

303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

January 26, 2023

Re: NEDU 706 Case nAPP2229848274

Background:

On 10/11/2022 a release occurred due to a stuffing box failed. The release (GPS: 32.4748688, -103.1523438) is located north of Eunice, New Mexico in unit letter N section 15 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well suggest groundwater beneath the release to be 35 feet.

On 1/10/2023 vertical delineation was conducted utilizing a backhoe to depths of 1 to 3 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. 5-point horizontal surface composite 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 around SP 1, SP 4, and SP 5 be excavated to a depth of 1 foot. SP 2 and SP 3 be excavated to a depth of 3 feet. SP 6 be excavated to a depth of 2 feet. 5-point bottom and wall samples will be collected not to exceed 200 square feet. All excavated material (415 yards) will be hauled to an OCD approved disposal facility. Once laboratory results are below table one standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported soil and contoured to the surrounding area. The pasture area disturbed area will be reseeded to surface landowner recommendations. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff larry.baker@apachecorp.com Cell# 432-250-8384

Received by OCD: 1/26/2023 3:41:45 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 2 of 4
Incident ID	NAPP2229848274
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?	(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
- \checkmark Data table of soil contaminant concentration data
- $\overline{\mathbf{V}}$ 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
- Z 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.

	3:41:45 PM State of New Mexico			Page 3 o
			Incident ID	NAPP2229848274
ige 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
public health or the environmen failed to adequately investigate addition, OCD acceptance of a and/or regulations.	uired to report and/or file certain release nt. The acceptance of a C-141 report by t and remediate contamination that pose a C-141 report does not relieve the operator	the OCD does not relieve th threat to groundwater, surf or of responsibility for comp	e operator of liability sho ace water, human health	ould their operations have or the environment. In deral, state, or local laws
			3	
Printed Name: Larry Bak Signature: Larry email: larry.baker@apa			3	

Received by OCD: 1/26/2023 3:41:45 PM Form C-141 State of New Mexico

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Oil Conservation Division

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Incident ID	NAPP2229848274	
District RP		
Facility ID		
Application ID		

Remediation Plan

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

 $\mathbf{\underline{\square}}$ Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 \blacksquare 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 con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr deconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local l	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech Sr. Staff
Printed Name: Larry Baker Signature: Larry Baker	Date: 1/26/2023
_{email:} larry.baker@apachecorp.com	Telephone: 432-818-1654
OCD Only	
Received by: Jocelyn Harimon	Date:01/31/2023
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Jennifer Nobui	Date: 02/15/2023

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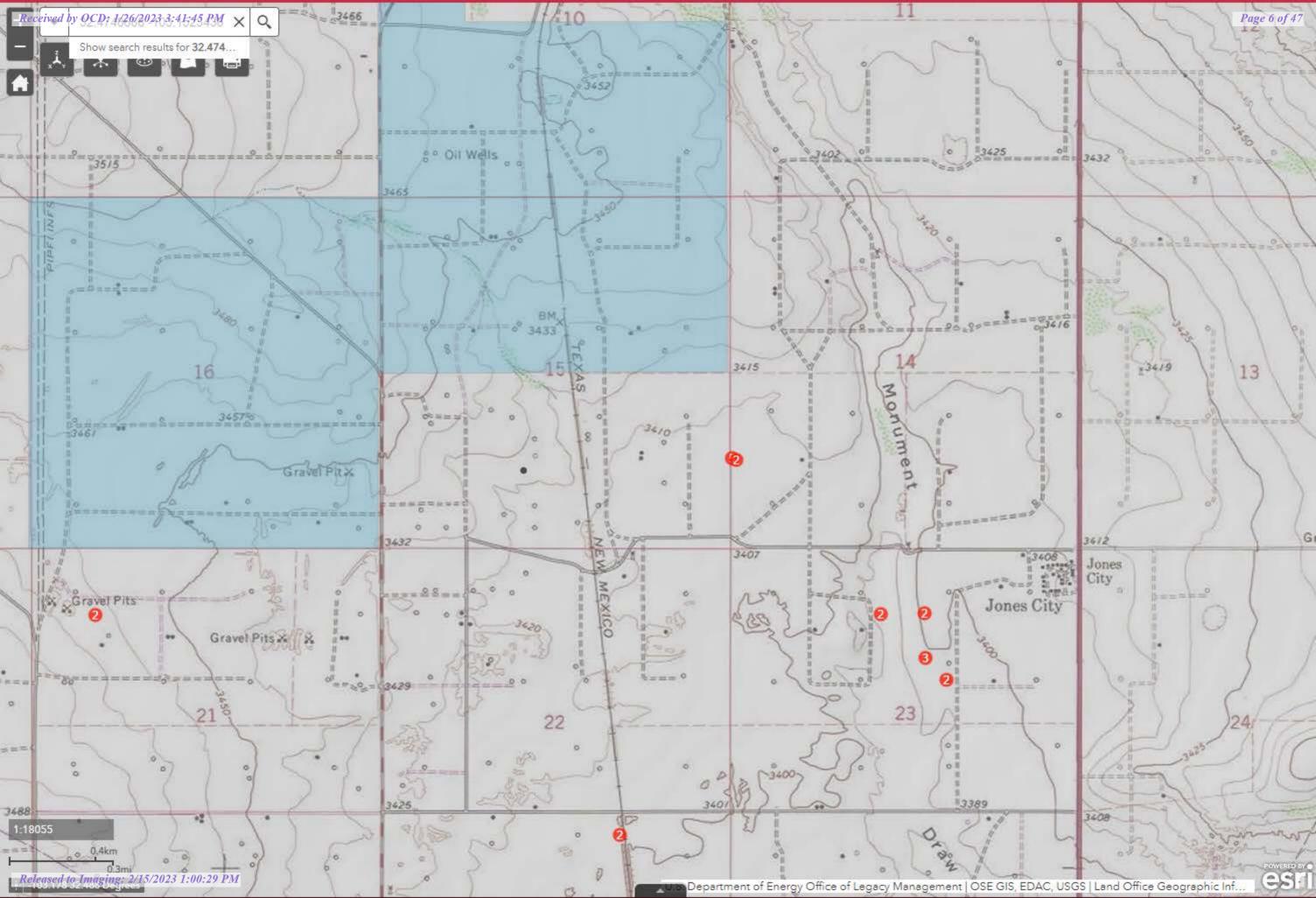
New Mexico Office of the State Engineer **Point of Diversion Summary**

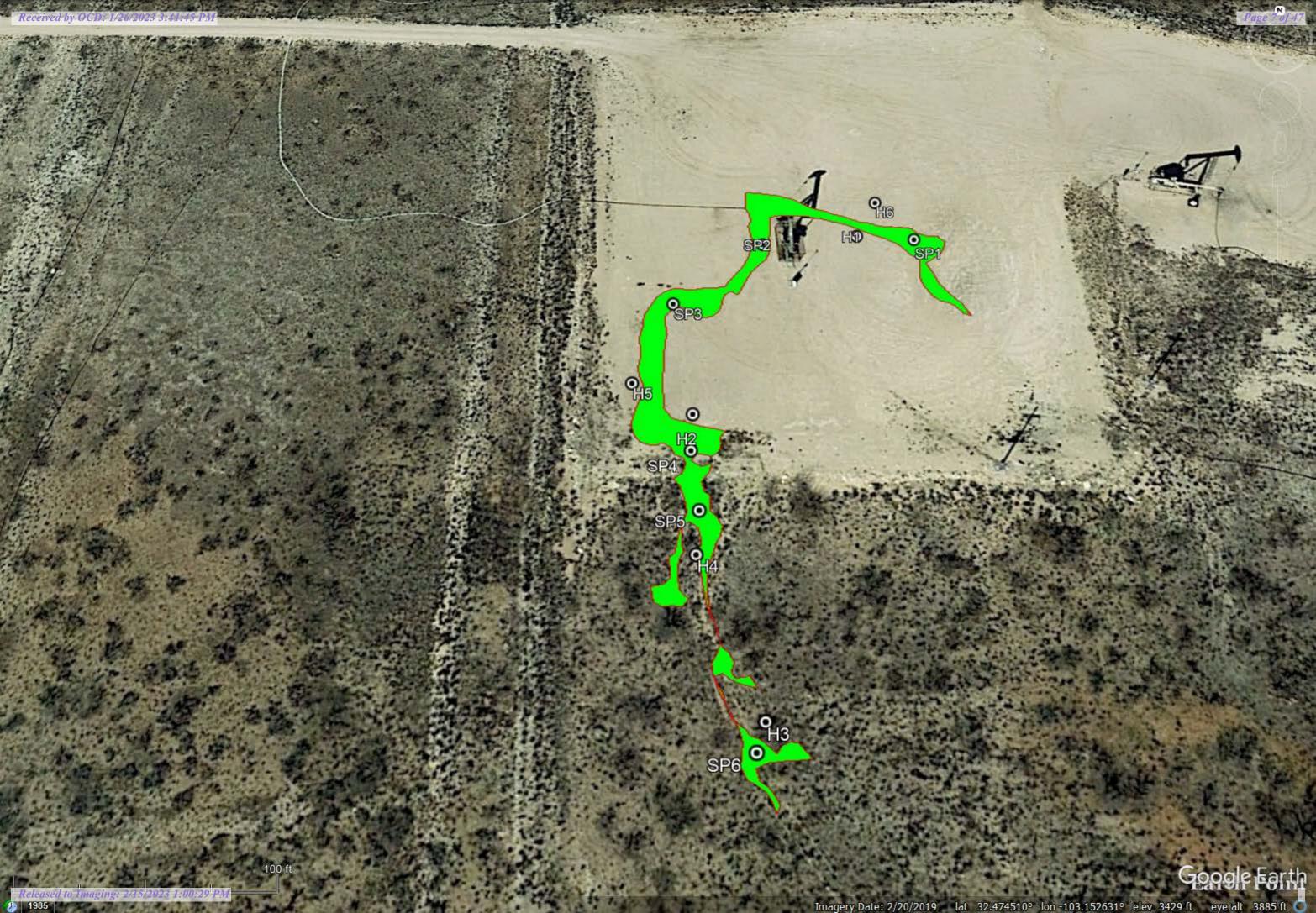
Well Tag		9 Number 01575 POD1	(quarter Q64 Q	s are 1=NW rs are small 16 Q4 S 2 1 2	est to larges	st)	(NAD83 UTI X 673544	M in meters) Y 3594204]
Driller Lico Driller Nar		1456 WHITE, JOHN W	Driller (Company	: WH	ITE DR	ILLING CO	MPANY	
Drill Start	Date:	12/15/2015	Drill Fin	ish Date:	12	2/16/201	5 Plu	g Date:	
Log File Da	ate:	12/30/2015	PCW Rc	v Date:			Sou	rce:	Shallow
Pump Type	e:		Pipe Dise	charge Si	ze:		Esti	mated Yield:	:
Casing Size	e:	2.00	Depth W	/ell:	4() feet	Dep	oth Water:	35 feet
	Wate	er Bearing Stratifica	tions:	Тор	Bottom	Descri	iption		
				23	38	Sandst	one/Gravel/C	Conglomerate	
				38	40	Shale/	Mudstone/Si	tstone	
		Casing Perform	ations:	Тор	Bottom				
				30	40				

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

1/26/23 3:13 PM

POINT OF DIVERSION SUMMARY





	Delineation Samples												
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS	
Date			Lab			ene	Xylenes	BTEX				Coordinates	
1/10/2022	CD1	Cumfran	2.440	-0.050		10.050	-0.450	-0.200	.50.0	2040	055	32.4748594,	
1/10/2023	SP1	Surface 1'	2,440	<0.050 <0.050	<0.050	<0.050	<0.150	<0.300	<50.0	2940 <10.0	855 <10.0	-103.1522059	
			1,070		<0.050	<0.050	<0.150	<0.300	<10.0				
		2'	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22 4740254	
1/10/2022	602	C	2.000	-0.050		10.050	-0.450	-0.200	.50.0	2220	F 4 4	32.4748354,	
1/10/2023	SP2	Surface	2,960	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	2320	511	-103.1524613	
		1'	2,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0		
1/11/2022		2'	1,920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	332	64.4		
1/11/2023		3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22 4747242	
1/10/2022	602	Cumfran	1500	-0.050		10.050	-0.450	-0.200	10.0	2400	0.42	32.4747313,	
1/10/2023	SP3	Surface	1500	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3190	943	-103.1525941	
		1'	1170	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0		
1/11/2022		2'	832	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.5	<10.0		
1/11/2023		3'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22 4745244	
4 /4 0 /2022	604	C (250	.0.050	.0.050	.0.050	.0.450	.0.200	12.0	2070	750	32.4745211,	
1/10/2023	SP4	Surface	256	< 0.050	< 0.050	< 0.050	<0.150	<0.300	12.8	3070	750	-103.1525827	
		1'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22.474402	
4 /4 0 /0000	CDE	c f	100		0.050	0.050	0.450		4.40	40000	2000	32.4744402,	
1/10/2023	SP5	Surface	400	< 0.050	< 0.050	< 0.050	<0.150	<0.300	140	13200	2900	-103.1525757	
		1'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.4	<10.0	22.4744676	
4 /4 0 /2 0 2 2	CDC	C (1)	422	.0.050	.0.050	.0.050	.0.450	.0.200	101	4 4 5 0 0	2000	32.4741676,	
1/10/2023	SP6	Surface 1'	432	<0.050	<0.050	<0.050	<0.150	<0.300	164	14500	3090	-103.1525418	
1/10/2022		1 2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	127	16.9		
1/19/2023		2		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	22 4740724	
1/10/2022	114	C	102	-0.050		10.050	-0.450	-0.200	-10.0	-10.0	10.0	32.4748724,	
1/10/2023	H1	Surface	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1522530	
4 /4 0 /2 0 2 2	112	C (1)	100	.0.050	.0.050	.0.050	.0.450	.0.200	.10.0		10.0	32.4745593,	
1/10/2023	H2	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1525790	
4/40/2022	H3	C	32	10.050	10.050	10.050	-0.450	.0.200	.10.0	.10.0	.10.0	32.4741486,	
1/10/2023		Surface		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1525120	
1/10/2022	H4	Surface	64	10.050	10.050	10.050	-0.450	10,200	10.0	10.0	-10.0	32.4743766,	
1/10/2023				<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1525834	

												32.4746147,
1/10/2023	H5	Surface	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1526652
												32.4748704,
1/10/2023	H6	Surface	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.1522837



January 12, 2023

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:40.

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

Celey D. Keene Lab Director/Quality Manager



NONE GIVEN

Analytical Results For:

		APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD.		
		HOBBS NM, 88240		
		Fax To: (575) 393-243	2	
Received:	01/10/2023		Sampling Date:	01/10/2023
Reported:	01/12/2023		Sampling Type:	Soil
Project Name:	NEDU #726		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker

Sample ID: H 1 (H230128-01)

Project Location:

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	<i>93.7</i>	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/12/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: H 2 (H230128-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAI	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/12/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: H 3 (H230128-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/12/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: H 4 (H230128-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/12/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: H 5 (H230128-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/12/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: H 6 (H230128-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/11/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received	by	OCD:	1/26/2023	3:41:45	PM	

Delivered By: (Circle One) Sampler - UPS - Bus - Oti	Jose Wetc	affiliates or successors arising out of or related to the perior Relinquished By:	PLEASE NOTE: Liability and Damages analyses. All claims including those for service. In no event shall Cardinal be lia	6 H4	SHS	4 H 4	SH C	2 12	100000	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location: N	Project Name:	Project #:	Phone #:	city: Mobhs	Address:	Project Manager:	Company Name: 40
Observed Temp. °C 3.5 her: Corrected Temp. °C 3.7	Time: U':40 MM	Date://////23 Receiv	and client's exclusive remedy for any claim arising rother cause whatsoever shall be deemed waived consequential damages, including wholl limited consequentiate become the Cardinal repart	C 1	C 1	C	C	<u> </u>	-	G)RAB OR # CONTAINE GROUNDW/ WASTEWAT	ERS ATER ER	Jose Quesale	EDH TAG		Project Owner:	Fax #:	State: NWA Zip: 8824		uce Baker	Horar bo
Sample Condition CHECKED BY: Turnaround Time: Cool Infract (Initials) Pres Pres Yes No No A	WARD WIND REMARKS:	11/11/	whether based in contract or tort, shall be immed to the amount paid by the rement our unless made in writing and received by Cardinal within 30 days after completion of the on, business interruptions, loss of use, or loss of profils incurred by client, its subsidiarie reas or whether such claim is based upon any of the above stated reasons or otherwise	5,34	1 3:32	1 / 3.30	/ / / 3:28			SOIL DIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	MATRIX PRESERV. SAMPLING	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO
nd Time: Standard II Bacteria (only) sample condution Rush Cool Intact Observed Temp. °C Factor -0.8°C C IVes No Corrected Temp. °C	Mail Results	Verbal Result: Verbal Result: Verbal Results are emailed. Please provide Email address:	able							CI BTE EKTT	× - PH									ANALYSIS REQUEST

Page 18 of 47



January 16, 2023

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:40.

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

Celey D. Keene Lab Director/Quality Manager



NEDU #726

NONE GIVEN

NONE GIVEN

Sampling Condition:

Sample Received By:

01/10/2023

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

	APACHE C	orp - Hobbs							
	BRUCE BA	KER							
	2350 W. M	2350 W. MARLAND BLVD.							
	HOBBS NM	HOBBS NM, 88240							
	Fax To:	(575) 393-2432	2						
01/10/2023			Sampling Date:						
01/16/2023			Sampling Type:						

Sample ID: SP 1 SURFACE (H230129-01)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	118 % 71.5-134							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	2940	50.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	855	50.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 1 @ 1' (H230129-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	114 % 71.5-134							
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 1 @ 2' (H230129-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	112 % 71.5-134							
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAI 2350 W. M HOBBS NM	ARLAND BLVD. I, 88240		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 2 SURFACE (H230129-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 % 71.5-134								
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	2320	50.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	511	50.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 2 @ 1' (H230129-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	15 % 71.5-134							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAH 2350 W. M HOBBS NM	ARLAND BLVD. I, 88240		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 2 @ 2' (H230129-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	332	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	64.4	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAI	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 3 SURFACE (H230129-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						
Surrogate: 4-Bromofluorobenzene (PID	117	% 71.5-13	4							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	01/11/2023	ND	416	104	400	3.77		
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804		
DRO >C10-C28*	3190	10.0	01/12/2023	ND	205	102	200	1.59		
EXT DRO >C28-C36	943	10.0	01/12/2023	ND						
Surrogate: 1-Chlorooctane	101	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	151	% 49.1-14	8							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 4 SURFACE (H230129-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	154	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg A		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.8	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	3070	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	750	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	21.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 5 SURFACE (H230129-09)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	187 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	140	50.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	13200	50.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	2900	50.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	306	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	Iarland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 6 SURFACE (H230129-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	228	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg Analyzed B		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	164	50.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	14500	50.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	3090	50.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	324	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 3 @ 1' (H230129-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 3 @ 2' (H230129-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	46.5	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 4 @ 1' (H230129-13)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	86.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.7	% 49.1-14	8						

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		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 5 @ 1' (H230129-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	32.4	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	90.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/10/2023			Sampling Date:	01/10/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 6 @ 1' (H230129-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	2.61	
Toluene*	<0.050	0.050	01/11/2023	ND	2.18	109	2.00	1.37	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.19	109	2.00	1.02	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	1.43	
Total BTEX	<0.300	0.300	01/11/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/11/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	127	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	16.9	10.0	01/11/2023	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.3	% 49.1-14	8						

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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
ND RPD **	Analyte NOT DETECTED at or above the reporting limit 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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

oratories

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Kock		BILL TO	ANAI YSIS	IS REDUEST
Project Manager: Bruce Bake		P.O. #:		-
Address:		Company:		
city: Hobbs	State Nu Zip: 88240	Attn:		
Phone #:		Address:		
Project #: P	Project Owner:	City:		
Project Name:		State: Zip:		
Project Location: NEDU	726	Phone #:		
Sampler Name: 5050	A	Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	11ING 24	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	CI BIEX EXTTP	
1 Spl Surface	G 1 1	- //6	5159 1 1 1	
, 1001cs 2	6 - 6	1	956 1 1 1	
3 592 02' Sp/02'	G 1 1	~	2:22 1 1 1	
4 Sp2 Sufface	G 1 1	-	1 1 1 1 1	
5 502 @ 1	9 1		10:45 () /	
(Spaga'	G / /	-	10:47 1 1 1 7 79:01	
	6 1 1	` (12:18 1 1 1 1	
8 SpySustac	6 1	1	()) 62.2)	
7 Sps Sulface	611	-	11 1 22:21	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, 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 incident or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affidiate or successors assistence are assistence.	cclusive remedy for any claim arising whether based in contract or t whatsoever shall be deemed waived unless made in writing and re al damages, including without limitation, business interruptions, loss	tort, shall be limited to the amount paid eceived by Cardinal within 30 days after or s of use, or loss of profits incurred by clie	by the client for the completion of the applicable ant, its subsidiaries,	-
Relinquished By: Date: 1/0 / Received By: /// / Verbal Res	Date: 1/10 / 7 Received By		Verbal Result: Ves INO Add'I Phone #:	#
Sie Con la TI	Time: 4.40 man AMINALO	1 Malakal	emailed. Please provi	Iress:
red By:	ceived By:	and in	REMARKS:	

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 3. Corrected Temp. °C 2.

y,

CHECKED BY:

Turnaround Time:

Standard Rush esu

2

- Mai

REMARKS: 3

Cool Intact Sample Condition

> 4 (Initials)

d

Thermometer ID #113 Correction Factor -0.6°C

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

Time:

Page 36 of 47

Company Name:

101 East Marland, Hobbs, NM 88240 C ratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO Project Manager: Bruce: Project Manager: Bruce: Project Manager: Far.#:	ad Temp. °C 7, 7 Pres (initials) Thermometer ID #113 Control of the Pres (initials) Control of
Company Name: Healty Bill Project Manager: $F_{act, cc}$ $PO, #:$ Address: Fax #: Project Covener: Address: Project Name: $Fax #:$ Project Owner: State: $\mathcal{M}_{act} Z_{bc}$ Address: Project Location: $\mathcal{N}_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: State: Zip: Project Name: $Z_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: State: Zip: Project Name: $Z_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: State: Zip: Project Name: $Z_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: State: Zip: Project Name: $Z_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: Phone #: Sampler Name: $Z_{cd} \mathcal{P}_{cd} Z_{cd}$ Phone #: Presserv Porture Own Sample I.D. Sample I.D. Rest Presserv Lab I.D. Sample I.D. Sample Group Advect Ad	
Company Name: How and finite and finite for the set of model and models with the set of model and models with the set of model and finite for the set of model a	REMARKS:
Company Name: How ac Line BILL Project Manager: B/ Line P.O. #: Address: State/JML Zip: S? V/O Atm: Phone #: Fax #: Project Owner: City: Address: Project Manne: JS S State/JML Zip: S? V/O Atm: Project Name: Soft O State: Zip: State: Zip: Project Name: JS S Soft O Project O Phone #: Phone #: Project Name: JS Soft O Soft O Phone #: Phone #: Sampler Name: JS Soft O Soft O Phone #: Phone #: Lab I.D. Sample I.D. OMP MATRIX PRESERV I.ab J.D. Sample I.D. B OR TAINERS PRESERV JJ Soft O Soft O Git O Soft O I JJ Soft O Soft O Git O Git O I I JJ Soft O Soft O Git O I I I JJ Soft O Soft O Git O I I I I JJ Soft O Soft O Git O I I I I I JJ Soft O Soft O Git I I I<	Verbal Result:
Company Name: $Marcello BILL Project Manager: B_{Lucc} B_{alcello} PO. # Address: Company: Company: Company: City: Address: Fax #: Project Owner: City: Project Name: Fax #: Project Owner: City: State: Project Location: N'EDUC 724^{C} State: Zip: State: Zip: Sampler Name: SSS Quarter MATRIX Preservice Phone #: Fax #: Project Location: N'EDUC 724^{C} Phone #: Fax #: Phone #: Fax #: Sampler Name: SS Quarter MATRIX Preservice Preservice Phone #: Lab I.D. Sample I.D. Sample I.D. G(G)(RAB OR (C)OMP. MATRIX Preservice Preservice V// SS Quarter Softwarter MATRIX Preservice Preservice Preservice V// SS Quarter Softwarter G(G)(RAB OR (C)OMNWATER OIL Softwarter I I U// SS Quarter Space 1' Quarter I I I I $	ent, its subsidia
pany Name: $Hp = Lhc$ ct Manager: $B/LLCC_Ba/Lar$ State: $P.0. #$. ess: State: $Marcellar$ State: $Project Owner$: $P.0. #$. fax #: Project Owner: Fax #: Project Owner: City:	the allocation of the second se
pany Name: Kp a. Lec Baker Project Owner: $PO. \#$ ess: Fax #: $Fax #:$ $Project Owner: City: State: City: SFPCO Attn:let Rame: Sec Qool (72) Control (1) $	2:28
pany Name: H_{Pache} $P_{O. #:}$ et Manager: B_{Acce} B_{acc} B_{acc} $P_{O. #:}$ Ause own Y Ause o	1.74
pany Name: H_{Pache} ct Manager: $B/ucc Bah$ state M Zip: BP/C Attn: ess: State M Zip: BP/C Attn: B attr: Fax #: Fax #: Fax #: Company ct Name: $NEDCA 72C$ Attn: ct Location: $NEDCA 72C$ Space Spac	2:00
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January 16, 2023

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 16:25.

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

Celey D. Keene Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	01/11/2023			Sampling Date:	01/11/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 2 @ 3' (H230162-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.00	100	2.00	1.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.17	108	2.00	2.69	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.15	107	2.00	2.59	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.56	109	6.00	2.24	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	214	107	200	3.50	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	250	125	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	98.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		APACHE COR BRUCE BAKEF 2350 W. MAR HOBBS NM, 8	R LAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/11/2023			Sampling Date:	01/11/2023
Reported:	01/16/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN				

Sample ID: SP 3 @ 3' (H230162-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.00	100	2.00	1.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.17	108	2.00	2.69	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.15	107	2.00	2.59	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.56	109	6.00	2.24	
Total BTEX	<0.300	0.300	01/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/12/2023	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	214	107	200	3.50	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	250	125	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/26/2023 3:41:45 PM

CHECKED BY: (Initials)	E: 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 applicab claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and userviewed by Cardinal within 30 days after completion of the applicab claims including those for incidental or consequence of events hearunder to Cardinal reardless of whether sub-old invations of deemate waived unless.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CIL BJEX SXTTD	END LARISE ONLY SOSE CLENCELC FAX #:	Project Location: NEDU #726 Phone #:	Project Name: Zip:	Project #: Project Owner: City:	Phone #: Fax #: Address:	city: Kabbs State: Nor Zip: 88240 Attn:	Address: Company:	iker	Company Name: Appende BILL TO	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Verbal Result: All Results are en REMARKS: \mathcal{E} \mathcal{M} 4 Turnaround Time Thermometer ID # Correction Factor			time Cl	AMPLING								2 ANALYSIS REQUEST	

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January 24, 2023

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 16:40.

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

Celey D. Keene Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	01/19/2023			Sampling Date:	01/19/2023
Reported:	01/24/2023			Sampling Type:	Soil
Project Name:	NEDU #726			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN				

Sample ID: SP 6 @ 2' (H230293-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	0.713	
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17	
Total BTEX	<0.300	0.300	01/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	% 71.5-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	21.2	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					
EXT DRO >C28-C36 Surrogate: 1-Chlorooctane		10.0	· · ·	ND					

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 1/26/2023 3:41:45 PM

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Kelinguished By:	Sofa Que	service. In no event shall Cardinal be liable for affiliates or successors arising out of or related Polinguisched By:	EASE NOTE: Liability and Damages. Cardio lyses. All claims including those for neglige			1 50 6 @2'	H230293	Lab I.D.	FOR LAB USE ONLY	Sampler Name: Jose	Project Location: NEOU	Project Name:	Project #:	Phone #:	city: Mabbs	Address:	Project Manager: Bruce	R	101 East (575) 3	Lab
Observed Temp. °C 3,1 Sample Condition CHECKED,BY: r: Corrected Temp. °C 3,2 Cool / Intact Initials r: Corrected Temp. °C 3,2 Imitials Imitials No No No No Imitials	Date: Received By: Time:	11/20	Trindental or conservenze miniscere anali ure vieninar marketu unitess intare in Nimita and received by Cardinal within 30 days if indental or conservenze experimental experimental experimental experimental profiles incurrent experimental or conservenze in the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated in the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated in the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated in the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated in the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated in the performance of services hereunder by Cardinal regardless of the services hereunder by Cardinal regardless of	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 valued unless made in writing and resoluted to Contract what has a mount paid by the client for the			\$ 1	# CON GROU	R : ASE: OOL	IP. MATRIX PRESERV.	Fax #:	72 6 Phone #:	State: Z	Project Owner: City:		Statewick Zip: 87240 Attn:	Company:	Baker P.O. #:	oue he BILL	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	oratories
BY: Turnaround Time: Standard Bacteria (only) Sample Condition Thermometer ID #113 Cool Intact Observed Temp. °C Correction Factor -0.6°C No Corrected Temp. °C	REMARKS: 2 · MG: Resalts	Verbal Result:		amount paid by the client for the			1/7 1/1 1/1 P/1	DATE TIME BT.		SAMPLING		1	Zip:						L TO ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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

Operator: 0	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	180132
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	2/15/2023

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