

NEDU 218 Excavation Sample Diagram

PRELIMINARY RESULTS

North Wall 2 (784 CI-)



26'

27'

800

527

740

NEDU 218 Remediation Proposal









February 12, 2018

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

RE: NEDU #218

Enclosed are the results of analyses for samples received by the laboratory on 02/07/18 17:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.tceg.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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	02/07/2018		Sampling Date:	02/07/2018
Reported:	02/12/2018		Sampling Type:	Soil
Project Name:	NEDU #218		Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	-	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN			

Sample ID: VERTICAL 1 @ 11' (H800402-01)

mg;	/kg	Analyze	Analyzed By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/09/2018	ND	1.75	87.4	2.00	23.7	
<0.050	0.050	02/09/2018	ND	1.77	88.5	2.00	22.3	
<0.050	0.050	02/09/2018	ND	1.76	87.9	2.00	23.4	
<0.150	0.150	02/09/2018	ND	5.25	87.5	6.00	22.5	
<0.300	0.300	02/09/2018	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 113 % 72-148

Chloride, SM4500CI-B Analyte	mg/kg		Analyze	d By: AC					
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/09/2018	ND	416	104	400	3.77	
TPH 8015M	mg/l	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2018	ND	161	80.6	200	12.9	
DRO >C10-C28*	<10.0	10.0	02/11/2018	ND	183	91.3	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	02/11/2018	ND					
Surrogate: 1-Chlorooctane	102 %	6 41-142	?						
Surrogate: I-Chlorooctadecane	99.2 9	6 37.6-14	7						

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Cellery D. Kanne



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Analytical Results For:

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

Received:	02/07/2018	Sampling Date:	02/07/2018
Reported:	02/12/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: VERTICAL 1 @ 13' (H800402-02)

BTEX 8021B Analyzed By: MS mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 02/09/2018 ND 1.75 87.4 2.00 23.7 < 0.050 Toluene* 0.050 02/09/2018 1.77 88.5 ND 2.00 22.3 Ethylbenzene* < 0.050 0.050 02/09/2018 ND 87.9 1.76 2.00 23.4 Total Xylenes* <0.150 0.150 02/09/2018 ND 5.25 87.5 6.00 22.5 Total BTEX 02/09/2018 < 0.300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PIL 114 % 72-148

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	02/09/2018	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	ßS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2018	ND	161	80.6	200	12.9	
DRO >C10-C28*	<10.0	10.0	02/12/2018	ND	183	91.3	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	02/12/2018	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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Analytical Results For:

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

Received:	02/07/2018	Sampling Date:	02/07/2018
Reported:	02/12/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: VERTICAL 1 @ 15' (H800402-03)

BTEX 8021B mg/kg Analyzed By: MS Analyte Result **Reporting Limit** Analyzed Method Blank **8**5 % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 02/09/2018 ND 1.75 87.4 2.00 23.7 Toluene* <0,050 0,050 02/09/2018 ND 1.77 88.5 2.00 22.3 Ethylbenzene* <0.050 0.050 02/09/2018 ND 1.76 87.9 23.4 2.00 Total Xylenes* <0.150 0.150 02/09/2018 ND 5.25 87.5 6.00 22.5 Total BTEX 02/09/2018 <0,300 0.300 ND

Surrogate: 4-Bromofluorobenzene (PIL 115 % 72-148

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	02/09/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2018	ND	161	80.6	200	12.9	
DRO >C10-C28*	<10.0	10.0	02/12/2018	ND	183	91.3	200	18.5	
EXT DRO >C28-C36	<10.0	10.0	02/12/2018	ND					
Surrogate: 1-Chlorooctane	84.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.7	% 37.6-14	7						

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Analytical Results For:

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

Received:	02/07/2018	Sampling Date:	02/07/2018
Reported:	02/12/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: VERTICAL 1 @ 17' (H800402-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/09/2018	ND	432	108	400	0.00	

Sample ID: VERTICAL 1 @ 19' (H800402-05)

Chloride, SM4500CI-B mg/l		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	02/09/2018	ND	432	108	400	0.00	

Sample ID: VERTICAL 1 @ 21' (H800402-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	02/09/2018	ND	432	108	400	0.00	

Sample ID: VERTICAL 1 @ 23' (H800402-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	02/09/2018	ND	432	108	400	0.00	

Sample ID: VERTICAL 1 @ 25' (H800402-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/09/2018	ND	432	108	400	0.00	

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Analytical Results For:

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

Received:	02/07/2018	Sampling Date:	02/07/2018
Reported:	02/12/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: VERTICAL 1 @ 27' (H800402-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/09/2018	ND	432	108	400	0.00	

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Celleg D Keine



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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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.
in.	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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Cellerg D. Keene

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240



iluri roomaa aaaana wahal ahannaa Dlasea fav writtan channae ta (576) 909-3936

" Brite Flat

X

Cool Intact

(Initiatia)

Sampler - UPS - Bus - Other:



February 28, 2018

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

RE: NEDU #218

Enclosed are the results of analyses for samples received by the laboratory on 02/27/18 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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.

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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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:		02/27/2018	Sampling Date:	02/27/2018
Reported:		02/28/2018	Sampling Type:	Soil
Project Name:	1	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:		NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:		NONE GIVEN		

Sample ID: NORTH WALL 3 (H800576-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MŞ	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	6 S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2018	ND	2.20	110	2.00	2.87	
Toluene*	<0.050	0.050	02/27/2018	ND	2.19	109	2.00	1.92	
Ethylbenzene*	<0.050	0.050	02/27/2018	ND	2.14	107	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/27/2018	ND	6.56	109	6.00	2.95	
Total BTEX	<0.300	0.300	02/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 72-148

Chloride, SM4500CI-B	mg,	/kg	- Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/28/2018	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2018	ND	219	109	200	2.10	
DRO >C10-C28*	<10.0	10.0	02/28/2018	ND	206	103	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	02/28/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/27/2018	Sampling Date:	02/27/2018
Reported:	02/28/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 2 (H800576-02)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	02/27/2018	ND	2.20	110	2.00	2.87	
Toluene*	<0.050	0.050	02/27/2018	ND	2.19	109	2.00	1.92	
Ethylbenzene*	<0,050	0.050	02/27/2018	ND	2.14	107	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/27/2018	ND	6.56	109	6.00	2.95	
Total BTEX	<0.300	0.300	02/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 72-148

Chloride, SM4500CI-8	mg/i	kg	Analyze	d By: AC					100
Analyte	Result	Reporting L ^I mit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/28/2018	ND	448	112	400	3.64	
трн 8015м	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8Ś	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2018	ND	219	109	200	2.10	
DRO >C10-C28*	<10.0	10.0	02/28/2018	ND	206	103	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	02/28/2018	ND					
Surrogate: 1-Chlorooctane	9459	6 41-142							
Surrogate: 1-Chlorooctadecane	8719	6 37.6-14	7						

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Celleg D. Kenne

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/27/2018	Sampling Date:	02/27/2018
Reported:	02/28/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SOUTH WALL 3 (H800576-03)

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	02/27/2018	ND	2.20	110	2.00	2.87	
Toluene*	<0.050	0.050	02/27/2018	ND	2.19	109	2.00	1.92	
Ethylbenzene*	<0.050	0.050	02/27/2018	ND	2,14	107	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/27/2018	ND	6.56	109	6.00	2.95	
Total BTEX	<0.300	0.300	02/27/2018	ND					

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Surrogate: 4-Bromofluorobenzene (PIL 106 % 72-148

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/28/2018	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2018	ND	219	109	200	2.10	
DRO >C10-C28*	<10.0	10.0	02/28/2018	ND	206	103	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	02/28/2018	ND					
Surrogate: 1-Chlorooctane	105 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	96.8 9	37.6-14	7						

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Celleg D Kerne



Analytical Results For:

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

Received:	02/27/2018	Sampling Date:	02/27/2018
Reported:	02/28/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EAST WALL (H800576-04)

BTEX 8021B	mg;	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2018	ND	2.20	110	2.00	2.87	
Toluene*	<0.050	0.050	02/27/2018	ND	2.19	109	2.00	1.92	
Ethylbenzene*	<0.050	0.050	02/27/2018	ND	2.14	107	2.00	2.27	
Total Xylenes*	<0.150	0.150	02/27/2018	ND	6.56	109	6.00	2.95	
Total BTEX	<0.300	0.300	02/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 72-148

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	02/28/2018	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/28/2018	ND	219	109	200	2.10	
DRO >C10-C28*	<10.0	10.0	02/28/2018	ND	206	103	200	1.61	
EXT DRO >C28-C36	<10.0	10.0	02/28/2018	ND					
Surrogate: 1-Chlorooctane	103 9	6 41-142	!						
Surrogate: 1-Chlorooctadecane	95.5 9	6 37.6-14	7						

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Celeg D. Keine



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Notes and Definitions

	ND	Analyte NOT DETECTED at or above the reporting limit
I	2PD	Relative Percent Difference
,	k XK	Samples not received at proper temperature of 6°C or below.
,	***	Insufficient time to reach temperature.
		Chloride by SM4500CI-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. Kenne-

Cardinal 1///1 5.4

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: パリ みこんぞ (こっつっつ チーチござい)	000	0 F# B/(8 F	ANA	ANALYSIS REQUEST	[
Project Manager: Bruce BAKer		P.O. #		•	
Address:		Company:	<u>}</u>		
Hobbs State: With	ZID: 88240	Attn:	<u> </u>		
Phone #: 432-63~69ダス Fax #:		Address:	1		
		City:	1		
ame: NEDU 2		State: Zip:	49		
ол:		Phone #:	77		
Sampler Name: Bruce BAKEr		Fax #:	· · · · ·		
	MATRIX	PRESERV. SAMPLING	ed		
	rs Ter				
Lab I.D. Sample I.D.	AB OR (NTAINE UNDWA TEWATI	/BASE: COOL	<u>cı</u> - Exte 87 <i>E</i>		
14800576	# CO GRO	<u> </u>	-7		
1 North WALL 3	© /	V 2-27-18 12:00 pm			
2 North W#11 2	6	5 2-27-18 12:10 pm	5		
3 South WA 11 3 B	-	V 2-27-18 12:200m			
East Wall		~ 2-27-19 12-stym	2 7 7 7		
ê D S	chaim artsing whether based in contract, smed walved unless made in writing and ithout Emilation, business interruptions, i	or tort, shall be strated to the stratust, pand by the cash. Incodered by Candinal within 30 days after completion p to so if use, or loss of profits incurred by clean, it subst	sf the applicable Silanies,		
Relinquished By:	Received/By:	Date: 27-18 Received/By:	III: I Yes I No	Add'l Phone #: Add'l Fax #:	
Bruce Baker Time: 000m	Launsa	AND REMARKS:	Enall Port	4	••
Date:	Received By:	. <			checo.p.c.
Delivered By: (Circle One) / 70	Sample Condition	ă CH	Lush		
	NIC + /// Cool Intact				

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories



New Mexico Office of the State Engineer Water Column/Average Depth to Water

CLW##### in the OD suffix indicates e POD has been	(R=POD been rep	laced,													
placed & no longer	O=orpha			,						0.004.0					
erves a water right	C=the fil closed)	e is							lest to la	3=SW 4=S	IAD83 UTM in m	etere)	(1	1 feet)	
	ciusedy	POD Sub-		``	Q		is are	5 511101	10010	ilgest) (N				lepth Wa	tor
OD Number	Code		County				Sec	Tws	Rng	х	Y	Distance		VaterColu	
3546 POD1		L	LEÍ	4	4	3	34	20S	38E	675011	3600037 🌑	1314	88		
00197	о	СР	LE	1	4	1	01	21S	37E	676611	3598599' 🎱	1585	85		
00197 POD1		CP	LE	1	4	1	01	21S	37E	676611	3598599 <mark>*</mark> 🌑	1585	85		
00286 POD1		СР	LE	2	1	2	10	21S	37E	674019	3597338* 🕒	1714	70		
00552		СР	LE		2	4	04	21S	37E	672700	3598022* 🍪	2433	90	75	15
00553		СР	LE		2	4	04	215	37E	672700	3598022* 🚳	2433	90	75	15
											Avera	ge Depth to	Water:	75 feet	
												Minimum	Depth:	75 feet	
												Maximum	Depth:	75 feet	
cord Count: 6															
UTMNAD83 Radiu	is Search (in	meters)	<u>:</u>												
Easting (X): 67	5030		North	ning) (Y):	3598	723			Radius: 3000				
TM location was derive	ed from PLSS	- see Helj	p												
e data is furnished by the plied, concerning the acc												ISC make no	warrantie	es, expresse	ed or
5/18 3:14 PM	· ·		-							• •		WATER (DEPTH 1		V AVERAC	βE

NEDU 218 Photos



Photo Facing South West



Photo Facing North West



Photo Facing North



Photo Facing West





March 08, 2018

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

RE: NEDU #218

Enclosed are the results of analyses for samples received by the laboratory on 03/07/18 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	03/07/2018	Sampling Date:	03/07/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 1 @ 3' (H800676-01)

BTEX 80218	mg/k	g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2018	ND	2.16	108	2.00	3.51	
Toluene*	<0.050	0.050	03/07/2018	0.050	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/07/2018	ND	2.09	105	2.00	2.74	
Total Xylenes*	<0.150	0.150	03/07/2018	ND	6.34	106	6.00	3.04	
Total BTEX	<0.300	0.300	03/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.9 %	6 72-148							
Chloride, SM4500CI-B	mg/l	g	Analyze	d By: AC					

Analyzed 03/07/2018	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
03/07/2018					NF D	Qualifier
	ND	480	120	400	0.00	
Analyze	d By: MS					
Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
03/07/2018	ND	205	102	200	1.57	
03/07/2018 ND		195 97.4		200	4.55	
03/07/2018	ND					
,						
	03/07/2018 03/07/2018	03/07/2018 ND 03/07/2018 ND 03/07/2018 ND	03/07/2018 ND 205 03/07/2018 ND 195 03/07/2018 ND	03/07/2018 ND 205 102 03/07/2018 ND 195 97.4 03/07/2018 ND	03/07/2018 ND 205 102 200 03/07/2018 ND 195 97.4 200 03/07/2018 ND	03/07/2018 ND 205 102 200 1.57 03/07/2018 ND 195 97.4 200 4.55 03/07/2018 ND

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/07/2018	Sampling Date:	03/07/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 4 @ 3' (H800676-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2018	ND	2.16	108	2.00	3.51	
Toluene*	<0.050	0.050	03/07/2018	0.050	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/07/2018	ND	2.09	105	2.00	2.74	
Total Xylenes*	<0.150	0.150	03/07/2018	ND ND	6.34	106	6.00	3.04	
Total BTEX	<0.300	0.300	03/07/2018						
Surrogate: 4-Bromofluorobenzene (PIE	92.4 % 72-148 mg/kg								
Chloride, SM4500CI-B			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2018	ND	480	120	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2018	ND	205	102	200	1.57	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	195	97.4	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
Surrogate: 1-Chlorooctane	81.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	69.7	% 37.6-14	7						

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

Received:	03/07/2018	Sampling Date:	03/07/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 5 @ 3' (H800676-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	zed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2018	ND	2.16	108	2.00	3.51	
Toluene*	<0.050	0.050	03/07/2018	0.050	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/07/2018	ND	2.09	105	2.00	2.74	
Total Xylenes*	<0.150	0.150	03/07/2018	ND	6.34	106	6.00	3.04	
Total BTEX	<0.300	0.300	03/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	92.0	% 72-148	}						
Chloride, SM4500CI-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	03/07/2018	ND	480	120	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	03/07/2018	ND	205	102	200	1.57	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	195	97.4	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
Surrogate: 1-Chlorooctane	86.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	70.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/07/2018	Sampling Date:	03/07/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	NEDU #218	Sampling Condition:	Cool & Intact
Project Number:	NEDU #218	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH WALL 6 @ 5' (H800676-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2018	ND	2.16	108	2.00	3.51	
Toluene*	<0.050	0.050	03/08/2018	0.050	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/08/2018	ND	2.09	105	2.00	2.74	
Total Xylenes*	<0,150	0.150	03/08/2018	ND	6.34	106	6.00	3.04	
Total BTEX	<0.300	0.300	03/08/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.0	% 72-148	1						
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	03/07/2018	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2018	ND	205	102	200	1.57	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	195	97.4	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	69.0	% 37.6-14	7						

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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 SM4500CI-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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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

+ Cantinal canno	Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Relinquished By: Bance e Rate	PLEASE NOTE: Linksky and Demages, analyses, All claims, including these for service, in no overt shall Cardinal be for			NE		4800676	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	city: Nobbs	Address:	Project Manager:	Company Name:
+ Cardinal cannot accent uphal channes Diasea fav unition channes to (575) 202.3396	STOR Sample Con Inter	Jake: Roceived By:	a community	Continuit's lability and class's anchasive remarks for any claim artaing shadow base suggences and any other cause whatbeaver shad be deemed waived unless made bits for moderaid or consequential damages, including willowd invadion, hummer s		1 NAII 60 5' G 1	Wall 483	6	CON GROU WASTE SOIL	Sor (C)OM TAINERS NOWATER		Ence Baker		NEOU 218	Project Owner:	Fox #:	State: NA ZID: 888.40		Bruce Baker	Apache Corporation
15751 202_3326	CHECKED BY: (Initials) TC-H75		In a long spin or the sense stated whereas the sense of t	nd in contract or lost, "shall be limited to the amount puid by the chard for the in writing and received by Cardinal within 30 days allow completion of the spot semiptions, bea of see, or bea of profile incurved by cleant, its subschemes.		1 3-7-18 2:20 V	1 3-7-18 2:40m /	- 3-7-18 =		ASE OOL	PRESERV. SAMPLING	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO
	ANS M	erry. Baker @ apache corp. com	□ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:	icadda					E	TEX	/e.d									ANALYSIS REQUEST

Page 7 of 7

NEDU 218 Updated Photos 3-8-2018

