191	95.6	200	6.27	
EXT DRO >C28-C36	80.7	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 65.7 % 43-149

Surrogate: 1-Chlorooctadecane 78.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	08/01/2022	Sampling Date:	08/01/2022
Reported:	08/08/2022	Sampling Type:	Soil
Project Name:	ARGO BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B8 @ 2' (H223398-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/04/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	186	92.8	200	6.38	
DRO >C10-C28*	22.9	10.0	08/05/2022	ND	191	95.6	200	6.27	
EXT DRO >C28-C36	19.8	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 68.0 % 43-149

Surrogate: 1-Chlorooctadecane 78.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B9 @ 2' (H223398-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	186	92.8	200	6.38	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	191	95.6	200	6.27	
EXT DRO >C28-C36	10.8	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 64.6 % 43-149

Surrogate: 1-Chlorooctadecane 70.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/01/2022
 Reported: 08/08/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B10 @ 2' (H223398-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44		
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	08/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	186	92.8	200	6.38	
DRO >C10-C28*	81.6	10.0	08/08/2022	ND	191	95.6	200	6.27	
EXT DRO >C28-C36	130	10.0	08/08/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Agreene						BILL TO						ANALYSIS REQUEST										
Project Manager: Bruce Baker						P.O. #:																
Address:						Company:																
City: Hobbs						State: NM						Attn:										
Phone #:						Fax #:						Address:										
Project #:						Project Owner:						City:										
Project Name:						State:						Zip:										
Project Location: Argo Battery						Phone #:																
Sample Name: See Description						Fax #:																
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :													
HZ23398	B3 @2'	C	1									8-1	9:37	X	X	X						
	B4 @2'	C	1									8-1	9:39	X	X	X						
	B5 @2'	C	1									8-1	9:41	X	X	X						
	B10 @2'6"	C	1									8-1	11:46	X	X	X						
	B1 @1'6"	C	1									8-1	12:14	X	X	X						
	B2 @2'6"	C	1									8-1	2:22	X	X	X						
	B7 @3'	C	1									8-1	3:12	X	X	X						
	B8 @2'	C	1									8-1	3:14	X	X	X						
	B9 @2'	C	1									8-1	3:16	X	X	X						
	B10 @2'	C	1									8-1	3:18	X	X	X						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:				Date: 8/1/02				Received By:				Date: 8/1/02			
Time: 10:45				Time:				Time:				Time:			
Refiniquished By:				Date:				Received By:				Date:			
Time:				Time:				Time:				Time:			

Delivered By: (Circle One)				Observed Temp. °C 5.7				SAMPLE CONDITION				CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Corrected Temp. °C 5.1				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>			
												Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			
												Thermometer ID #113 <input type="checkbox"/> Corrected Temp. °C			
												Correction Factor -0.5°C <input type="checkbox"/> TP. 8/1/02 <input type="checkbox"/> Corrected Temp. °C			

REMARKS: Bruce Baker, Center

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 05, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: ARGO BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/22 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/02/2022
 Reported: 08/05/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W1 BGS 0-1' (H223427-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.99	99.5	2.00	4.69	
Toluene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	3.50	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.10	105	2.00	4.25	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.44	107	6.00	4.50	
Total BTEX	<0.300	0.300	08/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	193	96.3	200	0.195	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	209	105	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/02/2022
 Reported: 08/05/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W2 BGS 0-2' (H223427-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.99	99.5	2.00	4.69	
Toluene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	3.50	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.10	105	2.00	4.25	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.44	107	6.00	4.50	
Total BTX	<0.300	0.300	08/05/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	193	96.3	200	0.195	
DRO >C10-C28*	10.3	10.0	08/05/2022	ND	209	105	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 77.6 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/02/2022
 Reported: 08/05/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W3 BGS 0-2' (H223427-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.99	99.5	2.00	4.69		
Toluene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	3.50		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.10	105	2.00	4.25		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.44	107	6.00	4.50		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	08/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	193	96.3	200	0.195	
DRO >C10-C28*	89.4	10.0	08/05/2022	ND	209	105	200	2.52	
EXT DRO >C28-C36	92.9	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 43-149

Surrogate: 1-Chlorooctadecane 106 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/02/2022
 Reported: 08/05/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/01/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W4 BGS 0-2' (H223427-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2022	ND	1.99	99.5	2.00	4.69		
Toluene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	3.50		
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.10	105	2.00	4.25		
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.44	107	6.00	4.50		
Total BTEx	<0.300	0.300	08/05/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/04/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	193	96.3	200	0.195	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	209	105	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 97.0 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 18, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: ARGO BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/15/22 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/15/2022
 Reported: 08/18/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 1 @ 2' (H223725-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	11.4	
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36	
Total BTX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 43-149

Surrogate: 1-Chlorooctadecane 98.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/15/2022
 Reported: 08/18/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 5 BGS 2'-3' (H223725-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	11.4		
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/17/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	16.7	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	12.8	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 94.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/15/2022
 Reported: 08/18/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 3 BGS 0-2' (H223725-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	11.4	
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36	
Total BTEx	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	15.7	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 94.0 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/15/2022
 Reported: 08/18/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 7 @ 2' 6" (H223725-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	11.4	
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 132 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 08/15/2022
 Reported: 08/18/2022
 Project Name: ARGO BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/15/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 10 @ 2' 6" (H223725-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2022	ND	2.00	100	2.00	11.4	
Toluene*	<0.050	0.050	08/17/2022	ND	2.06	103	2.00	8.04	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	2.02	101	2.00	6.61	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.31	105	6.00	8.36	
Total BTEx	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2022	ND	208	104	200	9.42	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	216	108	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to cc@cardinal.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 06, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: ARGO BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

APACHE CORP - HOBBS
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/06/2022	Sampling Type:	Soil
Project Name:	ARGO BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 @ 3' (H224632-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2022	ND	2.10	105	2.00	5.71	
Toluene*	<0.050	0.050	10/06/2022	ND	2.09	104	2.00	5.58	
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.05	102	2.00	6.33	
Total Xylenes*	<0.150	0.150	10/06/2022	ND	6.21	103	6.00	5.88	
Total BTX	<0.300	0.300	10/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/06/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	214	107	200	2.01	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	213	106	200	1.68	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce Baker Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: Argo Battery Sampler Name: Jose Quessada FOR LAB USE ONLY				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. A24632 Sample I.D. B1103				BILL TO			
Relinquished By: Jose Quessada Date: 10/4 Time: 1650 Received By: Jennifer Quessada Date: 10/4 Time:				ANALYSIS REQUEST			
Relinquished By: Jose Quessada Date: 10/4 Time: 1650 Received By: Jennifer Quessada Date: 10/4 Time:				REMARKS: E-Mail Results Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>			
Delivered By: (Circle One) Observed Temp. °C 4.4 Sampler - UPS - Bus - Other: Corrected Temp. °C 3.8 Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No CHECKED BY: (Initials) JQ				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:			
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FOR LAB USE ONLY				MATRIX			
FOR LAB USE ONLY				PRESERV.			
FOR LAB USE ONLY				SAMPLING			
FOR LAB USE ONLY				DATE 10/4 TIME 4:00			
FOR LAB USE ONLY				CI			
FOR LAB USE ONLY				BTEX			
FOR LAB USE ONLY				EXT TPH			









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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 149426

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 149426
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/25/2022