

October 16, 2020

Mr. Bradford Billings State of New Mexico Oil Conservation Division 1220 South St Francis Drive Santa Fe, NM 87505

RE: 1RP-2988 NEDU Satellite # 1

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring September 24, 2013. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2020 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com.

Sincerely,

Larry Baker

Environmental Technician SR.

Apache Corporation

Larry Baker

Attachment: Closure Report Dated October 16, 2020



Closure Report

October 16, 2020

Re: NEDU Satellite # 1 Case # 1RP-2988

On 9/24/2013 a release occurred due the Kimray sent fluid to the vent tank. The release (GPS: 32.505057, -103.136122) is located north of Eunice, New Mexico in unit letter S section 2 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record and data from a soil bore that Apache Corporation conducted in the area from a previous case. The soil bore is $\frac{1}{2}$ mile north of the NEDU Satellite 1 and was drilled on7/31/2019 to a depth of 60 feet. The soil bore data indicates that groundwater is greater than 50 feet.

According to lab data and the initial C-141 submitted to OCD in 2013 the release area was excavated to a depth of 6 to 8 inches. All excavated material was hauled to an OCD approved disposal facility. The excavation was backfield with clean imported topsoil.

Due to the lack of remediation documentation Apache Corporation utilizing google images from 2014 went back to the impacted area to confirm the remediation was completed in 2013. On 10/7/2020 4 sample points were advanced to a depth of 1 feet utilizing a hand auger in the release area. Samples were collected in one foot intervals and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Surface 5 point horizontal composite samples were collect not to exceed 200 square feet and were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All laboratory analysis were below table one standards for releases 51 to 100 feet to groundwater.

Apache Corporation has completed remediation and respectfully request closure of event 1RP-2988.

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

Submitted by;

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Bruce Baker

District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 811 S. First St., Artesia, NM 88210

HOBBS OCD

State of New Mexico

Energy Minerals and Natural Resources OCT 1 4 2013

Form C-141 Revised August 8, 2011

District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV

Oil Conservation Division 1220 South St. Francis Dr. Submit I Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1R-11-13-2988

1220 S. St. Frai	içis Dr., Sant	a re, NM 8/50	RECE	IVED Sa	ınta F	e, NM 875	505						
			Rele	ease Notific	eatio	n and Co	orrective A	ction					
						OPERA'	ГOR	\boxtimes	Initial Report		Final Report		
Name of Co	ompany A	pache Corpo	oration			Contact Br							
		ne Eunice, N					No. (575) 631-6	5982					
Facility Na	ne NEDU	Sat. # 1 (ne	arest wel	1 # 333)		Facility Typ	e Battery						
Surface Ow	ner State			Mineral C	wner			Al	PI No. 30-02:	-35404	4		
				LOCA	TIO	N OF RE	LEASE						
Unit Letter	Section	The state of the s					Cou	inty					
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	1		_										
			La	titude		Longitud	le						
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		Produced Wa					Release 500 BB		ume Recovered				
Source of Re	lease Vent	tank overflow	red			Date and F	lour of Occurrenc		and Hour of Dam.	iscover	y 9/24/13 at		
Was Immedia	ate Notice (If YES, To		17.00	44,774				
		\boxtimes	Yes [No Not Re	equired	Mr. Leking	3						
By Whom?							lour 9/24/13 at 8:		- WARE				
Was a Water	course Reac		Yes 🗵	No		II YES, Vo	lume Impacting t	ne Watercour	se.				
If a Watercou	ree was Im	pacted, Descri			1								
II a watercot	nse was mi	pacieu, Descri	oc runy.										
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							0	TW = 2	5'				
		em and Remed											
					vacuu	m truck was d	ispatched and pic	ked up fluid.	The site was m	apped a	nd surface		
samples were	taken to a	commercial la	boratory is	or analysis.									
Describe Are	A ffeeted o	and Classian A	otion Tol	on \$									
Describe Arc	a Affecteu a	uid Cicaiup A	CHOR TAK	CII.									
					pastur	e was affected.	The pasture was	s scraped dow	n 6 to 8 inches	and a b	ottom		
composite wa	s collected	and sent to a	commercia	il laboratory.							77-5		
											5000		
I hanabu aanti	G. that the i	n Commotion of	uan abassa	is two and same	ata ta t	he hant of my	lessessiades and w	ndoustand tha	t numerous to All	MOCD	mulas and		
							knowledge and und perform correct						
public health	or the envir	onment. The	acceptance	e of a C-141 repo	rt by th	e NMOCD ma	arked as "Final Ro	eport" does no	ot relieve the op	crator o	of liability		
							on that pose a three the operator of r						
federal, state,				ance of a C-1411	epon t	ioes not reneve	the operator of r	esponsionity	ioi compnance	with an	ly older		
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Signature:	Roses.	Be ho	1				9/014	W101.	- TOR	AAA			
Signature.	round	- 10cm			-	Approved by	Environmental Sr	Wood liet	941	4.47)		
Printed Name	: Bruce Ba	ker				Approved by	En vironimenta El	ivironmer	tal Speciali	st `	9		
Title: Environ	nmental Tec	chnician				Approval Date	: 10/15/13	Expira	tion Date: 12	11611	3		
							12						
E-mail Addres	ss: larry.ba	ker@apachec	orp.com				Approval: 50B1	MITFINAL	Attache	d 🔲			
						C-14/ 13	12/16/13		110 - 11	13-	2000		

Date: 10-7-2012

Phone: (575) 394-2743

Received by OCD: 10/16/2020	9:41:32 AM
Form C-141	State of New Mexico
Page 3	Oil Conservation Division

	Page 4 of 39
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?	51-100 (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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data	ls.
☐ 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.

Received by OCD: 10/16/2020 9:41:32 AM State of New Mexico
Page 4 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Received by OCD: 10	0/16/2020 9:41:32 AM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following in	items must be included in the closure report.
☑ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replacement human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 10/16/2020
email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: OCD	Date:10/16/2020
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	Date: 1/25/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist



Table 1
Confirmation Soil Sample Analytical Data Summary
Apache Corporation, NEDU 218
Lea County, New Mexico
32* 30' 44.10 North 103* 08' 11.80 West

Page 1 of 1

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation	Level:			10	50				100	600
BH-1	15	02/28/2019	in-Situ							678
	20	02/28/2019	In-Situ							848
	25	02/28/2019	In-Situ							1170
1	30	02/28/2019	In-Situ							1120
	31	02/28/2019	In-Situ							1250
	40	7/31/2019	In-Situ							1670
	45	7/31/2019	In-Situ							1120
	50	7/31/2019	In-Situ							1810
	55	7/31/2019	In-Situ							1350
	60	7/31/2019	In-Situ							272

Notes: analysis performed by Permian Basin Environmental Lab, Midland, Texas by EPA 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

< denotes concentration less than analytical method reporting limit

SCARBOROUGH DRILLING, INC.

TEST HOLES • WATER WELLS

P.O. Box 305 - Ph. 806-872-3285 or 872-9349

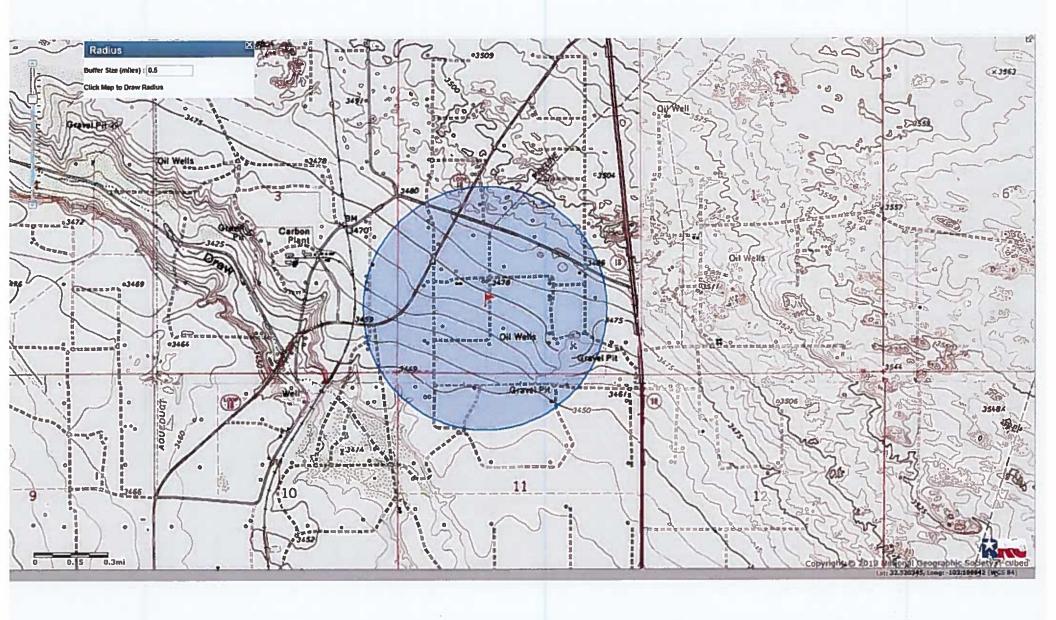
LAMESA, TEXAS 79331

2001 South Hwy. 87

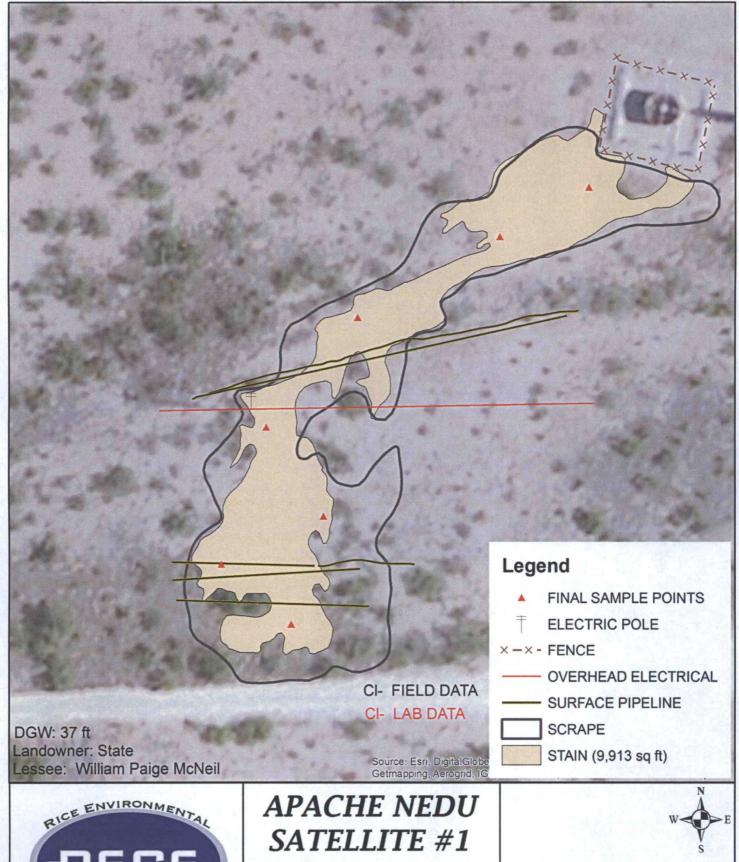
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WELL LOG

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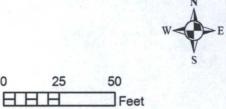


Excavation Data





LEGALS: UL/S sec. 2 T-21-S R-37-E LEA COUNTY, NM



GPS date: 10/3/13 BC Drawing date: 10/9/13 Drafted by: L. Weinheimer





2020 Samples

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date						ene	Xylenes	BTEX				Coordinates
												32.504971,
10/7/2020	SP 1	Surface	32.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.136312
		1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.504794,
10/7/2020	SP 2	Surface	<16.0	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.136581
		1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.504507,
10/7/2020	SP 3	Surface	<16.0	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.136693
		1'	16.0	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.504237,
10/7/2020	SP 4	Surface	<16.0	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.136653
		1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.50486,
10/9/2020	HC1	Surface	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.13669
												32.50450,
10/9/2020	HC2	Surface	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.13669
												32.50451,
10/9/2020	HC3	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.13648
												32.50483,
10/9/2020	HC4	Surface	<16.0	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.13648

2013 Sample

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz ene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
	Bottom @											
10/1/2013	6"	6"	<16.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	34.8	N/A	N/A



October 08, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 1

Enclosed are the results of analyses for samples received by the laboratory on 10/07/20 15:11.

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/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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/07/2020 Reported: 10/08/2020 Project Name: NEDU SATELLITE 1

Project Number: NONE GIVEN

Project Location: NONE GIVEN Sampling Date: 10/07/2020

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H002665-01)

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	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500CI-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	10/08/2020	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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	117 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	135	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

Sample ID: SP 1 @ 1' (H002665-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	118	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	138	% 42.2-15	6						

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

Celey D. Keine



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 2 @ SURFACE (H002665-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	119	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	137	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

Sample ID: SP 2 @ 1' (H002665-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	116	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: ms

Project Location: NONE GIVEN

mg/kg

Sample ID: SP 3 @ SURFACE (H002665-05)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	138	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NONE GIVEN

ma/ka

Sample ID: SP 3 @ 1' (H002665-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	111	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	128	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/07/2020 Sampling Date: 10/07/2020

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NONE GIVEN

Sample ID: SP 4 @ SURFACE (H002665-07)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	127	% 42.2-15	6						

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Celeg D. Freene



10/07/2020

Analytical Results For:

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

Received: 10/07/2020 Sampling Date:

Reported: 10/08/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NONE GIVEN

Sample ID: SP 4 @ 1' (H002665-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	5.26	
Toluene*	<0.050	0.050	10/07/2020	ND	2.01	100	2.00	3.71	
Ethylbenzene*	<0.050	0.050	10/07/2020	ND	1.95	97.5	2.00	3.56	
Total Xylenes*	<0.150	0.150	10/07/2020	ND	5.71	95.1	6.00	2.86	
Total BTEX	<0.300	0.300	10/07/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	
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	10/08/2020	ND	206	103	200	2.20	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	220	110	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					
Surrogate: 1-Chlorooctane	114 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	131	6 42.2-15	6						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Roach Canadian		BILL TO		
Project Manager: Spur Bakel		P.O. #:		ANALIGIS ARGUEST
Address:		Company:		
City: State:	Zip:	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:		City:		
Project Name: NEDU SAT. 1		State: Zip:		
Project Location: NEDU SAT. 1		Phone #:		
Sampler Name: JEFF Shoon		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	NG	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	CL BTEX EXT. TPH	CALLER
SPI O Sudace	`	10	11:00 / / /	
1 SPI @ 1.	_		11:10 V V V	
5 SPD @ Surface	. <		11:12 / / /	
4 583 00 1'	_		11:20 / 1 /	
5 SP3 @ Surface	<		11:22 V V V	
1 50% D 1"	. <		11:28 / / /	
-			11:30 1 1 1	
Q 8460 T.		in/h/20	1132 1 1 1	
those for negligence and any other final be liable for incidental or conse out of or related to the performance	ans exclusive remove or any cum arising whether based in contract or tort, shall be finited to the amount pactarse whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days aften quential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re	tort, shall be limited to the amount paid celved by Cardinal within 30 days after s of use, or loss of profits incurred by cla assed upon any of the above stated reav	I by the client for the completion of the applicable lient, its subsidiaries, sons or otherwise.	
nun	Received By:	The second lines have been dealers and	E	No Add'I Phone #:
Relinquished By: Time:	Received By:		reon son	icush all samples MEASE For
Delivered By: (Circle One) 250 14	Sample	CHECKED BY:		
Sampler - UPS - Bus - Other:	No No No	Validis		Dum.



October 12, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU SATELLITE 1

Enclosed are the results of analyses for samples received by the laboratory on 10/09/20 12:32.

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/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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/09/2020 Sampling Date: 10/09/2020

Reported: 10/12/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: HC 1 (H002694-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/09/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
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	10/09/2020	ND	416	104	400	0.00	
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	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	110 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112 9	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/09/2020 Sampling Date: 10/09/2020

Reported: Sampling Type: Soil 10/12/2020

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: HC 2 (H002694-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/09/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
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	10/09/2020	ND	416	104	400	0.00	
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	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	114 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116 %	6 42.2-15	6						

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Celey D. Keene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/09/2020 Sampling Date: 10/09/2020

Reported: 10/12/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

ma/ka

Sample ID: HC 3 (H002694-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/09/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2020	ND	416	104	400	0.00	
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	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	115	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	116	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 10/09/2020 Sampling Date: 10/09/2020

Reported: 10/12/2020 Sampling Type: Soil

Project Name: NEDU SATELLITE 1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

ma/ka

Sample ID: HC 4 (H002694-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2020	ND	2.16	108	2.00	7.60	
Toluene*	<0.050	0.050	10/09/2020	ND	2.15	108	2.00	7.16	
Ethylbenzene*	<0.050	0.050	10/09/2020	ND	2.12	106	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/09/2020	ND	6.08	101	6.00	7.87	
Total BTEX	<0.300	0.300	10/09/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2020	ND	416	104	400	0.00	
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	10/09/2020	ND	227	113	200	2.09	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	231	115	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	113	% 42.2-15	6						

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	(5/5) 353-2320 FAN (5/5) 353-24/0	10	X.			ANIAI VOIC DEO	IECT
Company Name:	Apache Copulation		BILLIO	-	-	ANALTOIS REW	מחמכות מי
Project Manager:	Bruce Ba	P.O. #:	#				
Address:		Com	Company:				
City:	State:	Zip: Attn:					
Phone #:	Fax #:	Address:	ess:				
Project #:	Project Owner:	City:					
ame:	NEDU SAT. 1	State:	e: Zip:				
Project Location:	Project Location: NEDU SAT. 1	Phone #:	ne #:				
Sampler Name:	JEFF Brun	Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NG		4	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER:	ACID/BASE: ICE / COOL OTHER:	CL-	BTEX	EXT. TPH	
HOLORA	461	# C	10/9/20	1 6450	<		
2	HCZ	<	10/4/20 0	1 4450	<		
NAMES AND ADDRESS OF THE PARTY	He3		10/8/20 0	1 9450	<		
40	Hen		10/4/20	8460	<		
PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Casefulates or successors arising affiliates or successors arising	PLEASE NOTE: Liability and Demages. Cardinal's liability and client's sociative remedy for any param arising written above in the processor in	arry claim artsarg winevier, based at bounder or why, y deemed waked unless made in wifting and receiving without limitation, business interruptions, loss of u Cardinal, regardless of whether such claim is based	ed by Cardinal within 30 days after ourse, or loss of profils incurred by clied upon any of the above stated reass	fter completion of the application, its subsidiaries, reasons or otherwise.	able		
Relinquished By:	y: Date: 10/9/%	Received By:	2	Verbal Result: All Results are e	☐ Yes emailed. F	Verbal Result:	
Relinquished By		Received By:		REMARKS:			
Delivered By: (Circle One)		SS	s)	Turnaround Time:		PO	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C □ Yes □ Yes
Sampler - UPS - Bus - Other:	Bus - Other: Corrected Temp. °C	No No	10	Correction Factor +0:48	+0:4-6	6 /0/9/20 No No	Corrected Temp. °C



October 02, 2013

Allen Hodge

Phoenix Environmental, LLC

P.O. Box 1856

Hobbs, NM 88240

RE: NEDU SAT #1

Enclosed are the results of analyses for samples received by the laboratory on 10/01/13 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Phoenix Environmental, LLC Allen Hodge P.O. Box 1856 Hobbs NM, 88240

Fax To: (575) 391-9687

Received: 10/01/2013 Reported: 10/02/2013

Project Name: NEDU SAT #1
Project Number: NONE GIVEN
Project Location: EUNICE, NM

Sampling Date: 10/01/2013

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BOTTOM @ 6" (H302374-01)

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	10/01/2013	ND	1.99	99.3	2.00	0.254	
Toluene*	<0.050	0.050	10/01/2013	ND	2.02	101	2.00	0.364	
Ethylbenzene*	<0.050	0.050	10/01/2013	ND	2.04	102	2.00	0.293	
Total Xylenes*	<0.150	0.150	10/01/2013	ND	6.27	105	6.00	0.651	
Total BTEX	<0.300	0.300	10/01/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/02/2013	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	10/01/2013	ND	186	93.2	200	4.28	
DRO >C10-C28	34.8	10.0	10/01/2013	ND	185	92.5	200	0.113	
Surrogate: 1-Chlorooctane	98.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	63.6-15	4						

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Celey 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

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Celey D. Keine

Relinquished By

Time 7, 55 Date: Time:

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Phospit Zwithownswith	r 640			ANALYSIS REQUEST	
Project Manager: Allen / Long c		P.O. #:			
Address: POBOX 1856		Company: APACKE			
City: 16665 State: UM Zip: 8824	Zip: 중징入나	Attn: BRUCE BAKER			-
Phone #: 575-391-9685 Fax #: 391-9687	1687	Address:			
Project #: Project Owner: みみんしと	Apachr	City: シッルバイー			
Project Name: 1200 SAT 41		State: んんZip:			
Project Location: 乏いんくと んんへ	-	Phone #:			
Sampler Name: Allen Hed 92		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
	RS TER ER		*		
Lab I.D. Sample I.D.		/BASE:	P1		
H3033H	# CO GRO		7		
1 Botton @ 6"	×	1 101-13 9:00	メメ		
		Amendment of the state of the s			
	-	-			
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anayses, ni vaenus income the properties of the	thout limitation, business interruptions;	loss of use, or loss of profits incurred by client, its subs	idaries		

Phone Result: Fax Result: REMARKS: Bruce Also SEND COPY TO ALLENOUS □ □ No

Page 4 of 4



District I
1625 N. French Dr., Hobbs, NM 88240
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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

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 10701

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	10701
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	1/25/2023