



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

July 1, 2024

Re: EAU C-37
Case nAPP2306042664

On 2/20/2023 a release occurred due internal corrosion on 2-inch steel flow line. The release (GPS: 32.802643, -104.148154) is located east of Artesia, New Mexico in unit letter K section 26 township 17S range 28E. A bore hole was advanced to 115 feet on the lease pad north of the release area. The bore hole was left open for 72 hours. The bore hole was dry at a depth of 115 feet. A remediation plan was submitted and approved by OCD on 12/28/2023.

The release area was excavated to depths ranging from 3 feet to 24 feet. All contaminated soil (2440 yards) was hauled to an OCD approved disposal facility. Final 5-point bottom and walls samples were collected in accordance with the OCD approved remediation plan. All samples collected were submitted to a commercial laboratory analysis for chloride, TPH, and BTEX. Once laboratory analysis were below table one standards for release greater than 100 feet to groundwater and the top four feet met reclamation standards the excavation was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The disturbed area was reseeded BLM #2 seed mixture.

Apache Corporation has completed remediation to below table one standards and reclamation standards and respectfully request closure of event.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff

larry.baker@apachecorp.com

Office # 432-818-1654

Cell# 432-250-8384

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Specialist Sr.
 Signature: *Larry Baker* Date: 7/1/2024
 email: larry.baker@apachecorp.com Telephone: 432-250-8384

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

From: [Baker, Larry](#)
To: [jq821052](#)
Cc: [Rocha, Cesar](#); [BARRIENTES, JEFFERY](#)
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 331185
Date: Tuesday, April 9, 2024 8:40:00 AM

FYI,

Final Sampling notifications approved

LARRY BRUCE BAKER, RSO
direct 432-818-1654 | mobile 432-250-8384

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, April 9, 2024 8:39 AM
To: Baker, Larry <Larry.Baker@apachecorp.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 331185

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To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2306042664.

The sampling event is expected to take place:

When: 04/11/2024 @ 09:00

Where: K-26-17S-28E 0 FNL 0 FEL (32.802643,-104.148154)

Additional Information: Joe mobile phone 575-441-2661

Additional Instructions: GPS: 32.802643 -104.148154

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- Failure to notify the OCD of sampling events including any changes in date/time per the

requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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From: [Hamlet, Robert, EMNRD](#)
To: [Baker, Larry](#)
Cc: [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 238581
Date: Monday, April 1, 2024 9:48:55 AM
Attachments: [image001.jpg](#)

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RE: Incident #**NAPP2306042664**

Larry,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **July 1st, 2024** is approved. Please include this e-mail correspondence in the Remediation Closure Report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Baker, Larry <Larry.Baker@apachecorp.com>
Sent: Thursday, March 28, 2024 4:22 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 238581

Mr. Hamlet,

I would like to ask for a 45 day extension for the EAU C-37 to complete. We have it scheduled to being remediation late next week or the first of the following week. Please let me know if you have

any questions or wish to discuss. Thanks and have a great weekend.

LARRY BRUCE BAKER, RSO
direct 432-818-1654 | mobile 432-250-8384

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, December 28, 2023 9:43 AM
To: Baker, Larry <Larry.Baker@apachecorp.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 238581

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2306042664, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All samples must be analyzed for all constituents listed in Table I of [19.15.29.12](#) NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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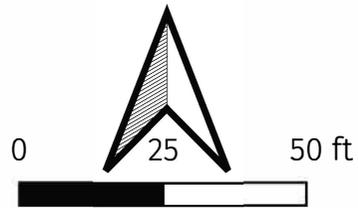
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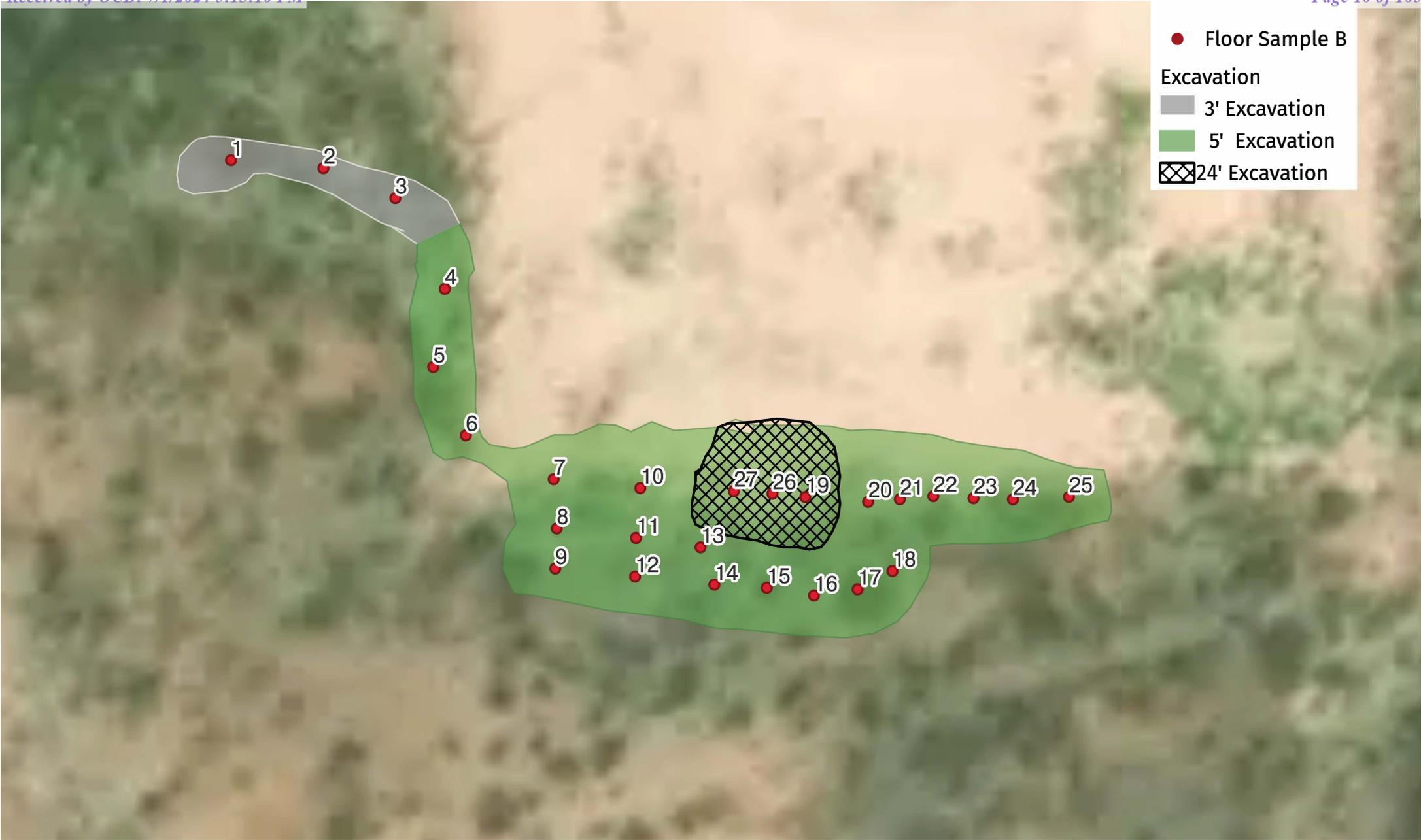
EAU C 37 Wall Summary														
SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
W1 WALL	H241919-01	0-3'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
W2 WALL	H241919-02	0-5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
W3 WALL	H241919-03	0-5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
W4 WALL	H242020-01	0-5'	COMP	4/16/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16
W5 WALL	H242020-02	0-5'	COMP	4/16/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
W6 WALL	H242020-03	0-5'	COMP	4/16/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
W7 WALL	H241919-04	0-5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
W8 WALL	H241981-01	0-5'	COMP	4/15/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
W9 WALL	H241981-02	0-5'	COMP	4/15/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
W10 WALL	H241981-03	0-5'	COMP	4/15/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
W11 WALL	H241954-01	0-5'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	389	57.5	446.5	128
W12 WALL	H241954-02	0-5'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	348	52.2	400.2	64
W13 WALL	H241954-03	0-3'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
W14 WALL	H241954-04	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4160
W15 WALL	H241954-05	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4280
W16 WALL	H241954-06	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4040
W17 WALL	H241954-07	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	420	69.7	489.7	4640
W18 WALL	H241981-04	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
W19 WALL	H241981-05	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
W20 WALL	H241981-06	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	1.87	<0.300	17.6	426	59.1	502.7	4160
W21 WALL	H241981-07	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	316	38.2	354.2	2960
W22 WALL	H241981-08	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.2	<10.0	47.2	4320
W23 WALL	H241981-09	5-24'	COMP	4/24/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77.1	<10.0	77.1	3520
W24 WALL	H242153-02	5-24'	COMP	4/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0
W24 WALL	H241981-10	5-19'	COMP	4/24/24	<0.050	0.173	0.868	4.88	5.92	162	1230	183	1575	272
W25 WALL	H242153-03	5-24'	COMP	4/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0
W25 WALL	H241981-11	5-19'	COMP	4/15/24	<0.050	0.158	0.737	3.91	4.81	151	1120	170	1441	288

EAU C 37 Floor Summary														
SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
B01 FLOOR	H241920-01	3'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
B02 FLOOR	H241920-02	3'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.1	<10.0	26.1	144
B03 FLOOR	H241920-03	3'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.6	<10.0	16.6	448
B04 FLOOR	H241920-04	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.6	<10.0	23.6	192
B05 FLOOR	H241920-05	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
B06 FLOOR	H241920-06	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.2	<10.0	19.2	256
B07 FLOOR	H241920-07	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.8	<10.0	43.8	656
B08 FLOOR	H241920-08	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2400
B09 FLOOR	H241920-09	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
B10 FLOOR	H241920-10	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	145	15.7	160.7	160
B11 FLOOR	H241920-11	5'	COMP	4/11/24	<0.050	<0.050	0.39	1.35	1.74	47.5	586	93.7	727.2	640
B12 FLOOR	H241920-12	5'	COMP	4/11/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1840
B13 FLOOR	H241953-01	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2640
B14 FLOOR	H241953-02	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
B15 FLOOR	H241953-03	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2080
B16 FLOOR	H241953-04	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800
B17 FLOOR	H241953-05	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5360
B18 FLOOR	H241953-06	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
B19 FLOOR	H241953-14	24'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29.9	<10.0	29.9	5920
B20 FLOOR	H241953-07	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.2	<10.0	39.2	752
B21 FLOOR	H241953-08	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	880
B22 FLOOR	H241953-09	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
B23 FLOOR	H241953-10	5'	COMP	4/12/24	<0.050	<0.050	0.050	0.57	0.72	21	752	20.7	523.7	432
B24 FLOOR	H241953-11	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.5	<10.0	27.5	192
B25 FLOOR	H241953-12	5'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	42.7	<10.0	42.7	208
B26 FLOOR	H241953-13	24'	COMP	4/12/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	199	31.2	231.1	4800
B27 FLOOR	H242153-01	24' 6"	COMP	4/23/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	<10.0	16.2	<10.0

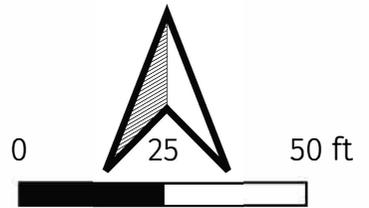


APACHE EMPIRE ABO UNIT C37
Wall Samples





APACHE EMPIRE ABO UNIT C37 BOTTOMS



Wall Number	Depth	Lat	Long
1	Bgs 0-3'	32.8028887146697	-104.148367440993
2	BGS 0-5'	32.8027633871898	-104.148257198439
3	Bgs 0-5	32.8026757467165	-104.148188898807
4	Bgs 0-5'	32.8025818112865	-104.148128265679
5	Bgs 0-5'	32.8025627109687	-104.147974673621
6	Bgs 0-5'	32.8025733620142	-104.147823601981
7	Bgs 0-5'	32.8026307364585	-104.14770915517
8	BGS 0-5'	32.8026999759549	-104.147775878349
9	Bgs 0-19	32.8027110411724	-104.147862664854
10	BGS 0-19	32.8027114162587	-104.148097764277
11	Bgs 0-5	32.8026973658518	-104.148185641063
12	BGS 0-5'	32.802797873063	-104.148205268878
13	BGS 0-3'	32.8029087102757	-104.148331658993
14	Bgs 5-19'	32.8026316666667	-104.147981666667
15	Bgs 5-19'	32.8026316666667	-104.147981666667
16	Bgs 5-19	32.8026283333333	-104.147951666667
17	Bgs 5-19	32.8026266666667	-104.14794
18	5-19'	32.8027113728717	-104.147963607582
19	BGS 5-19	32.8027102590094	-104.147985349111
20	Bgs 5-19'	32.802672306681	-104.148007510993
21	Bgs 5+19'	32.8026502580172	-104.148011574111
22	Bgs 5-19	32.8026283333333	-104.147895
23	Bgs 5-19	32.8026722571599	-104.147888034484
24	5-19'	32.8027110527763	-104.1479140521
25	5-19'	32.8027135871984	-104.147942566724

Number	Depth	Lat	Long
1	3'	32.8029018296814	-104.148414849056
2	3'	32.8028959103608	-104.148334864043
3	3'	32.8028741120554	-104.148272576592
4	5'	32.802808313507	-104.148229919687
5	5'	32.8027516666667	-104.14824
6	5'	32.8027019936078	-104.14821191702
7	5'	32.8026702823173	-104.148135905193
8	5'	32.8026344855914	-104.148133335786
9	5'	32.8026053926428	-104.148134659148
10	5'	32.8026636501413	-104.148060866967
11	5'	32.8026275447078	-104.148064662332
12	5'	32.8025994816909	-104.148065557851
13	5'	32.8026206442385	-104.148008803637
14	5'	32.802593526774	-104.147996880562
15	5'	32.8025912211372	-104.147951534776
16	5'	32.8025855244065	-104.147910627276
17	5'	32.8025899498761	-104.147872828633
18	5'	32.8026031624523	-104.147842596522
19	19'	32.8026569811783	-104.147917929233
20	5'	32.8026534673496	-104.147863596758
21	5'	32.8026552998819	-104.147836102523
22	5'	32.8026574616791	-104.147807073153
23	5'	32.8026559573551	-104.147772275069
24	5'	32.8026550973921	-104.14773812661
25	5'	32.8026567587994	-104.147689584103

26	19'	32.802659480008	-104.147946428562
27	24'	32.8026613801858	-104.147979812502



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

April 16, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: W 1 BGS 0-3' (H241919-01)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/13/2024	ND	188	93.9	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/13/2024	ND	202	101	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/13/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 0-5' (H241919-02)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/13/2024	ND	188	93.9	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/13/2024	ND	202	101	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/13/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: W 3 BGS 0-5' (H241919-03)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/13/2024	ND	188	93.9	200	1.01	
DRO >C10-C28*	<10.0	10.0	04/13/2024	ND	202	101	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	04/13/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: W 7 BGS 0-5' (H241919-04)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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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: <i>Apple</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company:			
Address: City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn: Address:			
Phone #: Fax #:		City: State: Zip:			
Project #:		Project Owner:			
Project Name:		State: Zip:			
Project Location: <i>EAD C-37</i>		Phone #:			
Sampler Name: <i>SOS</i>		Fax #:			
FOR LAB USE ONLY					
Lab I.D. <i>H41198</i> Sample I.D.	11 W1 BGS0-3'	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	MATRIX PRESERV:	DATE TIME	ANALYSIS REQUEST
	12 W2 BGS0-5'	C1 1	SOIL OIL SLUDGE OTHER:	4/11 10:58	CI BTEX EX T PH
	13 W3 BGS0-5'	C1 1	SOIL OIL SLUDGE OTHER:	11:00	CI
	14 W7 BGS0-5'	C1 1	SOIL OIL SLUDGE OTHER:	1:06	CI
	15 W7 BGS0-5'	C1 1	SOIL OIL SLUDGE OTHER:	1:14	CI

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Relinquished By: *[Signature]* Date: *4/11/24* Received By: *[Signature]* Date: *4/11/24*

Relinquished By: *[Signature]* Date: *4/11/24* Received By: *[Signature]* Date: *4/11/24*

Delivered By: (Circle One) Observed Temp. °C *1.3* Sample Condition Intact Cool Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C Yes No

Checked By: (Initials) *[Signature]*

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No

Thermometer ID #140 Correction Factor 0°C

REMARKS: *S-Mei/13 results*

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

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



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

April 16, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 3' (H241920-01)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 3' (H241920-02)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/15/2024	ND	432	108	400	7.69	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	26.1	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 3' (H241920-03)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	16.6	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 5' (H241920-04)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	26.3	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 5' (H241920-05)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 6 @ 5' (H241920-06)

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	04/13/2024	ND	2.08	104	2.00	1.42	
Toluene*	<0.050	0.050	04/13/2024	ND	2.10	105	2.00	0.740	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.05	102	2.00	0.515	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.20	103	6.00	0.913	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	19.2	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 7 @ 5' (H241920-07)

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	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	43.8	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 8 @ 5' (H241920-08)

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	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 9 @ 5' (H241920-09)

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	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 10 @ 5' (H241920-10)

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	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	145	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	15.7	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 11 @ 5' (H241920-11)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	0.390	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	1.35	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	1.74	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/15/2024	ND	480	120	400	3.39	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.5	10.0	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	586	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	93.7	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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:	04/11/2024	Sampling Date:	04/11/2024
Reported:	04/16/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	NOT GIVEN		

Sample ID: B 12 @ 5' (H241920-12)

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	04/13/2024	ND	1.97	98.7	2.00	2.26	
Toluene*	<0.050	0.050	04/13/2024	ND	2.15	108	2.00	1.19	
Ethylbenzene*	<0.050	0.050	04/13/2024	ND	2.16	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	04/13/2024	ND	6.61	110	6.00	1.87	
Total BTEX	<0.300	0.300	04/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/15/2024	ND	480	120	400	3.39	

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	04/12/2024	ND	194	96.9	200	4.14	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	209	105	200	8.04	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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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: <u>Apache</u> Project Manager: <u>Bruce Baker</u>		P.O. #: Company:	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: Address: City: State: Zip:	
Phone #: Project #:		Project Owner: City: State: Zip:	
Project Name:		Phone #: Fax #:	
Project Location: <u>EMUC-37</u>		Fax #:	
Sampler Name: <u>Jose Deane</u>		Matrix:	
FOR LAB USE ONLY		PRESERV:	
Sample I.D. <u>H241920</u> <u>Lab I.D.</u>		SAMPLING:	

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	EXT PH
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1 B103'	C	1						4/11	11:02				
2 B203'	C	1							11:04				
3 B303'	C	1							11:08				
4 B405'	C	1							11:10				
5 B505'	C	1							11:12				
6 B605'	C	1							12:58				
7 B705'	C	1							3:00				
8 B805'	C	1							3:02				
9 B905'	C	1							3:02				
10 B1005'	C	1							3:04				

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Relinquished By: Jose Deane Date: 4/11/24 Received By: Jose Deane Date: 4/11/24

Relinquished By: Jose Deane Date: 4/11/24 Received By: Jose Deane Date: 4/11/24

Delivered By: (Circle One) Observed Temp. °C 13.02 Sample Condition Cool Intact Yes No Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C

Turnaround Time: Standard Rush

Thermometer ID #140 Correction Factor 0°C

Bacteria (only) Sample Condition Cool Intact Yes No Yes No

Observed Temp. °C Corrected Temp. °C

REMARKS: 5 mo: 1 Results

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____		Project Location: <u>SHA C-37</u> Sample Name: <u>Soil</u> FOR LAB USE ONLY Lab I.D.: <u>H041978</u>	
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: <u>4/11/24</u> Time: <u>4:44</u>		Received By: _____ Date: <u>4-11-24</u> Time: <u>3:08</u>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>1.32</u> Corrected Temp. °C: _____		Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C: _____ Corrected Temp. °C: _____	
Turnaround Time: _____ Thermometer ID #140 Correction Factor 0°C: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C: _____ Corrected Temp. °C: _____	
REMARKS: <u>3 mo. Results</u>			
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com			



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

April 18, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/12/24 16:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 13 @ 5' (H241953-01)

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	04/15/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	04/16/2024	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	04/15/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 14 @ 5' (H241953-02)

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	04/15/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/16/2024	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	04/15/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 15 @ 5' (H241953-03)

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	04/15/2024	ND	2.34	117	2.00	0.405		
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	04/16/2024	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	04/15/2024	ND	206	103	200	4.77		
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	186	93.1	200	4.32		
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 16 @ 5' (H241953-04)

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	04/15/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/16/2024	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	04/15/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 17 @ 5' (H241953-05)

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	04/15/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	04/16/2024	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	04/15/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 18 @ 5' (H241953-06)

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	04/15/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/15/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/16/2024	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	04/16/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 20 @ 5' (H241953-07)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/16/2024	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	04/16/2024	ND	206	103	200	4.77	
DRO >C10-C28*	39.2	10.0	04/16/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 21 @ 5' (H241953-08)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/16/2024	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	04/16/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 22 @ 5' (H241953-09)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/16/2024	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	04/16/2024	ND	206	103	200	4.77	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 23 @ 5' (H241953-10)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	0.150	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	0.570	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	0.720	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/16/2024	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*	21.0	10.0	04/16/2024	ND	206	103	200	4.77	
DRO >C10-C28*	482	10.0	04/16/2024	ND	186	93.1	200	4.32	
EXT DRO >C28-C36	20.7	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 24 @ 5' (H241953-11)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/16/2024	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	04/15/2024	ND	188	93.8	200	5.80	
DRO >C10-C28*	27.5	10.0	04/15/2024	ND	194	96.8	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 25 @ 5' (H241953-12)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/16/2024	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	04/15/2024	ND	188	93.8	200	5.80	
DRO >C10-C28*	42.7	10.0	04/15/2024	ND	194	96.8	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 26 @ 24' (H241953-13)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/16/2024	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	04/15/2024	ND	188	93.8	200	5.80	
DRO >C10-C28*	199	10.0	04/15/2024	ND	194	96.8	200	7.08	
EXT DRO >C28-C36	31.2	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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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:	04/12/2024	Sampling Date:	04/12/2024
Reported:	04/18/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 19 @ 24' (H241953-14)

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	04/16/2024	ND	2.34	117	2.00	0.405	
Toluene*	<0.050	0.050	04/16/2024	ND	2.40	120	2.00	2.04	
Ethylbenzene*	<0.050	0.050	04/16/2024	ND	2.49	125	2.00	1.53	
Total Xylenes*	<0.150	0.150	04/16/2024	ND	7.45	124	6.00	0.805	
Total BTEX	<0.300	0.300	04/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	04/16/2024	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	04/15/2024	ND	188	93.8	200	5.80	
DRO >C10-C28*	29.9	10.0	04/15/2024	ND	194	96.8	200	7.08	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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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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: <i>Apache</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company:																		
Address: City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn: Address:																		
Phone #: Fax #:		City: State: Zip:																		
Project #: Project Owner:		Phone #:																		
Project Name:		State: Zip:																		
Project Location: <i>SHA C-37</i>		Phone #:																		
Sampler Name: <i>Jose Roa</i>		Fax #:																		
FOR LAB USE ONLY																				
Lab I.D. <i>H041953</i> Sample I.D.	1	B13 @ 5'	C	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CI	BTEX	EXT TPH	
	2	B14 @ 5'	C												4/12	8:46				
	3	B15 @ 5'	C													8:48				
	4	B16 @ 5'	C													8:56				
	5	B17 @ 5'	C													8:52				
	6	B18 @ 5'	C													8:54				
	7	B20 @ 5'	C													8:56				
	8	B21 @ 5'	C													9:00				
	9	B22 @ 5'	C													9:02				
	10	B23 @ 5'	C													9:04				
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Relinquished By: <i>Jose Roa</i>		Received By: <i>Michelle Webster</i>																		
Date: <i>7/1/24</i>		Date: <i>7/1/24</i>																		
Time: <i>4:58pm</i>		Time: <i>4:58pm</i>																		
Relinquished By:		Received By:																		
Delivered By: (Circle One)		Observed Temp. °C <i>1.6</i>																		
Sampler - UPS - Bus - Other:		Corrected Temp. °C																		
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <i>JS</i>																		
Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush		Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>																		
Thermometer ID #140 Correction Factor 0°C		All Results are emailed. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:																		
REMARKS: <i>E-Mail Results</i>																				

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



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: Bruce Baker		Company:													
Address:		Attn:													
City: Hobbs		Address:													
State: NM Zip: 88240		City:													
Phone #:		State:													
Project #:		Zip:													
Project Name:		PRESERV:													
Project Location: EAU C-37		SAMPLING													
Sampler Name: <i>Sac Clem</i>															
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	REMARKS
<i>H24953</i>	<i>B 24 @ 5'</i>		1			1							4/12	9:06	CL
	<i>B 25 @ 5'</i>		1			1							4/12	9:10	BTEX
	<i>B 26 @ 24'</i>		1			1							4/12	9:50	EXT TPH
	<i>B 19 @ 24'</i>		1			1							4/12	11:20	

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Relinquished By: *Sac Clem* Date: 7/1/24 Time: 4:58pm Received By: *William Delaney* Date: 7/1/24 Time: 1:14pm

Relinquished By: *Sac Clem* Date: 7/1/24 Time: 4:58pm Received By: *William Delaney* Date: 7/1/24 Time: 1:14pm

Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C Sample Condition Cool Intact Yes No Bacteria (only) Sample Condition Cool Intact Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C

Checked By: *AD* Initials

Turnaround Time: Standard Rush Add'l Phone #:

Thermometer ID #140 Correction Factor 0°C

REMARKS: E-mail Results

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

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



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

April 24, 2024

BRUCE BAKER
APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/12/24 16:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W 11 BGS 0-5'	H241954-01	Soil	12-Apr-24 10:56	12-Apr-24 16:58
W 12 BGS 0-5'	H241954-02	Soil	12-Apr-24 10:58	12-Apr-24 16:58
W 13 BGS 0-3'	H241954-03	Soil	12-Apr-24 11:00	12-Apr-24 16:58
W 14 BGS 5-24'	H241954-04	Soil	12-Apr-24 15:04	12-Apr-24 16:58
W 15 BGS 5-24'	H241954-05	Soil	12-Apr-24 15:02	12-Apr-24 16:58
W 16 BGS 5-24'	H241954-06	Soil	12-Apr-24 15:06	12-Apr-24 16:58
W 17 BGS 5-24'	H241954-07	Soil	12-Apr-24 15:08	12-Apr-24 16:58

04/24/24 - Client changed some of the sample IDs (see COC). This is the revised report and will replace the one sent on 04/18/24.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 11 BGS 0-5'
H241954-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041518	JH	16-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		71.5-134	4041518	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

Surrogate: 1-Chlorooctane			81.8 %		48.2-134	4041526	MS	15-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			81.0 %		49.1-148	4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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W 12 BGS 0-5'

H241954-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041518	JH	16-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4041518	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.1 %	48.2-134		4041526	MS	15-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.7 %	49.1-148		4041526	MS	15-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 13 BGS 0-3'
H241954-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041518	JH	16-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	4041518	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	66.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.7 %		48.2-134	4041526	MS	15-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.5 %		49.1-148	4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 14 BGS 5-24'
H241954-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4160		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041518	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041518	JH	16-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		4041518	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	389		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	57.5		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

Surrogate: 1-Chlorooctane			91.8 %	48.2-134		4041526	MS	15-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.8 %	49.1-148		4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 15 BGS 5-24'
H241954-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4280		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041531	JH	15-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041531	JH	15-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041531	JH	15-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041531	JH	15-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041531	JH	15-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4041531	JH	15-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	348		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	52.2		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

Surrogate: 1-Chlorooctane			79.9 %	48.2-134		4041526	MS	15-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			85.1 %	49.1-148		4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 16 BGS 5-24'
H241954-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4040		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041531	JH	16-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4041531	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	390		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	58.1		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

Surrogate: 1-Chlorooctane			91.7 %	48.2-134		4041526	MS	15-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.4 %	49.1-148		4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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**W 17 BGS 5-24'
H241954-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4640		16.0	mg/kg	4	4041615	AC	16-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041531	JH	16-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041531	JH	16-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4041531	JH	16-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
DRO >C10-C28*	420		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	
EXT DRO >C28-C36	69.7		10.0	mg/kg	1	4041526	MS	15-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			108 %	48.2-134		4041526	MS	15-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %	49.1-148		4041526	MS	15-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4041615 - 1:4 DI Water										
Blank (4041615-BLK1)										
Prepared & Analyzed: 16-Apr-24										
Chloride	ND	16.0	mg/kg							
LCS (4041615-BS1)										
Prepared & Analyzed: 16-Apr-24										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4041615-BSD1)										
Prepared & Analyzed: 16-Apr-24										
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041518 - Volatiles

Blank (4041518-BLK1)

Prepared & Analyzed: 15-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0551		mg/kg	0.0500		110	71.5-134			

LCS (4041518-BS1)

Prepared & Analyzed: 15-Apr-24

Benzene	2.34	0.050	mg/kg	2.00		117	82.8-130			
Toluene	2.40	0.050	mg/kg	2.00		120	86-128			
Ethylbenzene	2.49	0.050	mg/kg	2.00		125	85.9-128			
m,p-Xylene	4.94	0.100	mg/kg	4.00		124	89-129			
o-Xylene	2.51	0.050	mg/kg	2.00		125	86.1-125			
Total Xylenes	7.45	0.150	mg/kg	6.00		124	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0551		mg/kg	0.0500		110	71.5-134			

LCS Dup (4041518-BSD1)

Prepared & Analyzed: 15-Apr-24

Benzene	2.35	0.050	mg/kg	2.00		118	82.8-130	0.405	15.8	
Toluene	2.35	0.050	mg/kg	2.00		117	86-128	2.04	15.9	
Ethylbenzene	2.46	0.050	mg/kg	2.00		123	85.9-128	1.53	16	
m,p-Xylene	4.89	0.100	mg/kg	4.00		122	89-129	1.06	16.2	
o-Xylene	2.50	0.050	mg/kg	2.00		125	86.1-125	0.300	16.7	
Total Xylenes	7.39	0.150	mg/kg	6.00		123	88.2-128	0.805	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	71.5-134			

Batch 4041531 - Volatiles

Blank (4041531-BLK1)

Prepared & Analyzed: 15-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041531 - Volatiles

Blank (4041531-BLK1)

Prepared & Analyzed: 15-Apr-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500		105	71.5-134			

LCS (4041531-BS1)

Prepared & Analyzed: 15-Apr-24

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.11	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.25	0.150	mg/kg	6.00		104	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

LCS Dup (4041531-BSD1)

Prepared & Analyzed: 15-Apr-24

Benzene	2.21	0.050	mg/kg	2.00		110	82.8-130	4.56	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	4.58	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	4.69	16	
m,p-Xylene	4.40	0.100	mg/kg	4.00		110	89-129	3.92	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125	4.61	16.7	
Total Xylenes	6.52	0.150	mg/kg	6.00		109	88.2-128	4.15	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			

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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:32
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041526 - General Prep - Organics

Blank (4041526-BLK1)		Prepared & Analyzed: 15-Apr-24								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.7		mg/kg	50.0		79.4	48.2-134			
Surrogate: 1-Chlorooctadecane	38.7		mg/kg	50.0		77.3	49.1-148			

LCS (4041526-BS1)		Prepared & Analyzed: 15-Apr-24								
GRO C6-C10	188	10.0	mg/kg	200		93.8	66.4-123			
DRO >C10-C28	194	10.0	mg/kg	200		96.8	66.5-118			
Total TPH C6-C28	381	10.0	mg/kg	400		95.3	77.6-123			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	48.2-134			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.5	49.1-148			

LCS Dup (4041526-BSD1)		Prepared & Analyzed: 15-Apr-24								
GRO C6-C10	177	10.0	mg/kg	200		88.5	66.4-123	5.80	17.7	
DRO >C10-C28	180	10.0	mg/kg	200		90.2	66.5-118	7.08	21	
Total TPH C6-C28	357	10.0	mg/kg	400		89.3	77.6-123	6.45	18.5	
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.9	48.2-134			
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.7	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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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

BILL TO

ANALYSIS REQUEST

Company Name: **APack e**
 Project Manager: **Bruce Baker**
 Address:
 City: **Aebbs** State: **NM** zip: **88246**
 Phone #: Fax #: Attn:
 Project #: Project Owner: Address:
 Project Name: City: State: Zip:
 Project Location: **EAU C-37** Phone #: Fax #:
 Sampler Name: **Sos**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	C1	BTex	EXT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV					
HA41954															
1	W11 BGS @5' 0-5' *	C	1								4/11/24	10:58			
2	W12 BGS @5' 0-5'	C	1								4/11/24	10:58			
3	W13 BGS @3' 0-3'	C	1								4/11/24	11:00			
4	W14 BGS 5-18' 24'	C	1								4/11/24	3:04			
5	W15 BGS 5-18' 24'	C	1								4/11/24	3:02			
6	W16 BGS 5-18' 24'	C	1								4/11/24	3:06			
7	W17 BGS 5-18' 24'	C	1								4/11/24	3:08			

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Relinquished By: **Sos** Date: **4/11/24** Received By: **MICHELLE KEENE**
 Relinquished By: **Sos** Date: **4/11/24** Received By: **MICHELLE KEENE**
 Delivered By: (Circle One) Observed Temp. °C: **16** Sample Condition: Intact Cool Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C: Checked By: **V.S.**
 Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No
 Thermometer ID #140 Correction Factor 0°C: Corrected Temp. °C: Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: * Customer suggested Depth Change 5' to 4' 24' 24'

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



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

April 24, 2024

BRUCE BAKER
APACHE CORP - HOBBS
2350 W. MARLAND BLVD.
HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/15/24 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W 8 BGS 0-5'	H241981-01	Solid	15-Apr-24 11:12	15-Apr-24 16:40
W 9 BGS 0-5'	H241981-02	Solid	15-Apr-24 12:16	15-Apr-24 16:40
W 10 BGS 0-5'	H241981-03	Solid	15-Apr-24 10:42	15-Apr-24 16:40
W 18 BGS 5-24'	H241981-04	Solid	15-Apr-24 10:38	15-Apr-24 16:40
W 19 BGS 5-24'	H241981-05	Solid	15-Apr-24 10:40	15-Apr-24 16:40
W 20 BGS 5-24'	H241981-06	Solid	15-Apr-24 11:42	15-Apr-24 16:40
W 21 BGS 5-24'	H241981-07	Solid	15-Apr-24 11:44	15-Apr-24 16:40
W 22 BGS 5-24'	H241981-08	Solid	15-Apr-24 12:08	15-Apr-24 16:40
W 23 BGS 5-24'	H241981-09	Solid	15-Apr-24 12:10	15-Apr-24 16:40
W 24 BGS 5-19'	H241981-10	Solid	15-Apr-24 12:12	15-Apr-24 16:40
W 25 BGS 5-19'	H241981-11	Solid	15-Apr-24 12:14	15-Apr-24 16:40
B 27 @ 19'	H241981-12	Solid	15-Apr-24 11:46	15-Apr-24 16:40

04/24/24 - Client changed some sample IDs (see COC). This is the revised report and will replace the one sent on 04/19/24.

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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 8 BGS 0-5'
H241981-01 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

Surrogate: 1-Chlorooctane			115 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			115 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 9 BGS 0-5'
H241981-02 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.6 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.1 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 10 BGS 0-5'
H241981-03 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.7 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.1 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 18 BGS 5-24'
H241981-04 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	336		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.0 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.9 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 19 BGS 5-24'
H241981-05 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	352		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.2 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.3 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 20 BGS 5-24'
H241981-06 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4160		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	0.187		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	17.6		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	426		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	59.1		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

Surrogate: 1-Chlorooctane			92.0 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			91.9 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 21 BGS 5-24'
H241981-07 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2960		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	316		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	38.2		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

Surrogate: 1-Chlorooctane			89.1 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			89.7 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 22 BGS 5-24'
H241981-08 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4320		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	47.2		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.0 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 23 BGS 5-24'
H241981-09 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3520		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	77.1		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.7 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.7 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 24 BGS 5-19'
H241981-10 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	0.173		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	GC-NC1
Ethylbenzene*	0.868		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	4.88		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	5.92		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			200 %	71.5-134		4041629	JH	17-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	162		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	1230		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	183		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
Surrogate: 1-Chlorooctane			119 %	48.2-134		4041622	MS	16-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1-148		4041622	MS	16-Apr-24	8015B	

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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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**W 25 BGS 5-19'
H241981-11 (Solid)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	288		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	0.158		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	GC-NC1
Ethylbenzene*	0.737		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	3.91		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	4.81		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	GC-NC1
Surrogate: 4-Bromofluorobenzene (PID)			165 %	71.5-134		4041629	JH	17-Apr-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	151		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	1120		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	170		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
Surrogate: 1-Chlorooctane			115 %	48.2-134		4041622	MS	16-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1-148		4041622	MS	16-Apr-24	8015B	

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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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B 27 @ 19'
H241981-12 (Solid)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	5300		16.0	mg/kg	4	4041710	HM	17-Apr-24	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4041629	JH	17-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4041629	JH	17-Apr-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		4041629	JH	17-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
DRO >C10-C28*	1240		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	
EXT DRO >C28-C36	185		10.0	mg/kg	1	4041622	MS	16-Apr-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %	48.2-134		4041622	MS	16-Apr-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			119 %	49.1-148		4041622	MS	16-Apr-24	8015B	
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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 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4041710 - 1:4 DI Water										
Blank (4041710-BLK1)										
Prepared & Analyzed: 17-Apr-24										
Chloride	ND	16.0	mg/kg							
LCS (4041710-BS1)										
Prepared & Analyzed: 17-Apr-24										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4041710-BSD1)										
Prepared & Analyzed: 17-Apr-24										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041629 - Volatiles

Blank (4041629-BLK1)

Prepared: 16-Apr-24 Analyzed: 17-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	71.5-134			

LCS (4041629-BS1)

Prepared: 16-Apr-24 Analyzed: 17-Apr-24

Benzene	2.12	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.05	0.050	mg/kg	2.00		102	86-128			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	85.9-128			
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89-129			
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.17	0.150	mg/kg	6.00		103	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	71.5-134			

LCS Dup (4041629-BSD1)

Prepared: 16-Apr-24 Analyzed: 17-Apr-24

Benzene	2.00	0.050	mg/kg	2.00		99.8	82.8-130	5.90	15.8	
Toluene	2.01	0.050	mg/kg	2.00		101	86-128	1.87	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	85.9-128	0.593	16	
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89-129	2.15	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125	1.23	16.7	
Total Xylenes	6.28	0.150	mg/kg	6.00		105	88.2-128	1.84	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	71.5-134			

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: EAU C - 37 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432	Reported: 24-Apr-24 15:05
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4041622 - General Prep - Organics

Blank (4041622-BLK1)				Prepared & Analyzed: 16-Apr-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	54.4		mg/kg	50.0		109	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	55.5		mg/kg	50.0		111	49.1-148			

LCS (4041622-BS1)				Prepared & Analyzed: 16-Apr-24						
GRO C6-C10	213	10.0	mg/kg	200		107	66.4-123			
DRO >C10-C28	219	10.0	mg/kg	200		110	66.5-118			
Total TPH C6-C28	433	10.0	mg/kg	400		108	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	60.0		mg/kg	50.0		120	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	60.6		mg/kg	50.0		121	49.1-148			

LCS Dup (4041622-BSD1)				Prepared & Analyzed: 16-Apr-24						
GRO C6-C10	219	10.0	mg/kg	200		109	66.4-123	2.44	17.7	
DRO >C10-C28	225	10.0	mg/kg	200		112	66.5-118	2.43	21	
Total TPH C6-C28	443	10.0	mg/kg	400		111	77.6-123	2.44	18.5	
<i>Surrogate: 1-Chlorooctane</i>	59.5		mg/kg	50.0		119	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	59.7		mg/kg	50.0		119	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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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: <i>Apple</i>	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: <i>Bruce Baker</i>	Company:		
Address:	Attn:		
City: <i>Hobbs</i>	Address:		
State: <i>NM</i> Zip: <i>88240</i>	City:		
Phone #:	State:		
Project #:	Zip:		
Project Location: <i>SAU C-37</i>	Phone #:		
Project Name: <i>Sos Reese</i>	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	CI	BTEX	COT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<i>10284</i>	<i>BGS 6-5'</i>	<i>4-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11:12</i>	<i>11:14</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>1029</i>	<i>BGS 6-5'</i>	<i>4-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10:38</i>	<i>10:42</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>1030</i>	<i>BGS 6-5'</i>	<i>4-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>10:41</i>	<i>10:44</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>1031</i>	<i>BGS 5-14'</i>	<i>5-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>11:42</i>	<i>11:44</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>1032</i>	<i>BGS 5-14'</i>	<i>5-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>12:08</i>	<i>12:10</i>	<i>1</i>	<i>1</i>	<i>1</i>
<i>1033</i>	<i>BGS 5-14'</i>	<i>5-24'</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>12:10</i>	<i>12:12</i>	<i>1</i>	<i>1</i>	<i>1</i>

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Relinquished By: *Sos Reese* Date: *4/15/24* Received By: _____ Date: _____

Time: *16:40* Received By: _____

Relinquished By: _____ Date: _____ Received By: _____

Time: _____

Delivered By: (Circle One) Observed Temp. °C: *3.8* Corrected Temp. °C: _____

Sampler - UPS - Bus - Other: _____

Sample Condition: Intact Cool Yes No

Checked By: (Initials) _____

Turnaround Time: _____ Standard Add'l Phone #: _____

Thermometer ID #140 Correction Factor 0°C: _____ Bacteria (only) Sample Condition: Cool Intact Yes No

Corrected Temp. °C: _____

REMARKS: *Customer updated sample results duplins. Specifying 4.24.24*

FORWARD TO: 3-740711123

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apple</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: <u>88240</u>	
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Project Name: _____ Project Location: <u>SRU-C 39</u>	
Phone #: _____ Fax #: _____ Project Owner: _____		State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Name: _____ Project Location: <u>SRU-C 39</u>		State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Sampler Name: <u>Soc Debeard</u>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____	
FOR LAB USE ONLY <u>H241981</u> Lab I.D.		Sample I.D.	
11 W 25 B&S S-19' 12 B270 191		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: (C)RY COOL OTHER: _____	
DATE <u>4/15</u> <u>12:14</u> <u>4/15</u> <u>11:46</u>		DATE TIME TIME	
MATRIX PRESERV SAMPLING		ANALYSIS REQUEST	
Relinquished By: <u>Soc Debeard</u> Relinquished By: _____ Date: <u>4/15/24</u> Time: _____ Received By: _____ Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sample - UPS - Bus - Other: _____ Observed Temp. °C <u>3.802</u> Corrected Temp. °C _____ Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact Yes <input type="checkbox"/> No <input type="checkbox"/> No		Turnaround Time: _____ Thermometer ID #140 Correction Factor 0°C Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Intact Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	
REMARKS: <u>E-Med Results</u>		CHECKED BY: _____ (Initials)	

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

April 22, 2024

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/16/24 16:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shari Cisneros
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 0-5' (H242020-01)

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	04/18/2024	ND	2.06	103	2.00	0.499	
Toluene*	<0.050	0.050	04/18/2024	ND	2.01	101	2.00	0.608	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	0.667	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.14	102	6.00	0.414	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/18/2024	ND	448	112	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	04/17/2024	ND	185	92.4	200	1.51	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	174	87.2	200	0.0821	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shari Cisneros
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 0-5' (H242020-02)

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	04/18/2024	ND	2.06	103	2.00	0.499	
Toluene*	<0.050	0.050	04/18/2024	ND	2.01	101	2.00	0.608	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	0.667	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.14	102	6.00	0.414	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/18/2024	ND	448	112	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	04/17/2024	ND	185	92.4	200	1.51	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	174	87.2	200	0.0821	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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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:	04/16/2024	Sampling Date:	04/16/2024
Reported:	04/22/2024	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shari Cisneros
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 0-5' (H242020-03)

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	04/18/2024	ND	2.06	103	2.00	0.499	
Toluene*	<0.050	0.050	04/18/2024	ND	2.01	101	2.00	0.608	
Ethylbenzene*	<0.050	0.050	04/18/2024	ND	2.05	102	2.00	0.667	
Total Xylenes*	<0.150	0.150	04/18/2024	ND	6.14	102	6.00	0.414	
Total BTEX	<0.300	0.300	04/18/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/18/2024	ND	448	112	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	04/17/2024	ND	185	92.4	200	1.51	
DRO >C10-C28*	<10.0	10.0	04/17/2024	ND	174	87.2	200	0.0821	
EXT DRO >C28-C36	<10.0	10.0	04/17/2024	ND					

Surrogate: 1-Chlorooctane 68.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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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

BILL TO

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: EAC C-37
 Sampler Name: Jesse Reed
 FOR LAB USE ONLY

P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
		(G)RAB OR (C)OMP.	# CONTAINERS						
<u>H242020</u>	<u>W4 B65 0-5'</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GROUNDWATER			<u>11/18</u>	<u>11:18</u>	<u>CI</u>
	<u>W5 B65 0-5'</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WASTEWATER			<u>11/20</u>	<u>11:20</u>	<u>BTEY</u>
	<u>W6 B65 0-5'</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SOIL			<u>11/22</u>	<u>11:22</u>	<u>EXT PH</u>

PLEASE NOTE: Liability and/or damage. Customer's liability and/or damage shall be limited to the amount paid by the client for the analysis. 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 analysis. 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 on any of the above stated reasons or otherwise.

Relinquished By: Jesse Reed
 Date: 4/14/24
 Time: 4:16 pm
 Received By: Jesse Reed
 Date: _____
 Time: _____

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

REMARKS: E-mail Results

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Observed Temp. °C: _____
 Corrected Temp. °C: 1.6
 Sample Condition: Cool Intact
 Checked By: (Initials) JR

Turnaround Time: _____
 Thermometer ID #140 Standard Rush
 Correction Factor 9°C: _____
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C: _____

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

Final Excavation



Final Excavation



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 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

QUESTIONS

Action 360240

QUESTIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2306042664
Incident Name	NAPP2306042664 EAU C-37 @ 0
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	EAU C-37
Date Release Discovered	02/20/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 14 BBL Recovered: 0 BBL Lost: 14 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I
 1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 2

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 07/01/2024
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QUESTIONS, Page 3

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	19200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	71500
GRO+DRO (EPA SW-846 Method 8015M)	61650
BTEX (EPA SW-846 Method 8021B or 8260B)	506
Benzene (EPA SW-846 Method 8021B or 8260B)	13.1

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

On what estimated date will the remediation commence	04/01/2024
On what date will (or did) the final sampling or liner inspection occur	04/11/2024
On what date will (or was) the remediation complete(d)	05/03/2024
What is the estimated surface area (in square feet) that will be reclaimed	5400
What is the estimated volume (in cubic yards) that will be reclaimed	2440
What is the estimated surface area (in square feet) that will be remediated	5400
What is the estimated volume (in cubic yards) that will be remediated	2440

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 07/01/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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QUESTIONS, Page 6

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	331185
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/11/2024
What was the (estimated) number of samples that were to be gathered	46
What was the sampling surface area in square feet	4109

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5400
What was the total volume (cubic yards) remediated	2440
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	5400
What was the total volume (in cubic yards) reclaimed	2440
Summarize any additional remediation activities not included by answers (above)	The release was excavated in accordance with the approved remediation plan.

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

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

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 07/01/2024
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QUESTIONS, Page 7

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873 Action Number: 360240 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
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QUESTIONS

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	5400
What was the total volume of replacement material (in cubic yards) for this site	2440

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	05/03/2024

Summarize any additional reclamation activities not included by answers (above)	The excavation was backfilled with clean imported topsoil and the disturbed area was reseeded with BLM #2.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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

I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 07/01/2024
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QUESTIONS, Page 8

Action 360240

QUESTIONS (continued)

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 360240

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 360240
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2306042664 EAU C-37, thank you. This Remediation Closure Report is approved.	7/11/2024