303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

December 21, 2020
Re: Kincaid Watson Federal #1 Battery
Case # NRM2024462399

Background:

On 8/22/2020 a release occurred due to a 4 inch nipple on back of oil tank corroded. The release (GPS: 32.75349, -103.90671) is located east of Loco Hills, New Mexico in unit letter B section 18 township 18S range 31E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record. The three nearest wells of record suggest water is greater than 100 feet below ground surface.

On 10/20/2020 5 verticals were conducted utilizing a backhoe and a hand auger at SP 2. Samples were collected in one foot intervals and representative samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 10/30/2020 SP2, 4, and 5 were further delineated with depth. Samples were collected in one foot intervals and submitted to a commercial laboratory for analysis of TPH and BTEX. Three new verticals were conducted utilizing a backhoe and representative samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Horizontal 5 point surface samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area inside the battery will be excavated to extend reasonably possible and if below table one standards can't be obtain a request for deferment of that portion of the release will be submitted to OCD for approval. The areas outside the battery will be excavated to below table one standards for releases greater than 100 feet to groundwater. Once excavation is complete final 5 point bottom and wall samples will be collected not to exceed 500 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (1400 yards) will be hauled to an OCD approved disposal facility. Once laboratory results are below table one standards for releases greater than 100 feet to groundwater and below reclamation standards the excavation will be backfilled with clean imported caliche for the pad and clean imported top soil for the pasture to ground surface and contoured to the surrounding area. The pasture area will be reseeded in accordance with the BLM. The remediation will be completed within 90 days of OCD approval of the remediation plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, Field Notes, and Noxious Weed and Revegetation Plan, and Arch Survey

Submitted by;

Bruce Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-631-6982

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	158 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Larry Baker Title: Environmental Tech SR.

Signature: Larry Baker Date: 12/21/2020

email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Larry Baker Title: Environmental Tech SR.

Signature: Larry Baker Date: 12/21/2020

email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 03/09/2021

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

Signature: Chad Hensley Date: 03/09/2021

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
1	RA 11590
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
New Mexico State Land Office/Contact: Dallas Rippy	505-827-5760
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
PO Box 1148	Santa Fe / NM / 87504

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	47	24.00	N
	LONGITUDE	103	53	48.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
NE ¼	NW ¼	SW ¼	¼	32	17 ☐ NORTH ☑ SOUTH	31 ☑ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT
in Eddy County			
HYDROGRAPHIC SURVEY		**MAP NUMBER**	**TRACT NUMBER**

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD225	John Aguirre	Rodgers & Co., Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1/20/10	1/26/10		158	no water encountered

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☐ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER - SPECIFY: Hollow stem auger and core

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2010 APR 23 A 10: 32

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA

TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER RA-11590	POD NUMBER POD 1	TRN NUMBER 449198
LOCATION 17.31.32.312		PAGE 1 OF 2

EXPLORE

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 449198
File Nbr: RA 11590
Well File Nbr: RA 11590 POD1

May. 04, 2010

DALLAS RIPPY, ASST COMM OF RECR DIV
NEW MEXICO STATE LAND OFFICE
PO BOX 1148
SANTA FE, NM 87504

Greetings:

The above numbered permit was issued in your name on 01/22/2010.

The Well Record was received in this office on 04/23/2010, stating that it had been completed on 01/26/2010, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/31/2011.

If you have any questions, please feel free to contact us.

Sincerely,

Melinda Spivey
(575)622-6521

drywell

National Water Information System: Web Interface

Click to hideNews Bulletins

- **NOTICE** November 1, 2020 7:45 am ET: We are investigating some real-time data currently behind on the web.
  - **UPDATE** November 1, 7:15 pm ET: Real-time data delivery to NWISWeb has been restored at this time. We are continuing to monitor the situation for any further issues.
- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324502103495801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

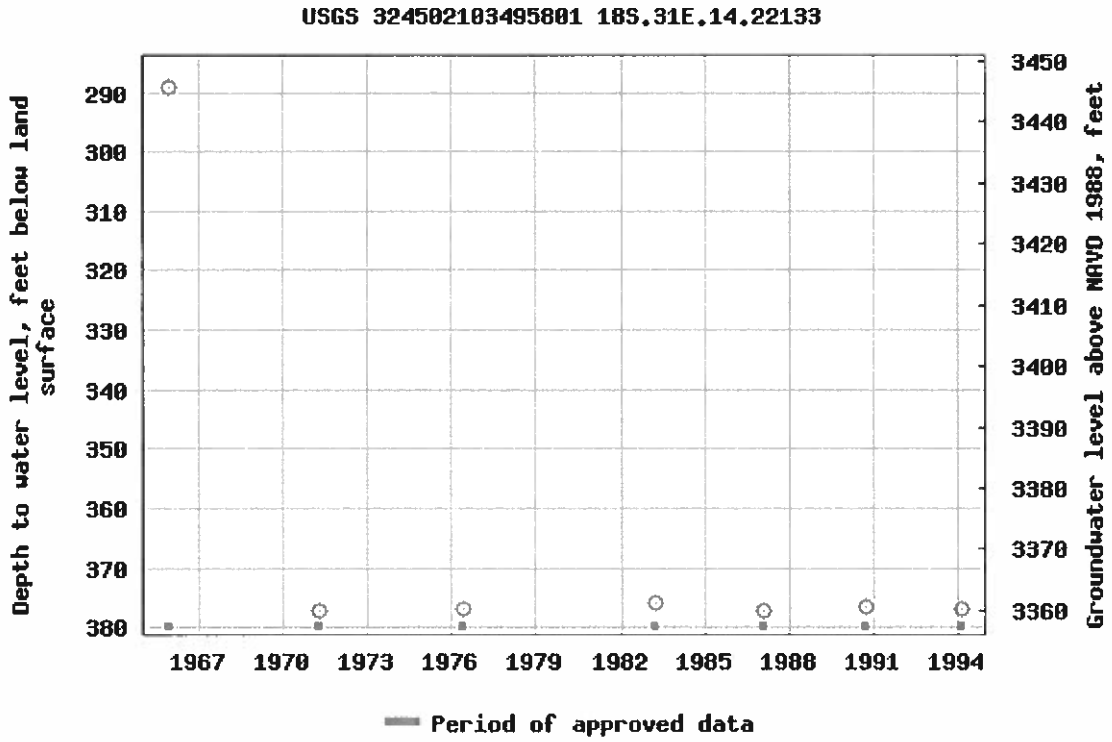
USGS 324502103495801 18S.31E.14.22133

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°45'02", Longitude 103°49'58" NAD27
Land-surface elevation 3,736 feet above NAVD88
The depth of the well is 400 feet below land surface.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-11-05 14:14:24 EST
1.52 0.6 nadww01

National Water Information System: Web Interface

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324405103565801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

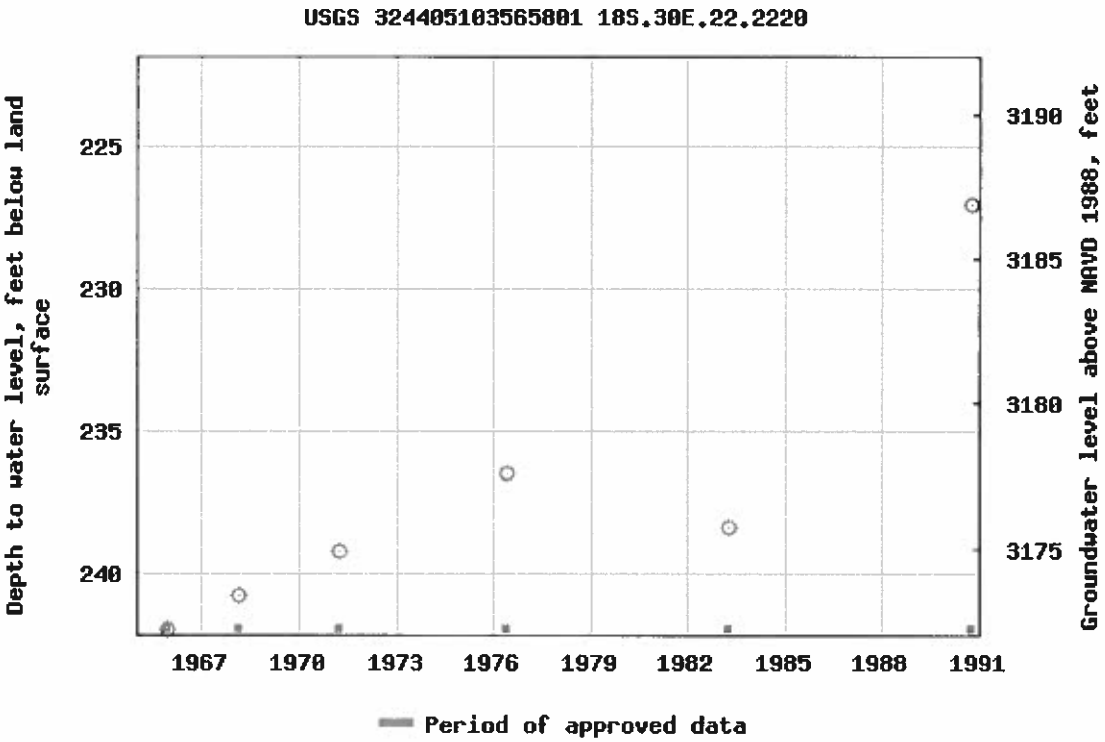
USGS 324405103565801 18S.30E.22.2220

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°44'05", Longitude 103°56'58" NAD27
Land-surface elevation 3,414 feet above NAVD88
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels
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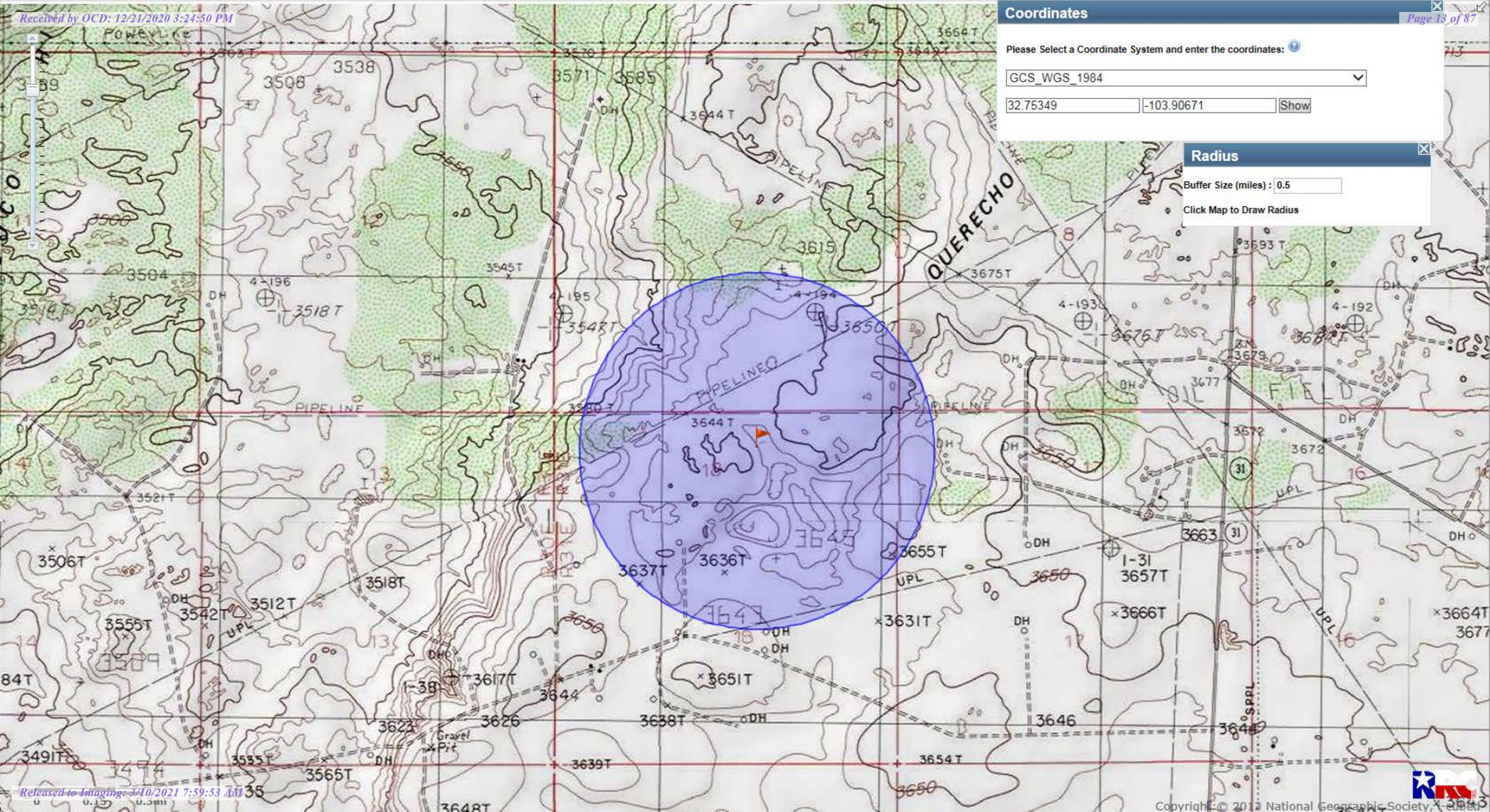
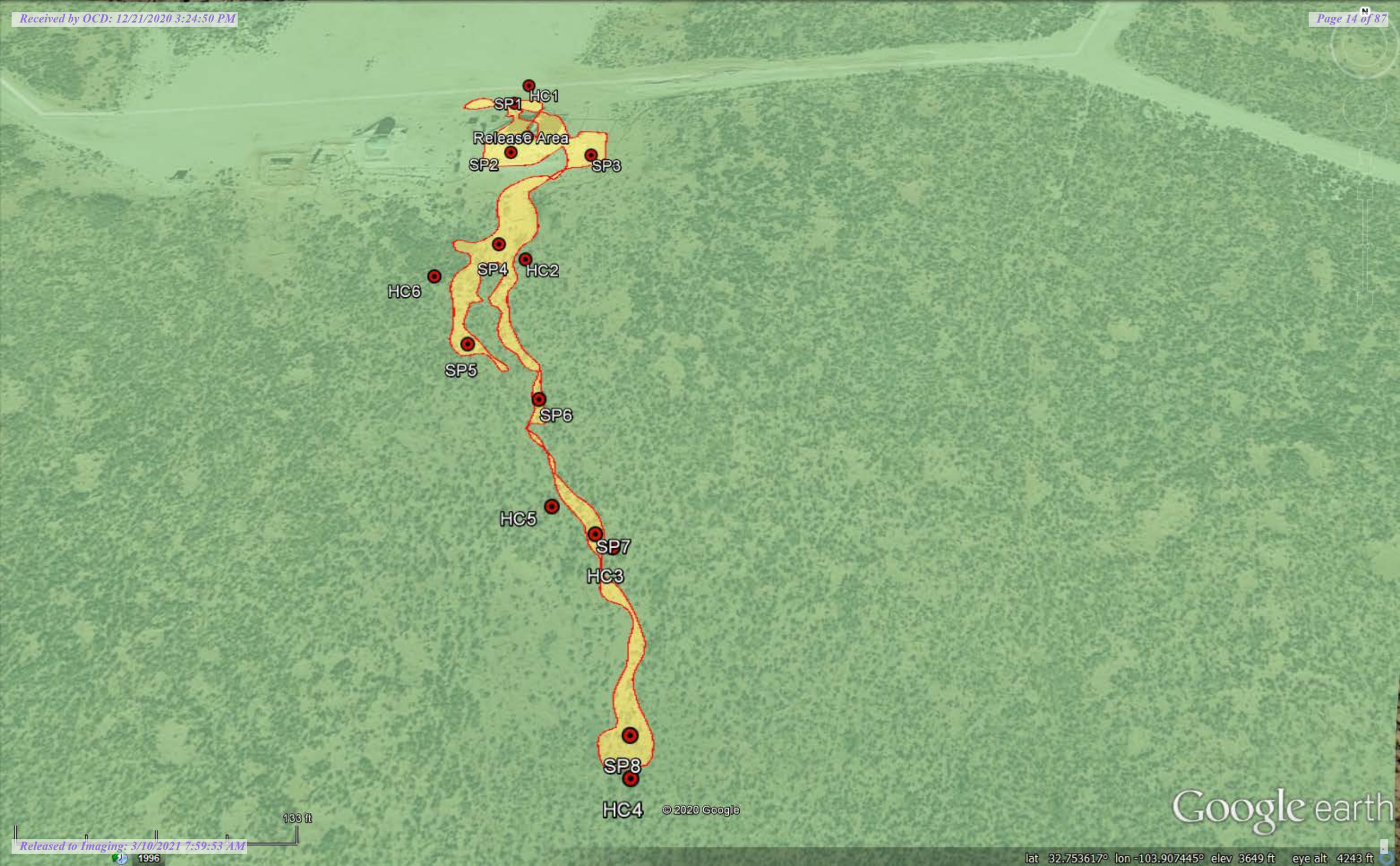
Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-11-05 14:15:51 EST
0.81 0.57 nadww01




HC1
SP1
Release Area
SP2
SP3
SP4
HC2
HC6
SP5
SP6
HC5
SP7
HC3
SP8
HC4
© 2020 Google
133 ft
1996
Google earth
lat 32.753617° lon -103.907445° elev 3649 ft eye alt 4243 ft

Vertical Delineation

Sample Date	Sample ID	Depth	Chloride Field	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/20/2020	SP 1	Surface	146	64	<0.200	8.80	15.9	21.7	46.4	416	36,000	8,560	32.753457 -103.906447
10/20/2020		1'	115										
10/20/2020		2'	141	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/20/2020		3'	285										
10/20/2020		4'	231	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.4	<10.0	
10/20/2020	SP2	Surface	12,024	17,600	<0.100	0.437	5.48	13.4	19.3	721	26,300	5,620	32.753337 -103.906443
10/20/2020		1'	5,529										
10/20/2020		2'	2,167	2,400	32.2	187	131	135	486	2,200	5,570	984	
10/20/2020		3'	1,131										
10/20/2020		4'	1,175	544	70.6	336	193	202	801	4,580	9,730	1,650	
10/20/2020		5'	979										
10/20/2020		6'	858	928	82.4	276	144	147	650	3,570	8,640	2,010	
10/20/2020		7'	446										
10/20/2020		8'	207	128	2.02	6.72	4.97	6.73	20.4	380	4,490	793	
10/30/2020		10'			0.057	0.218	0.227	0.440	0.942	10.5	161	22.1	
10/30/2020		12'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/20/2020	SP3	Surface	200	32	19.6	129	101	110	359	2,100	23,400	4,760	32.753328 -103.906273
10/20/2020		1'	142										
10/20/2020		2'	149	48	18	190	128	132	468	3,240	7,990	1,340	
10/20/2020		3'	209										
10/20/2020		4'	175	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/20/2020	SP4	Surface	145	16.0	5.48	102	111	132	351	2,540	31,200	6,030	32.753138 -103.906451
10/20/2020		1'	146										
10/20/2020		2'	140	16.0	4.32	176	196	215	591	3,620	10,100	1,700	
10/20/2020		3'	139										
10/20/2020		4'	142	16.0	<0.050	0.106	0.075	<0.150	<0.300	<10.0	139	19.7	
10/20/2020		5'	138	16.0	6.85	145	120	127	399	2,600	7,150	1,080	
10/30/2020		6'			<0.050	0.177	0.187	0.321	0.685	<10.0	39.7	<10.0	
10/30/2020		7'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.7	<10.0	
10/20/2020	SP5	Surface	142	16.0	<0.500	4.89	22.1	31	58	799	11,300	2,260	32.752936 -103.906492

10/20/2020		1'	113										
10/20/2020		2'	145	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	121	27.7	
10/30/2020		3'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/30/2020	SP6	Surface	143	<16.0	<0.050	10.5	13.3	22.1	46	434	12,400	2,710	32.752833 -103.906347
10/30/2020		1'	114										
10/30/2020		2'	146	<16.0	3.03	87.2	105	160	356	2,650	9,520	1,650	
10/30/2020		3'	90										
10/30/2020		4'	143	<16.0	3.53	89.6	90.2	132	315	2280	7,180	1,280	
10/30/2020		5'	117										
10/30/2020		6'	86	<16.0	0.107	2.04	2.42	3.71	8.28	61.3	405	80.5	
10/30/2020	SP7	Surface	118	32.0	0.214	9.62	12.0	21.1	42.9	428	12,100	2,900	32.752601 -103.906229
10/30/2020		1'	141										
10/30/2020		2'	115	<16.0	1.03	72.7	102	158	334	2,840	9,590	1,710	
10/30/2020		3'	111										
10/30/2020		4'	113	<16.0	1.81	105	111	174	392	2,800	8,850	1,560	
10/30/2020		5'	118										
10/30/2020		6'	89	<16.0	<0.050	0.111	<0.050	<0.150	<0.300	<10.0	10.1	<10.0	
10/30/2020	SP8	Surface	143	<16.0	3.41	46.1	48.9	81.2	180	1,510	24,800	4,680	32.752301 -103.906158
10/30/2020		1'	116										
10/30/2020		2'	83	<16.0	9.28	168	149	224	550	4,020	10,500	1,540	
10/30/2020		3'	147										
10/30/2020		4'	118	<16.0	17.1	224	157	233	631	3,910	9,130	1,410	
10/30/2020		5'	87										
10/30/2020		6'	89	<16.0	15.9	193	148	218	576	3,590	8,930	1,280	
10/30/2020		7'	120										
10/30/2020		8'	115	<16.0	0.068	0.312	0.098	<0.150	0.478	<10.0	16.3	<10.0	

Horizontal Composites

10/30/2020	HC1	Surface	140	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.75503 -103.906419
10/30/2020	HC2	Surface	114	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.753106 -103.906395
10/30/2020	HC3	Surface	119	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.752579 -103.906197
10/30/2020	HC4	Surface	149	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.752241 -103.906155

10/30/2020	HC5	Surface	113	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.752645 -103.906309
10/30/2020	HC6	Surface	141	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.753068 -103.906573

CARDINAL Laboratories

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

October 23, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 10/20/20 17:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H002785-01)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**8.80**	0.200	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**15.9**	0.200	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**21.7**	0.600	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**46.4**	1.20	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *140 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**416**	100	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**36000**	100	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**8560**	100	10/21/2020	ND					

Surrogate: 1-Chlorooctane *201 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *1370 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H002785-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTEX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *127 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *129 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H002785-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTEX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**59.4**	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *135 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *136 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H002785-04)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/23/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**0.437**	0.100	10/23/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**5.48**	0.100	10/23/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**13.4**	0.300	10/23/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**19.3**	0.600	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *142 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**17600**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**721**	100	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**26300**	100	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**5620**	100	10/21/2020	ND					

Surrogate: 1-Chlorooctane *222 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *952 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H002785-05)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**32.2**	1.00	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**187**	1.00	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**131**	1.00	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**135**	3.00	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**486**	6.00	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2400**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2200**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**5570**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**984**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *173 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *224 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 4' (H002785-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**70.6**	5.00	10/23/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**336**	5.00	10/23/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**193**	5.00	10/23/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**202**	15.0	10/23/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**801**	30.0	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**4580**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**9730**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**1650**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *262 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *347 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H002785-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**82.4**	2.00	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**276**	2.00	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**144**	2.00	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**147**	6.00	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**650**	12.0	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**928**	16.0	10/22/2020	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3570**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**8640**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**2010**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *217 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *315 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 8' (H002785-08)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**2.02**	0.200	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**6.72**	0.200	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**4.97**	0.200	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**6.73**	0.600	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**20.4**	1.20	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**380**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**4490**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**793**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *153 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *238 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H002785-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**19.6**	1.00	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**129**	1.00	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**101**	1.00	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**110**	3.00	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**359**	6.00	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2100**	100	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**23400**	100	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**4760**	100	10/21/2020	ND					

Surrogate: 1-Chlorooctane *237 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *788 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H002785-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**18.0**	2.00	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**190**	2.00	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**128**	2.00	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**132**	6.00	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**468**	12.0	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3240**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**7990**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**1340**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *240 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *315 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4' (H002785-11)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	<0.050	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *120 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *118 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H002785-12)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**5.48**	2.00	10/23/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**102**	2.00	10/23/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**111**	2.00	10/23/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**132**	6.00	10/23/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**351**	12.0	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2540**	100	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**31200**	100	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**6030**	100	10/21/2020	ND					

Surrogate: 1-Chlorooctane *325 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *943 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H002785-13)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**4.32**	2.00	10/23/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**176**	2.00	10/23/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**196**	2.00	10/23/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**215**	6.00	10/23/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**591**	12.0	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *134 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3620**	50.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	**10100**	50.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	**1700**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *268 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *365 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 4' (H002785-14)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**0.106**	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**0.075**	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	**139**	10.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	**19.7**	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *113 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *114 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 5' (H002785-15)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**6.85**	2.00	10/23/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**145**	2.00	10/23/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**120**	2.00	10/23/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**127**	6.00	10/23/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**399**	12.0	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2600**	50.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	**7150**	50.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	**1080**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *227 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *299 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H002785-16)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**4.89**	0.500	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	**22.1**	0.500	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	**31.0**	1.50	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	**58.0**	3.00	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *132 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**799**	50.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	**11300**	50.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	**2260**	50.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *202 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *416 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/23/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 2' (H002785-17)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	**0.062**	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	**121**	10.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	**27.7**	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane *136 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *138 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corporation
Project Manager: Bruce Baker
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name: Kincaid Watson
Project Location: Kincaid Watson
Sampler Name: Jeff Brown

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

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL-	BTEX	EXT. TPH
H002785																	
1	SP1 @ Surface												10/20/20	0910	✓	✓	✓
2	SP1 @ 2'													0914	✓	✓	✓
3	SP1 @ 4'													0918	✓	✓	✓
4	SP2 @ Surface													1020	✓	✓	✓
5	SP2 @ 2'													1023	✓	✓	✓
6	SP2 @ 4'													1025	✓	✓	✓
7	SP2 @ 6'													1027	✓	✓	✓
8	SP2 @ 8													1030	✓	✓	✓
9	SP3 @ Surface													1115	✓	✓	✓
10	SP3 @ 2'												10/21/20	1117	✓	✓	✓

Relinquished By: Jeff Brown Date: 10/20/20 Time: 1524
Received By: Tamara Oldaker
Relinquished By: Date: 1725 Time:
Received By: TO: 10/20/20

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C 3.9
Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO.

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

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc; Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.1 08/04/20

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corporation
Project Manager: Brea Baker
Address:
City: State: Zip:
Phone #: Fax #:
Project #: Project Owner:
Project Name: Kincaid Watson
Project Location: Kincaid Watson
Sampler Name: Jeff Brown

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

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL-	BTEX	EXT. TPH
H002785																	
11	SP3 @ 4'												10/20/20	1120	✓	✓	✓
12	SP4 @ Surface													1220	✓	✓	✓
13	SP4 @ 2'													1222	✓	✓	✓
14	SP4 @ 4'													1224	✓	✓	✓
15	SP4 @ 5'													1225	✓	✓	✓
16	SP5 @ Surface													1432	✓	✓	✓
17	SP5 @ 2'												10/20/20	1434	✓	✓	✓

Relinquished By: Jeff Brown
Date: 10/20/20
Time: 1524
Received By: Tamara Oldaker
Relinquished By:
Date: 10/20/20
Time: 1725
Received By: T.O.

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

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C 3.9
Corrected Temp. °C
Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor None
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.1 08/04/20

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

CARDINAL Laboratories

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

November 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 10/30/20 15:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 1 (H002879-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/03/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *95.2 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *103 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 2 (H002879-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *95.5 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *103 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 3 (H002879-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *90.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *98.1 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 4 (H002879-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *97.4 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *105 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 5 (H002879-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *96.8 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *103 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: HC 6 (H002879-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

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	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *92.9 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *101 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache Corporation
Project Manager:	Bruce Baker
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	Kincaid Watson
Project Location:	Kincaid Watson
Sampler Name:	J. Baum

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL-	BTEX	EXT. TPH
H002879																	
1	HC1	C				✓							10/3/20		✓	✓	✓
2	HC2	C				✓									✓	✓	✓
3	HC3	C				✓									✓	✓	✓
4	HC4	C				✓									✓	✓	✓
5	HC5	C				✓									✓	✓	✓
6	HC6	C				✓							10/3/20		✓	✓	✓

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 consequental 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: Jeff Baum	Date: 10/3/20 Time: 1538	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.8 Corrected Temp. °C	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) JO.	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #97 → #113 Correction Factor +0.4 °C → 10/30/20

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.0

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

CARDINAL Laboratories

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

November 04, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: KINCAID WATSON

Enclosed are the results of analyses for samples received by the laboratory on 10/30/20 15:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 6' (H002880-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	**0.177**	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**0.187**	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**0.321**	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**0.685**	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *73.3-129*

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	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**39.7**	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *96.2 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *105 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 7' (H002880-02)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *73.3-129*

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	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**22.7**	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *104 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *112 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H002880-03)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	<0.050	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *73.3-129*

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	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *99.8 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *109 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H002880-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**10.5**	0.500	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**13.3**	0.500	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**22.1**	1.50	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**46.0**	3.00	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**434**	100	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**12400**	100	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**2710**	100	11/02/2020	ND					

Surrogate: 1-Chlorooctane *152 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *496 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 2' (H002880-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.03**	2.00	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**87.2**	2.00	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**105**	2.00	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**160**	6.00	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**356**	12.0	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2650**	50.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**9520**	50.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**1650**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *433 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *364 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 4' (H002880-06)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.53**	1.00	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**89.6**	1.00	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**90.2**	1.00	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**132**	3.00	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**315**	6.00	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2280**	50.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**7180**	50.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**1280**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *329 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *298 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 6' (H002880-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.107**	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	**2.04**	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**2.42**	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**3.71**	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**8.28**	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**61.3**	10.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**405**	10.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**80.5**	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *114 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *128 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H002880-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.214**	0.200	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	**9.62**	0.200	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**12.0**	0.200	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**21.1**	0.600	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**42.9**	1.20	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *127 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**428**	100	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**12100**	100	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**2900**	100	11/02/2020	ND					

Surrogate: 1-Chlorooctane *159 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *512 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 2' (H002880-09)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.03**	1.00	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**72.7**	1.00	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**102**	1.00	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**158**	3.00	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**334**	6.00	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *136 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2840**	50.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**9590**	50.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**1710**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *445 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *337 %* *42.2-156*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 4' (H002880-10)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.81**	1.00	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**105**	1.00	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**111**	1.00	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**174**	3.00	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**392**	6.00	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *133 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2800**	50.0	11/02/2020	ND	206	103	200	0.652	
DRO >C10-C28*	**8850**	50.0	11/02/2020	ND	193	96.6	200	0.889	
EXT DRO >C28-C36	**1560**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *408 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *356 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 6' (H002880-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/02/2020	ND	2.10	105	2.00	1.27	
Toluene*	**0.111**	0.050	11/02/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	<0.050	0.050	11/02/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	<0.150	0.150	11/02/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	<0.300	0.300	11/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

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	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**10.1**	10.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *99.4 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *95.1 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H002880-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.41**	1.00	11/03/2020	ND	2.10	105	2.00	1.27	
Toluene*	**46.1**	1.00	11/03/2020	ND	2.07	103	2.00	1.22	
Ethylbenzene*	**48.9**	1.00	11/03/2020	ND	2.05	102	2.00	1.42	
Total Xylenes*	**81.2**	3.00	11/03/2020	ND	5.93	98.8	6.00	1.24	
Total BTEX	**180**	6.00	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1510**	100	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**24800**	100	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	**4680**	100	11/02/2020	ND					

Surrogate: 1-Chlorooctane *239 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *773 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 2' (H002880-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**9.28**	2.00	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	**168**	2.00	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	**149**	2.00	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	**224**	6.00	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	**550**	12.0	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**4020**	50.0	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**10500**	50.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	**1540**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *250 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *341 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 4' (H002880-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**17.1**	2.00	11/04/2020	ND	2.05	102	2.00	1.61	
Toluene*	**224**	2.00	11/04/2020	ND	2.00	100	2.00	1.75	
Ethylbenzene*	**157**	2.00	11/04/2020	ND	1.98	99.2	2.00	2.53	
Total Xylenes*	**233**	6.00	11/04/2020	ND	5.76	96.0	6.00	2.50	
Total BTEX	**631**	12.0	11/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3910**	50.0	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**9130**	50.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	**1410**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *229 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *274 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 6' (H002880-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**15.9**	2.00	11/04/2020	ND	2.05	102	2.00	1.61	
Toluene*	**193**	2.00	11/04/2020	ND	2.00	100	2.00	1.75	
Ethylbenzene*	**148**	2.00	11/04/2020	ND	1.98	99.2	2.00	2.53	
Total Xylenes*	**218**	6.00	11/04/2020	ND	5.76	96.0	6.00	2.50	
Total BTEX	**576**	12.0	11/04/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3590**	50.0	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**8930**	50.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	**1280**	50.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *218 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *284 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 8' (H002880-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.068**	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	**0.312**	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	**0.098**	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	**0.478**	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/03/2020	ND	400	100	400	3.92	

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	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**16.3**	10.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *98.1 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *92.4 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 10' (H002880-17)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.057**	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	**0.218**	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	**0.227**	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	**0.440**	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	**0.942**	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**10.5**	10.0	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	**161**	10.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	**22.1**	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *91.0 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *94.5 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/30/2020	Sampling Date:	10/30/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	KINCAID WATSON	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 12' (H002880-18)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *73.3-129*

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	11/02/2020	ND	234	117	200	2.12	
DRO >C10-C28*	<10.0	10.0	11/02/2020	ND	226	113	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	11/02/2020	ND					

Surrogate: 1-Chlorooctane *97.6 %* *44.3-144*

Surrogate: 1-Chlorooctadecane *92.3 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache Corporation	**BILL TO**	
Project Manager:	Bruce Baker	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:	Kincaid Watson	State: Zip:	
Project Location:	Kincaid Watson	Phone #:	
Sampler Name:	J. Brown	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	CL	BTEX	EXT. TPH								
H002880																									
1	SP4 @ 6'	G	6			✓							10/24/20	1028		✓	✓								
2	SP4 @ 7'	G	6			✓							10/24/20	1029		✓	✓								
3	SP5 @ 3'	G	6			✓							10/24/20	1030		✓	✓								
4	SP6 @ Surface	G	6			✓							10/30/20	1100	✓	✓	✓								
5	SP6 @ 2'	G	6			✓							10/30/20	1102	✓	✓	✓								
6	SP6 @ 4'	G	6			✓							10/30/20	1104	✓	✓	✓								
7	SP6 @ 6'	G	6			✓							10/30/20	1106	✓	✓	✓								
8	SP7 @ Surface	G	6			✓							10/30/20	1120	✓	✓	✓								
9	SP7 @ 2'	G	6			✓							10/30/20	1122	✓	✓	✓								
10	SP7 @ 4'	G	6			✓							10/30/20	1124	✓	✓	✓								

Relinquished By:	Date: 10/31/20	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Jeff Brown	Time: 1534	Tamara Oldaker	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 2-8	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☑ Yes ☑ Yes ☐ No ☐ No	T.O.	Thermometer ID #97 ~~#97~~ #113 T.O. 12/30/20 Correction Factor ~~+0.4 °C~~

Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.0

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		BILL TO	
Company Name:	Apache Corporation	P.O. #:	
Project Manager:	Bruce Baker	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:	Kincaid Watson	Phone #:	
Project Location:	Kincaid Watson	Fax #:	
Sampler Name:	J. Brown		

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Cl-	BTEX	EXT. TPH
H002880																	
11	SP7 @ 6'	G				✓							10/30/20	1126	✓	✓	✓
12	SP8 @ Surface	G				✓							10/30/20	1140	✓	✓	✓
13	SP8 @ 2'	G				✓							10/30/20	1142	✓	✓	✓
14	SP8 @ 4'	G				✓							10/30/20	1144	✓	✓	✓
15	SP8 @ 6'	G				✓							10/30/20	1146	✓	✓	✓
16	SP8 @ 8'	G				✓							10/30/20	1148	✓	✓	✓
17	SP2 @ 10'	G				✓							10/30/20	1300		✓	✓
18	SP2 @ 12	G				✓							10/30/20	1305		✓	✓

Relinquished By:	Date: 10/30/20 Time: 1534	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.8 Corrected Temp. °C	Sample Condition Cool: ~~Yes~~ ☐ No Intact: ~~Yes~~ ☐ No	CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID ~~#97~~ #113 T.O.
Correction Factor ~~+0.4 °C~~ 10/30/20

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.0

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

Kincaid Watson Delineation 10/20/19

SP1 @ Surface -32.753457, -103.906447

10.3/30.2=2.93 = .05 = 146 0910

SP1 @ 1'

10.4/30.2=2.90 = .04 = 115 0912

SP1 @ 2'

10.6/30.2=2.84 = .05 = 141 0914

SP1 @ 3'

10.5/30.1=2.86 = .10 = 285 0916

SP1 @ 4'

10.4/30.2=2.90 = .08 = 231 0918

SP2 @ Surface -32.753337, -103.906443

10.1/30.0=2.97 = 4.05 = 12,024 1020

SP2 @ 1'

10.1/30.2=2.99 = 1.85 = 5,529 1022

SP2 @ 2'

10.1/30.0=2.97 = .73 = 2,167 1023

SP2 @ 3'

10.6/30.1=2.83 = .45 = 1,131 1024

SP2 @ 4'

10.3/30.3=2.94 = .40 = 1,175 1025

SP2 @ 5'

10.8/30.3=2.80 = .35 = 979 1026

SP2 @ 6'

10.2/30.2 = 2.96 = .29 = 858 1027

SP2 @ 7'

10.1/30.1 = 2.98 = .15 = 446 1028

SP2 @ 8'

10.2/30.3 = 2.97 = .07 = 207 1030

SP3 @ Surface - 32.753328, -103.906273

10.5/30.1 = 2.86 = .07 = 200 1115

SP3 @ 1'

10.5/30.1 = 2.86 = .05 = 142 1116

SP3 @ 2'

10.0/30.0 = 3 = .05 = 149 1117

SP3 @ 3'

10.0/30.0 3 = .07 = 209 1118

SP3 @ 4'

10.3/30.1 = 2.92 = .06 = 175 1120

SP4 @ Surface - 32.753138, -103.906451

10.4/30.3 = 2.91 = .05 = 145 1220

SP4 @ 1'

10.3/30.3 = 2.94 = .05 = 146 1221

SP4 @ 2'

10.7/30.2 = 2.82 = .05 = 140 1222

SP4 @ 3'

10.7 / 30.0 = 2.80 = .05 = 139 1223

SP4 @ 4'

10.5 / 30.1 = 2.86 = .05 = 142 1224

SP4 @ 5'

10.8 / 30.0 = 2.77 = .05 = 138 1225

SP5 @ Surface - 32.752936, -103.906492

10.5 / 30.0 = 2.85 = .05 = 142 1432

SP5 @ 1'

10.6 / 30.0 = 2.83 = .04 = 113 1433

SP5 @ 2'

10.3 / 30.1 = 2.92 = .05 = 145 1434

Kincaid Watson Battery 10/30/20

SP2 @ 9' - TPH only

SP4 @ 6' - TPH only [redacted]

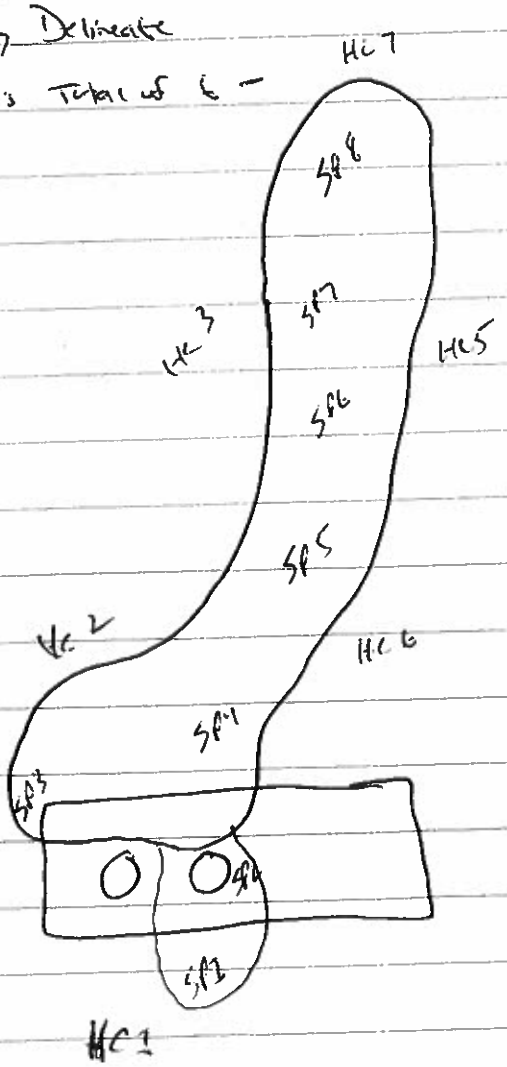
SP5 @ 3' - TPH only [redacted]

SP6 - Fully Delineate

SP7 Fully Delineate

SP8 - Fully Delineate

- Get Horizontals Total of 6 -



JKincaid Watson 11/30/20

SP2 @ 9' - Strong smell of TPH

SP6 @ Surface — 32.752833, -103.906347 Smell

10.5/30.2 = 2.87 = .05 = 143 Strong

SP6 @ 1'

10.5/30.2 = 2.87 = .04 = 114 Strong

SP6 @ 2'

10.2/30.0 = 2.94 = .05 = 146 Strong

SP6 @ 3'

10.0/30.3 = 3.03 = .03 = 90 Strong

SP6 @ 4'

10.5/30.2 = 2.87 = .05 = 143 Strong

SP6 @ 5'

10.3/30.2 = 2.93 = .04 = 117 Hint

SP6 @ 6'

10.4/30.0 = 2.88 = .03 = 86 Hint

SP 7 @ Surface — 32.752601, -103.906229

10.1/30.0 = 2.97 = .04 = 118 Strong

SP7 @ 1'

10.6/30.1 = 2.83 = .05 = 141 Strong

SP7 @ 2'

10.4/30.0 = 2.88 = .04 = 115 Strong

SP7 @ 3'

[illegible] = .04 = 111 Strong

SP7@4' Strong

10.7/30.3 = 2.83 = .04 = 113

SP7@5' hint

10.1/30.0 = 2.97 = .04 = 118

SP7@6' hint

10.1/30.0 = 2.97 = .03 = 89

SP8@Surface — 32.752301, -103.906158 Strong

10.5/30.2 = 2.87 = .05 = 143

SP8@1' Strong

10.3/30.0 = 2.91 = .04 = 116

SP8@2' Strong

10.8/30.0 = 2.77 = .03 = 83

SP8@3' Strong

10.2/30.1 = 2.95 = .05 = 147

SP8@4' Strong

10.2/30.3 = 2.97 = .04 = 118

SP8@5' Strong

10.3/30.1 = 2.92 = .03 = 87

SP8@6' lite smell

10.2/30.3 = 2.97 = .03 = 89

SP8@7' lite smell

10.0/30.2 = 3.02 = .04 = 120

SP8@8' no smell

10.4/30.2 = 2.90 = .04 = 115

HC2 – 32.753503, -103.906419

10.7/30.2 = 2.82 = .05 = 140

HC2 – 32.753106, -103.906395

10.5/30.2 = 2.87 = .04 = 114

HC3 – 32.752579, -103.906197

10.1/30.1 = 2.98 < .04 = 119

HC4 – 32.752241, -103.906155

10.2/30.2 = 299 = .05 = 149

HC5 – 32.752645, -103.906309

10.6/30.2 = 2.84 = .04 = 113

HC6 – 32.753068, -103.906573

10.6/30.0 = 2.83 = .05 = 141

Revegetation
And
Noxious Weed Plan

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and reseeded with BLM #2 seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

NMCRIS No.: 146543

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.:	2a. Lead Agency:	2b. Other Agency(ies):	3. Lead Agency Report No.:
146543	US Bureau of Land Management Carlsbad Field Office		

4. Title of Report:

A Class III Archaeological Survey for the Apache Corporation Kincaid Watson Fed 1 Oil Release Remediation, Eddy County, New Mexico

Author(s)

Galassini, Stacy K. and Joshua W. Broxson

5. Type of Report

☑ Negative

☐ Positive

6. Investigation Type

☐ Research Design ☑ Archaeological Survey/Inventory ☐ Architectural Survey/Inventory ☐ Test Excavation ☐ Excavation
☐ Collections/Non-Field Study ☐ Compliance Decision Based on Previous Inventory ☐ Overview/Lit Review ☐ Monitoring
☐ Ethnographic Study ☐ Site/Property Specific Visit ☐ Historic Structures Report ☐ Other

7. Description of Undertaking (what does the project entail?):

A pedestrian cultural resources survey was conducted for a release at the Kincaid Watson Fed 1 in Eddy County, NM, on federal land in Section 18 of T18S R31E. The release extends southeast off of the Kincaid Watson Fed 1 pad and totals 0.19 acres.

[ ] Continuation

8. Dates of Investigation: from: 11-Sep-2020 to: 11-Sep-2020

9. Report Date: 14-Sep-2020

10. Performing Agency/Consultant: Boone Archaeological Resource Consultants, LLC.

Principal Investigator: Stacy K. Galassini

Field Supervisor: Dane Womble

Field Personnel Names: Erick Martinez

Historian / Other:

11. Performing Agency/Consultant Report No.:

BARC 09-20-13

12. Applicable Cultural Resource Permit No(s):

BLM Permit No.: 190-2970-20-AA

NMCRIS No.: 146543

13. Client/Customer (project proponent):

Apache Corporation

Contact: Jeffrey Broom

Address: **Phone:**

14. Client/Customer Project No.:

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	3.71	3.71
TOTALS	3.71	3.71

16. Records Search(es):

Date(s) of HPD/ARMS File Review: 11 Sep 2020	Name of Reviewer(s): S.K. Galassini	
Date(s) of Other Agency File Review: 11 Sep 2020	Name of Reviewer(s): S.K. Galassini	Agency: BLM/CFO

17. Survey Data:

a. Source Graphics [ ] NAD 27 [x] NAD 83 Note: NAD 83 is the NMCRIS standard.

☑ **USGS 7.5' (1:24,000) topo map** ☐ **Other topo map, Scale:**

☑ **GPS Unit Accuracy** ☑ **<1.0m** ☐ **1-10m** ☐ **10-100m** ☐ **>100m** ☐ **Aerial Photo(s)**

Other Source Graphic(s):

b. USGS 7.5' Topographic Map Name **USGS Quad Code**

Loco Hills, NM	32103-G8

c. County(ies): EDDY

d. Nearest City or Town: Loco Hills, NM

e. Legal Description:

Township (N/S)	Range (E/W)	Section
18S	31E	18

Projected legal description? [ ] Yes [ ] No [ ] Unplatted

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

[ ] Continuation

18. Survey Field Methods:

Intensity: ☑ 100% coverage ☐ <100% coverage

NMCRIS No.: 146543

Configuration: ☑ block survey units ☐ linear survey units (l x w):
☐ other survey units (specify):

Scope: ☑ non-selective (all sites/properties recorded) ☐ selective/thematic (selected sites/properties recorded)

Coverage Method: ☑ systematic pedestrian coverage

☐ other method (describe):

Survey Interval (m): 15 **Crew Size:** 2 **Fieldwork Dates:** from: 11-Sep-2020 to: 11-Sep-2020

Survey Person Hours: 1.00 **Recording Person Hours:** 0.00 **Total Hours:** 1.00

Additional Narrative:

The release which extended beyond the pad and a buffer area were surveyed using 50 ft. parallel transects across an irregular block area providing at least 100 ft. of clearance. The survey area totals 3.71 acres.
There are two previously recorded cultural resources within ¼ mile of the project area: LAs 79630 and 81269.

[ ] Continuation

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

According to the Natural Resources Conservation Service' online database, the release area soils consist of Kermit soils. These soils are associated with the Deep Sand ecological site (R042XC005NM) which typically supports dropseed, threeawn, and bluestem grasslands with an even distribution of shinnery oak and yucca. The current vegetative community consists of mesquite, broom snakeweed, shinnery oak, sage, prickly pear, and desert forbs and grasses. The survey area falls on rolling hills with low coppice dunes. The elevation ranges from 3,630 ft. – 3,650 ft. above mean sea level.

[ ] Continuation

20.a. Percent Ground Visibility: 51%-75% **b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**

The survey area has been affected by an oil release, well pad, buried pipeline, electric line, two-track road, lease road, flowlines, erosion, burrowing, and cattle grazing.

[ ] Continuation

21. CULTURAL RESOURCE FINDINGS ☐ **Yes, see next report section** ☑ **No, discuss why:**

No cultural resources were recorded or updated during the survey. The lack of cultural resources is likely due to the small survey area and high level of disturbance

[ ] Continuation

22. Attachments (check all appropriate boxes):

[x] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)

[x] Copy of NMCRIS Map Check (required)

[ ] LA Site Forms - new sites (with sketch map & topographic map) if applicable

[ ] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)

[ ] Historic Cultural Property Inventory Forms, if applicable

[ ] List and Description of Isolates, if applicable

[ ] List and Description of Collections, if applicable

23. Other Attachments:

[ ] Photographs and Log

[x] Other Attachments
(Describe): Pre-field Form

NMCRIS No.: 146543

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: **Printed Name:** Stacy K. Galassini

Signature: Stacy K. Galassini **Date:** 9/14/20 **Title:** Principal Investigator

25. Reviewing Agency	**26. SHPO**
Reviewer's Name/Date:	**Reviewer's Name/Date:**
Accepted [ ] **Rejected [ ]**	**HPD Log #:**
	Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

SURVEY RESULTS:

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 0

Previously recorded archaeological sites not relocated (site update form required): 0

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0

Total isolates recorded: 0 ☑ **Non-selective isolate recording?**

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

MANAGEMENT SUMMARY:

No cultural resources were recorded or updated during the survey. Completion of the remediation will result in no effect to cultural resources which are eligible for listing to the National Register of Historic Places. The release remediation is recommended for approval. If cultural materials are encountered during the remediation process, work should be halted and archaeologists with the BLM/CFO should be notified immediately.

[ ] Continuation

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. **Field/Agency No.** **Eligible? (Y/N/U, applicable criteria)**

NMCRIS No.: 146543

Previously recorded revisited sites/HCPI properties:

LA/HCPI No. Field/Agency No. Eligible? (Y/N/U, applicable criteria)

MONITORING LA NUMBER LOG (site form required)

Sites Discovered (site form required):

LA No. Field/Agency No.

Previously recorded sites (site update form required):

LA No. Field/Agency No.

Areas outside known nearby site boundaries monitored? [ ] Yes [ ] No, Explain why:

TESTING & EXCAVATION LA NUMBER LOG (site form required)

Tested LA number(s)

Excavated LA number(s)

A Class III Archaeological Survey for the Apache Corporation
Kincaid Watson Fed 1 Oil Release Remediation, Eddy County, New Mexico

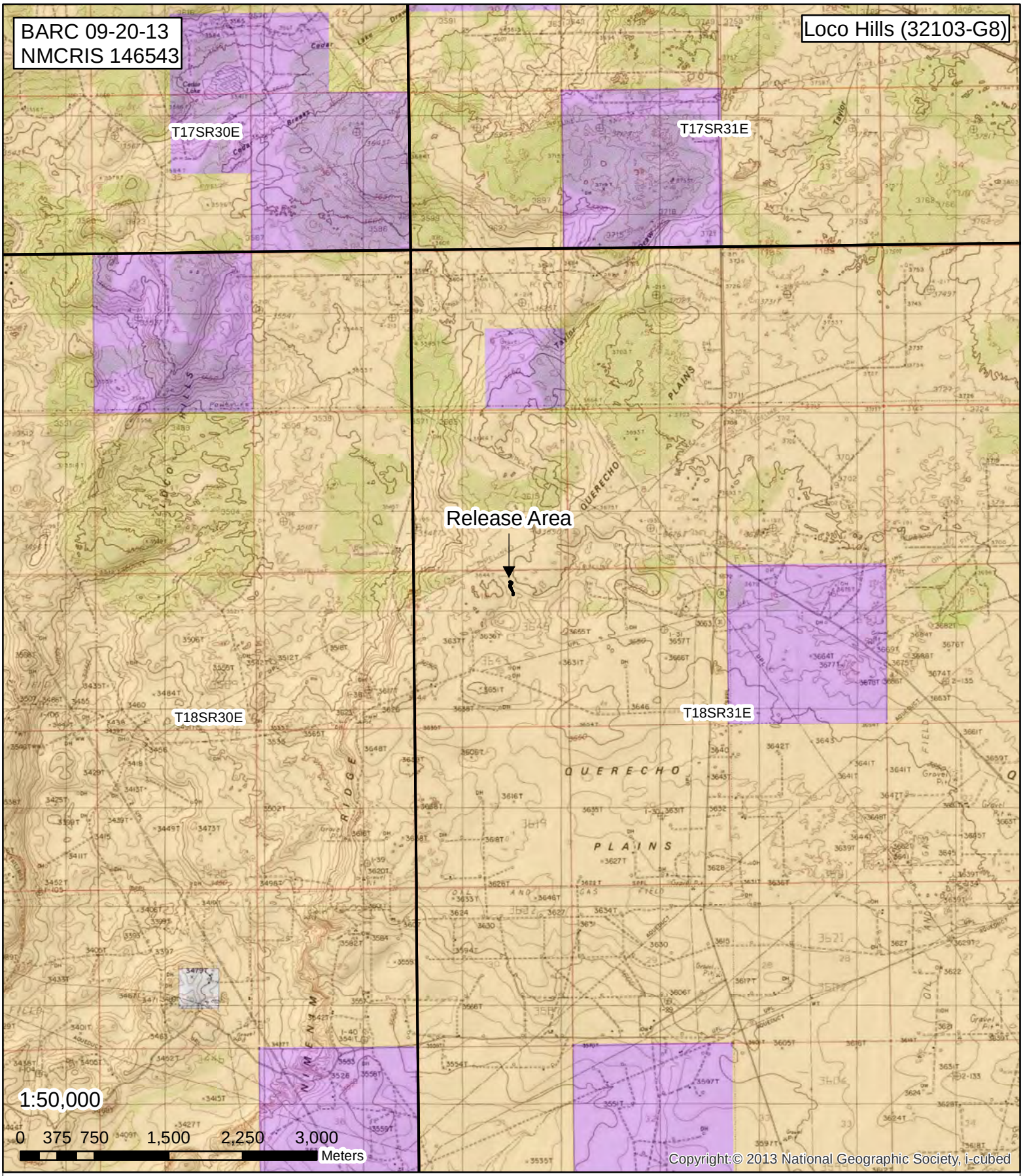


Figure 1. Release Area

Oil Release | BLM | Private | NM State | DOE

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A Class III Archaeological Survey for the Apache Corporation
Kincaid Watson Fed 1 Oil Release Remediation, Eddy County, New Mexico

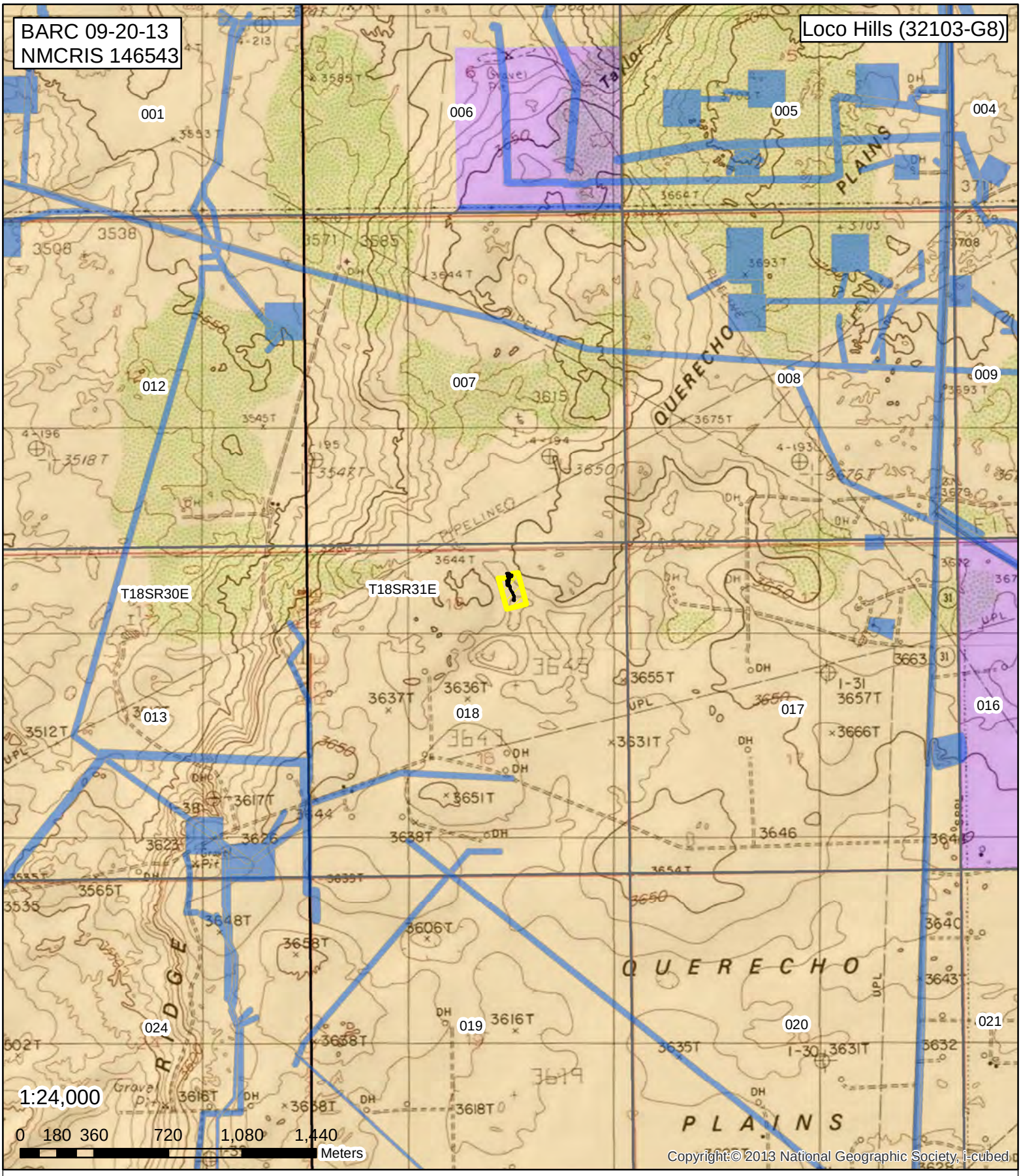

Figure 2. Current & Previous Survey Area

Oil Release | Survey Area | Previous Survey | BLM | Private | NM State | DOE

Form 8151-3

Authorization # (BLM Use)**:**

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELDWORK AUTHORIZATION REQUEST

To Conduct Specific Cultural Resource Work Under the Authority of a Cultural Resource Use Permit Issued by the Bureau of Land Management Pursuant to Sec. 302(b) of P.L. 94-579, October 21, 1976, 43 U.S.C. 1732 and Sec. 4 of P.L. 96-95, October 31, 1979, 16 U.S.C. 470cc

1. Name of Permittee and Company
Stacy K. Galassini - Boone Archaeological Resource Consultants, LLC

2. Date Permit Issued
07/26/2016

3. Contact Telephone Number
575-885-1352

4. Project Name and Client Name
BARC 920013
,
Kincaid Watson Fed 1 Spill

5. Location of Work or Legal Description (Include map)

a. Description of Public Lands Involved
T18S R31E S 18

Agency: BLM Secondary:

6. Nature of Cultural Resource Work (Survey, APE, etc.

a. Identification of Previous Surveys and Sites (if applicable)

Survey the entire spill area plus a 100ft buffer.

7. Name of Individual(s) Responsible for Planning Supervising Field Work, Approving Reports, Evaluations, Recommendations

Stacy K. Galassini

8. Signature of Individual Conducting Pre-Field Consultation

9. Date
9/10/2020

· The individual named in item 7 above shall be present during the conduct of field work authorized herein, or shall notify the authorized officer of the need for any extended absence, and shall make provision that the work will be carried out under supervision of equal quality, by an individual approved by the authorized officer.

· All terms and conditions of the permit continue to apply; any special conditions attached hereto have the same force and effect as conditions of the permit.

· Permittee shall immediately notify the authorized officer of any change in items 3 through 7 above.

Fieldwork Authorization Request approved by:

Date: 9/11/2020

Aaron Whaley

(Signature of BLM Authorized Officer)

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

CONDITIONS

Action 12828

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
APACHE CORPORATION 303 Veterans Airpark Ln #1000 Midland, TX79705	873	12828	C-141

OCD Reviewer	Condition
chensley	1. All off pad areas to contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. This may require additional sidewall samples and further delineation 2. Restoration, reclamation and re-vegetation to 19.15.29.13 NMAC
chensley	Depth to groundwater is not adequately identified. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.