

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Larry Bruce Baker
Address PO Box 1849, Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name NEDU Satellite #2	Facility Type Satellite

Surface Owner State	Mineral Owner	API No. 3002506461
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	10	21S	37E	1650	FNL	1126	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Oil	Volume of Release 220 bbls	Volume Recovered 180 bbls
Source of Release Tank overflowed	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5/9/13 5:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* The tank overflowed because the automation was down so the transfer pump did not operate. A total of 220 bbls of oil was released and a total of 180 bbls was recovered. The tanks were equalized when switched to the other transfer pump. DTW = 44'

Describe Area Affected and Cleanup Action Taken.\* A total of 5,050 sq ft of area inside the bermed facility was affected. An initial C-141 was sent to NMOCD on September 6<sup>th</sup>, 2013 detailing the release. RECS personnel were on site beginning on May 10<sup>th</sup>, 2013 to assess the release. Surface samples were taken throughout the release and field tested for chlorides and hydrocarbons. The samples were then taken to a commercial laboratory for analysis and returned results of elevated chlorides, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). The facility tanks were washed down and the site was excavated using a hydrovac followed by hand digging to 6 inches bgs. A total of 122 yards of excavated soil was taken to a NMOCD approved facility for disposal. A vertical was installed on August 21<sup>st</sup>, 2013 and was advanced to 10.5 feet. As the vertical was advanced, samples were taken every half foot and field tested for chlorides and hydrocarbons. Representative samples from the vertical were taken to a commercial laboratory for analysis. Based on the vertical data, on September 6<sup>th</sup>, 2013, NMOCD verbally approved the excavated area be backfilled with 1 inch of bentonite chips, which would be tamped and watered down. The bentonite would provide an infiltration barrier for the site that would inhibit the downward migration of constituents to groundwater. The bentonite would then be covered with 3 inches of clean, imported caliche. RECS began these actions on September 25<sup>th</sup>, 2013. A total of 9 pallets of bentonite were used to cover the release area to a depth of 1 inch. The bentonite was tamped down and watered. A 3 inch layer of clean, imported caliche was then spread over the bentonite.

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

Signature: <i>Larry Bruce Baker</i>	<b>OIL CONSERVATION DIVISION</b> <i>Larry Bruce Baker</i>	
Printed Name: Larry Bruce Baker	Approved by Environmental Specialist <b>Environmental Specialist</b>	
Title: Environmental Tech	Approval Date: 2/12/14	Expiration Date: —
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: —	Attached <input type="checkbox"/> IRP-9-13-2949
Date: 10-8-13 Phone: (432) 631-6982		

\* Attach Additional Sheets If Necessary

JUN 10 2014

NSAD1416 138414

R



EXPLORING WHAT'S POSSIBLE

# APACHE CORPORATION

P.O.Box 1849  
Eunice, NM 88231  
Phone 575.394.3159

NEDU Satellite #2  
1RP-9-13-2949

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## Termination Request

*approved*  
*Stephrey Perkins*  
Environmental Specialist  
NMOCD - DIST 1  
2/12/14

API No. 3002506461

Release Discovered On: May 9<sup>th</sup>, 2013

Unit Letter E, Section 10, Township 21S, Range 37E

# Rice Environmental Consulting & Safety

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P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

**October 2<sup>nd</sup>, 2013**

## **Geoffrey Leking**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 1  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: Termination Request  
Apache Corporation – NEDU Satellite #2 (IRP-9-13-2949)  
UL/E sec. 10 T21S R37E  
API No. 3002506461**

Mr. Leking:

Apache Corporation (Apache) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

## **Background and Previous Work**

The site is located approximately 3.5 miles north of Eunice, New Mexico at UL/E sec. 10 T21S R37E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 44 +/- feet.

On May 9<sup>th</sup>, 2013, Apache discovered that a tank overflowed at the Satellite #2 because the automation was down so the transfer pump did not operate. A total of 220 barrels of oil was released at the site and a total of 180 barrels was recovered. The tanks were equalized when switched to another transfer pump. A total of 5,050 sq ft of the bermed facility was affected. An initial C-141 was sent to NMOCD on September 6<sup>th</sup>, 2013 detailing the release (Appendix A).

RECS personnel were on site beginning on May 10<sup>th</sup>, 2013 to assess the release. Surface samples were taken throughout the release and field tested for chlorides and hydrocarbons (Figure 1). The samples were then taken to a commercial laboratory for analysis and returned results of elevated chlorides, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) (Appendix B).

The facility tanks were washed down and the site was excavated using a hydrovac followed by hand digging to 6 inches bgs (Figure 2). A total of 122 yards of excavated soil was taken to a NMOCD approved facility for disposal. A vertical was installed on August 21<sup>st</sup>, 2013 and was advanced to 10.5 feet. As the vertical was advanced, samples were taken every half foot and field tested for chlorides and hydrocarbons. Representative samples from the vertical were taken to a commercial laboratory for analysis (Appendix C).

Based on the vertical data, on September 6<sup>th</sup>, 2013, NMOCD verbally approved the excavated area be backfilled with 1 inch of bentonite chips, which would be tamped and watered down. The bentonite would provide an infiltration barrier for the site that would inhibit the downward migration of constituents to groundwater. The bentonite would then be covered with 3 inches of clean, imported caliche.

RECS began these actions on September 25<sup>th</sup>, 2013. A total of 9 pallets of bentonite were used to cover the release area to a depth of 1 inch. The bentonite was tamped down and watered. A 3 inch layer of clean, imported caliche was then spread over the bentonite.

Photo Documentation of these activities can be found in Appendix D.

Six inches of impacted soils were removed from the site. The site was backfilled with 1 inch of bentonite chips and 3 inches of caliche as approved by NMOCD. Therefore, Apache submits the final C-141 and respectfully request the closure of the regulatory file for this site (Appendix E).

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

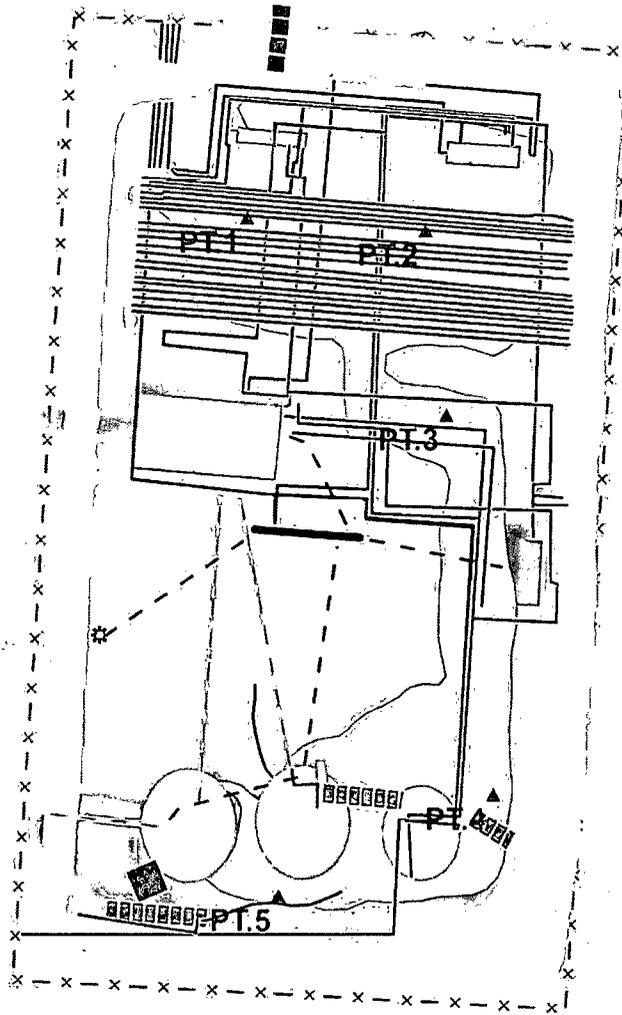
- Figure 1 – Initial Sampling Map
- Figure 2 – Vertical Map
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Vertical Sampling Lab
- Appendix D – Photo Documentation
- Appendix E – Final C-141

# Figures

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

# Initial Sampling Map

	CI-	PID	Lab CI-	GRO	DRO
<b>PT.1</b>					
<b>SURFACE</b>	<b>358</b>	<b>800.8</b>	<b>1010</b>	<b>11300</b>	<b>41900</b>
<b>PT.2</b>					
<b>SURFACE</b>	<b>1904</b>	<b>2420</b>	<b>2040</b>	<b>11000</b>	<b>24500</b>
<b>PT.3</b>					
<b>SURFACE</b>	<b>852</b>	<b>3030</b>	<b>1520</b>	<b>13600</b>	<b>44400</b>



## Legend

- GAUGE BOX
- LIGHT POLE
- SAMPLE POINT
- BURIED ELECTRICAL LINE
- BURIED PIPELINE
- SURFACE PIPELINE
- BERM
- CROSSOVER
- ELECTRICAL PANEL
- PRODUCTION HEADER
- RISER
- STAIRS
- SURFACE ELECTRICAL CHANNEL
- PUMP
- SEPARATOR
- TREATERS AND PUMP BASE
- TANK
- FENCE
- STAIN (5,050 sq ft)

	CI-	PID	Lab CI-	GRO	DRO
<b>PT.4</b>					
<b>SURFACE</b>	<b>821</b>	<b>2916</b>	<b>2020</b>	<b>13700</b>	<b>49300</b>

	CI-	PID	Lab CI-	GRO	DRO
<b>PT.5</b>					
<b>SURFACE</b>	<b>1652</b>	<b>3477</b>	<b>1860</b>	<b>11800</b>	<b>33700</b>

Landowner = State

DGW = 44 ft

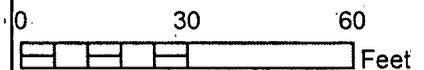
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**APACHE NEDU  
SATELLITE #2  
IRP-9-13-2949**

LEGALS: UL/E sec.10  
T21S - R37E  
LEA COUNTY, NM

Figure 1

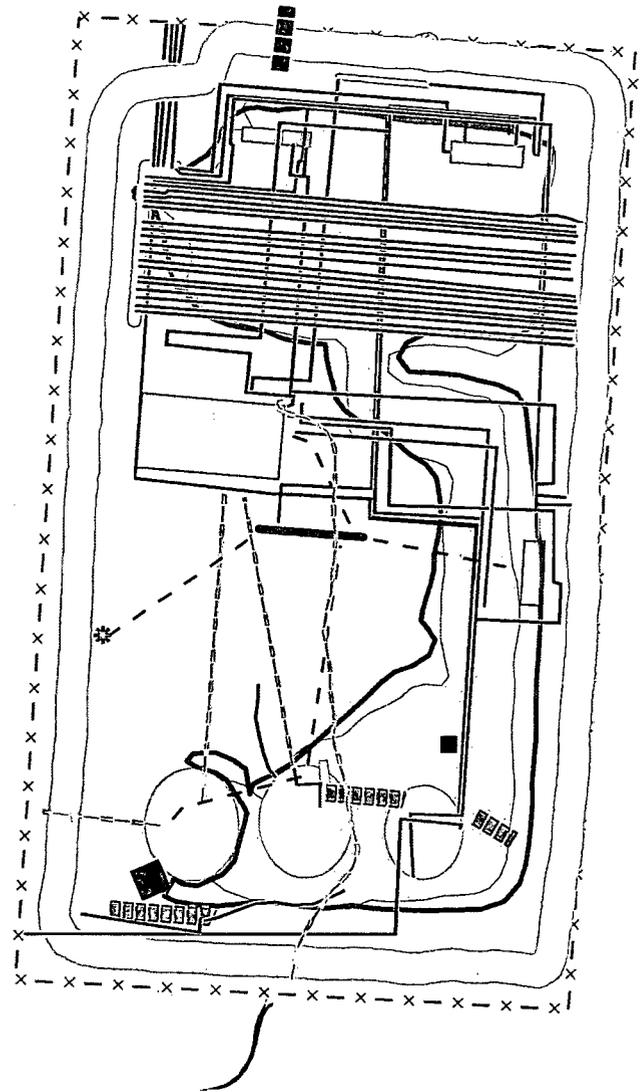


GPS date: 5/10/2013 EC  
Drawing date: 5/16/13  
Drafted by: L. Weinheimer

# Vertical Map

Vertical 8/21/13

Depth	CI-	PID	GRO	DRO	B	T	E	X	BTEX
surface	146	58.5							
6"	155	404.2							
1'	146	1969							
18"	32	3836	1060	7670	0.125	3.61	8.78	24.4	36.9
2'	152	307.4							
30"	200	1783							
3'	181	1363							
42"	172	66.8							
4'	253	315							
54"	281	65.4							
5'	298	332.6							
5.5'	308	65.6							
6'	261	319.1							
6.5'	343	43.6							
7'	236	197.3							
7.5'	274	52.6							
8'	241	244.9							
8.5'	208	4.9							
9'	227	31.4							
9.5'	307	124.3							
10'	240	4.7	<10	<10					
10.5'	256	4.6	<10	<10					



## Legend

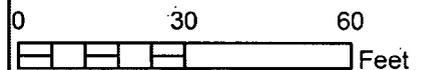
■ VERTICAL	▣ CROSSOVER	□ PUMP
□ GAUGE BOX	— ELECTRICAL PANEL	□ SEPARATOR
* LIGHT POLE	— PRODUCTION HEADER	□ TREATERS AND PUMP BASE
- - - BURIED ELECTRICAL LINE	— RISER	□ TANK
- - - BURIED PIPELINE	▣ STAIRS	x - x - x FENCE
— SURFACE PIPELINE	— SURFACE ELECTRICAL CHANNEL	Landowner = State
▭ BERM	▭ 6 IN SCRAPE	DGW = 44 ft
		□ STAIN (5,050 sq ft)



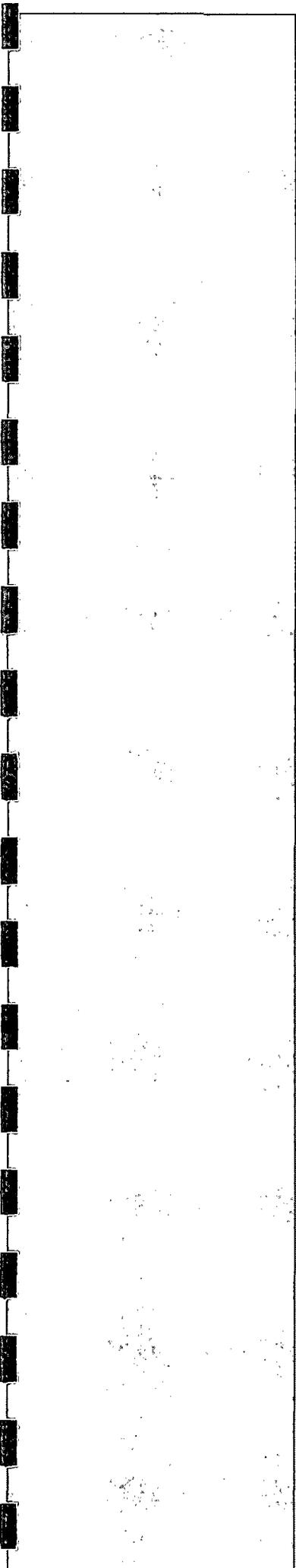
**APACHE NEDU  
SATELLITE #2  
1RP-9-13-2949**

LEGALS: UL/E sec.10  
T21S - R37E  
LEA COUNTY, NM

**Figure 2**



GPS date: 8/21/13 KL  
Drawing date: 8/22/13  
Drafted by: L. Weinheimer



# Appendix A

Initial C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

**HOBBS OCD** State of New Mexico  
Energy Minerals and Natural Resources  
SEP 09 2013 Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

5

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Larry Bruce Baker
Address PO Box 1849, Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name NEDU Satellite #2	Facility Type Satellite
Surface Owner State	Mineral Owner
API No. 3002506461	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	10	21S	37E	1651	FNL	1126	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

DTW=44'

Type of Release Oil	Volume of Release 220 bbls	Volume Recovered 180 bbls
Source of Release Tank overflowed	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5/9/13 5:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The tank overflowed because the automation was down so the transfer pump did not operate. A total of 220 bbls of oil was released and a total of 180 bbls was recovered. The tanks were equalized when switched to the other pump.

Describe Area Affected and Cleanup Action Taken.\*

A total of 5,050 sq ft of area inside the bermed facility was affected. Initial sampling was conducted at the site on 5/10/13 and surface samples were taken to a commercial laboratory for analysis. The release area was scraped down 6 inches. The site will be delineated for further action.

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

Signature: <i>Larry Bruce Baker</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Larry Bruce Baker	<i>Jeffrey Perkins</i> Approved by Environmental Specialist Environmental Specialist	
Title: Environmental Tech	Approval Date: 05/09/13	Expiration Date: 07/09/13
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: SUBMIT FINAL C-141 BY 07/09/13	Attached <input type="checkbox"/>
Date: 8-28-13	Phone: (432) 631-6982	IRP-9-13-2949

\* Attach Additional Sheets If Necessary



# Appendix B

## Initial Sampling Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

May 16, 2013

STEVEN FLEMING

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NEDU SATELLITE #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/14/13 8:25.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 STEVEN FLEMING  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	05/14/2013	Sampling Date:	05/10/2013
Reported:	05/16/2013	Sampling Type:	Soil
Project Name:	NEDU SATELLITE #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 SURFACE SAMPLE (H301143-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1010</b>	16.0	05/14/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11300</b>	100	05/14/2013	ND	211	106	200	1.96		
<b>DRO &gt;C10-C28</b>	<b>41900</b>	100	05/14/2013	ND	208	104	200	1.47		

Surrogate: 1-Chlorooctane 363 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 1160 % 63.6-154

**Sample ID: PT. 2 SURFACE SAMPLE (H301143-02)**

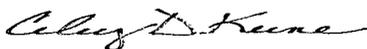
Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2040</b>	16.0	05/14/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11000</b>	50.0	05/14/2013	ND	211	106	200	1.96		
<b>DRO &gt;C10-C28</b>	<b>24500</b>	50.0	05/14/2013	ND	208	104	200	1.47		

Surrogate: 1-Chlorooctane 285 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 616 % 63.6-154

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, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 STEVEN FLEMING  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	05/14/2013	Sampling Date:	05/10/2013
Reported:	05/16/2013	Sampling Type:	Soil
Project Name:	NEDU SATELLITE #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 SURFACE SAMPLE (H301143-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1520</b>	16.0	05/14/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>13600</b>	100	05/14/2013	ND	211	106	200	1.96		
<b>DRO &gt;C10-C28</b>	<b>44400</b>	100	05/14/2013	ND	208	104	200	1.47		

Surrogate: 1-Chlorooctane 410 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 1260 % 63.6-154

**Sample ID: PT. 4 SURFACE SAMPLE (H301143-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2020</b>	16.0	05/14/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>13700</b>	100	05/14/2013	ND	211	106	200	1.96		
<b>DRO &gt;C10-C28</b>	<b>49300</b>	100	05/14/2013	ND	208	104	200	1.47		

Surrogate: 1-Chlorooctane 334 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 1440 % 63.6-154

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, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 STEVEN FLEMING  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	05/14/2013	Sampling Date:	05/10/2013
Reported:	05/16/2013	Sampling Type:	Soil
Project Name:	NEDU SATELLITE #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 SURFACE SAMPLE (H301143-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1860</b>	16.0	05/14/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11800</b>	50.0	05/14/2013	ND	211	106	200	1.96		
<b>DRO &gt;C10-C28</b>	<b>33700</b>	50.0	05/14/2013	ND	208	104	200	1.47		

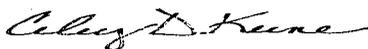
Surrogate: 1-Chlorooctane      ~ 325 %      65.2-140

Surrogate: 1-Chlorooctadecane      932 %      63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

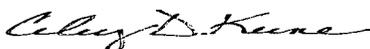
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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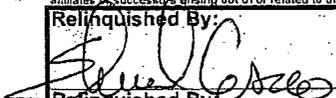
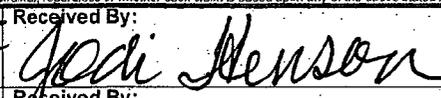
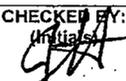
Celey D. Keene, Lab Director/Quality Manager

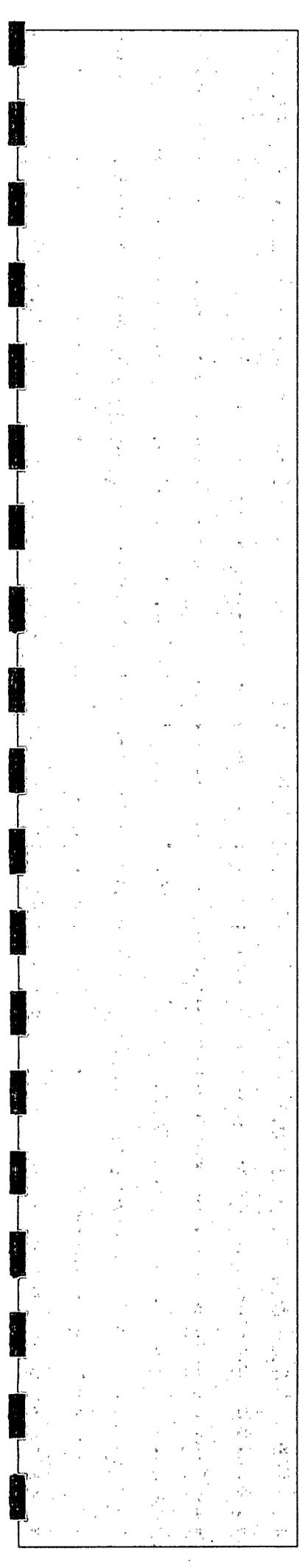
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>APACHE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <b>STEVE FLEMMINGS</b>		P.O. #:		<div style="display: flex; justify-content: space-around; font-size: 2em; font-weight: bold;"> <span>CHLORIDES</span> <span>TPH</span> </div>																							
Address:		Company:																									
City:	State:	Zip:	Attn:																								
Phone #:	Fax #:	Address:																									
Project #:	Project Owner:													City:													
Project Name:		State:	Zip:																								
Project Location: <b>NEDU SATELLITE #2 BATTERY</b>		Phone #:																									
Sampler Name: <b>EDWARD CESAREO</b>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR C/OMP. # CONTAINERS)	MATRIX											PRESERV.			SAMPLING										
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
<b>H301143</b>	<b>Initial</b>																										
<b>1</b>	<b>Pt.1 Surface Sample</b>	<b>G</b>				<input checked="" type="checkbox"/>						<b>5-10-13</b>	<b>5:40</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<b>2</b>	<b>Pt.2 Surface Sample</b>	<b>G</b>				<input checked="" type="checkbox"/>							<b>5:50</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<b>3</b>	<b>Pt.3 Surface Sample</b>	<b>G</b>				<input checked="" type="checkbox"/>							<b>5:55</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<b>4</b>	<b>Pt.4 Surface Sample</b>	<b>G</b>				<input checked="" type="checkbox"/>							<b>6:00</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<b>5</b>	<b>Pt.5 Surface Sample</b>	<b>G</b>				<input checked="" type="checkbox"/>							<b>6:10</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

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Relinquished By: 	Date: <b>5-10-13</b>	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time:	<b>8:25</b>	Time:	REMARKS:	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			



# Appendix C

## Vertical Sampling Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

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August 22, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: NEDU SATELLITE #2 AD

Enclosed are the results of analyses for samples received by the laboratory on 08/21/13 17:40.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

 Received: 08/21/2013  
 Reported: 08/22/2013  
 Project Name: NEDU SATELLITE #2 AD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/21/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: VERTICAL @ 10' (H302006-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	08/22/2013	ND	416	104	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	08/22/2013	ND	214	107	200	7.90		
DRO >C10-C28	<10.0	10.0	08/22/2013	ND	221	111	200	7.69		
<i>Surrogate: 1-Chlorooctane</i>	83.3 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	92.9 %	63.6-154								

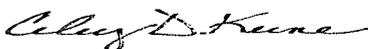
**Sample ID: VERTICAL @ 10.5' (H302006-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	08/22/2013	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	08/22/2013	ND	214	107	200	7.90		
DRO >C10-C28	<10.0	10.0	08/22/2013	ND	221	111	200	7.69		
<i>Surrogate: 1-Chlorooctane</i>	82.4 %	65.2-140								
<i>Surrogate: 1-Chlorooctadecane</i>	90.3 %	63.6-154								

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received:	08/21/2013	Sampling Date:	08/21/2013
Reported:	08/22/2013	Sampling Type:	Soil
Project Name:	NEDU SATELLITE #2 AD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: VERTICAL @ 18" (H302006-03)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.125</b>	0.050	08/22/2013	ND	2.36	118	2.00	16.6		
<b>Toluene*</b>	<b>3.61</b>	0.050	08/22/2013	ND	2.31	115	2.00	17.1		
<b>Ethylbenzene*</b>	<b>8.78</b>	0.050	08/22/2013	ND	2.47	124	2.00	17.2		
<b>Total Xylenes*</b>	<b>24.4</b>	0.150	08/22/2013	ND	7.46	124	6.00	17.4		
<b>Total BTEX</b>	<b>36.9</b>	0.300	08/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 717 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	08/22/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1060</b>	100	08/22/2013	ND	214	107	200	7.90		
<b>DRO &gt;C10-C28</b>	<b>7670</b>	100	08/22/2013	ND	221	111	200	7.69		

Surrogate: 1-Chlorooctane 183 % 65.2-140

Surrogate: 1-Chlorooctadecane 218 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: <u>Apache</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <u>Bruce Baker</u>		P.O. #:																									
Address: <u>419 W. Cain</u>		Company:																									
City:	State: <u>NM</u>	Zip: <u>88240</u>	Attn:																								
Phone #:	Fax #:		Address:																								
Project #:	Project Owner:		City:																								
Project Name:		State:	Zip:																								
Project Location: <u>NEDU Satellite #2</u>		Phone #:																									
Sampler Name: <u>Karanja Lewis</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS											MATRIX						PRESERV.		SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH	BTEX										
<u>H302DD6</u>																											
	<u>1</u>	<u>Vertical @ 10'</u>	<u>G</u>	<u>1</u>									<u>8-21-13</u>	<u>5:10</u>													
	<u>2</u>	<u>Vertical @ 10.5'</u>	<u>G</u>	<u>1</u>									<u>8-21-13</u>	<u>5:12</u>													
	<u>3</u>	<u>Vertical @ 18"</u>	<u>G</u>	<u>1</u>									<u>8-21-13</u>	<u>5:09</u>													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>KARANJA LEWIS</u>	Date: <u>8-21-13</u> Time: <u>5:40</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>270c</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u>	REMARKS: <u>email results to hcarder@ricestest.com jkampain@rice-ecs.com klawis@rice-ecs.com lbaker@apachecorp.com</u>	

**RUSH!!**

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

sample taken & brought directly to lab. AA

#54



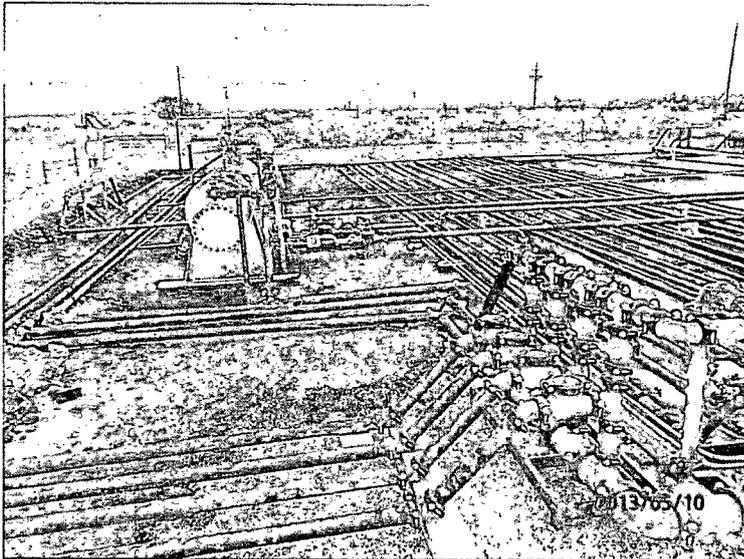
# Appendix D

Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

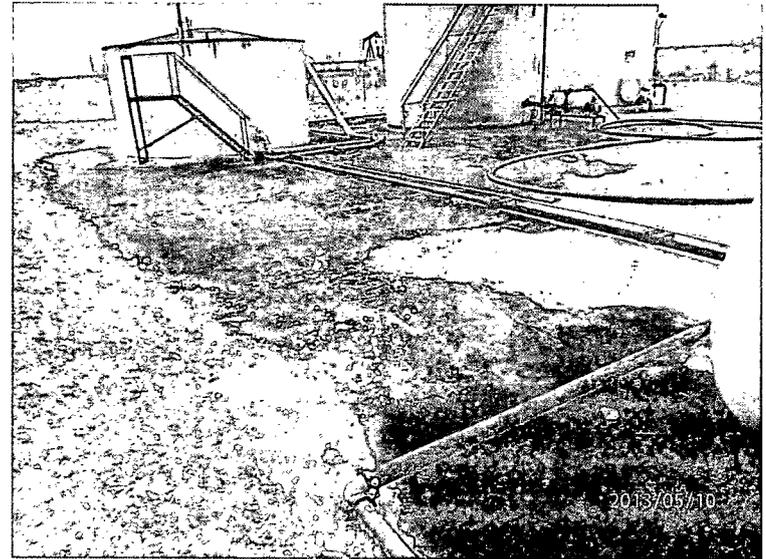
# Apache NEDU Satellite #2 AD

Unit Letter E, Section 10, T21S, R37E



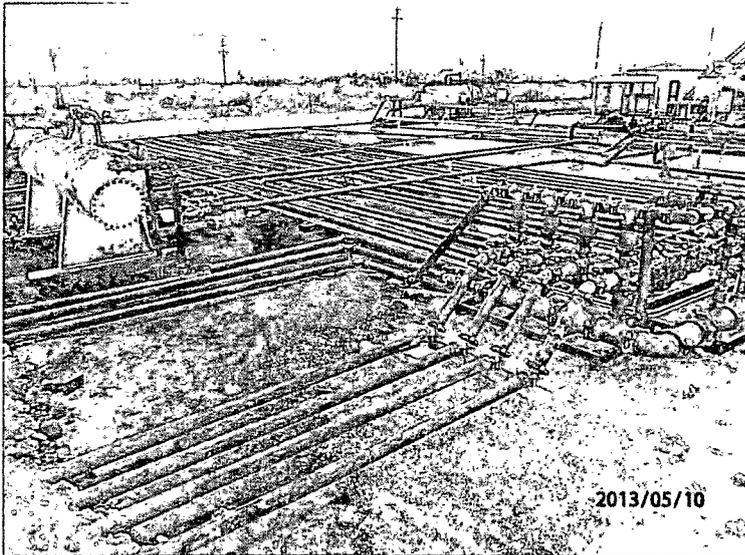
Initial release area, facing northeast

5/10/13



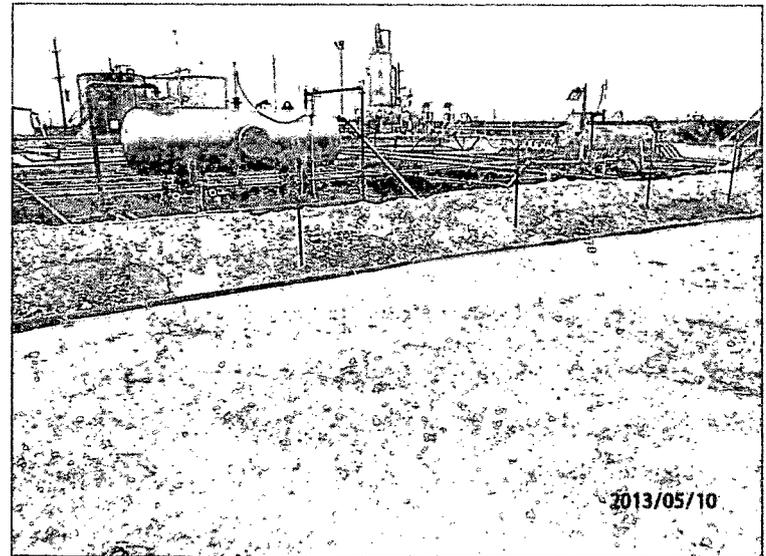
Initial release area, facing southeast

5/10/13



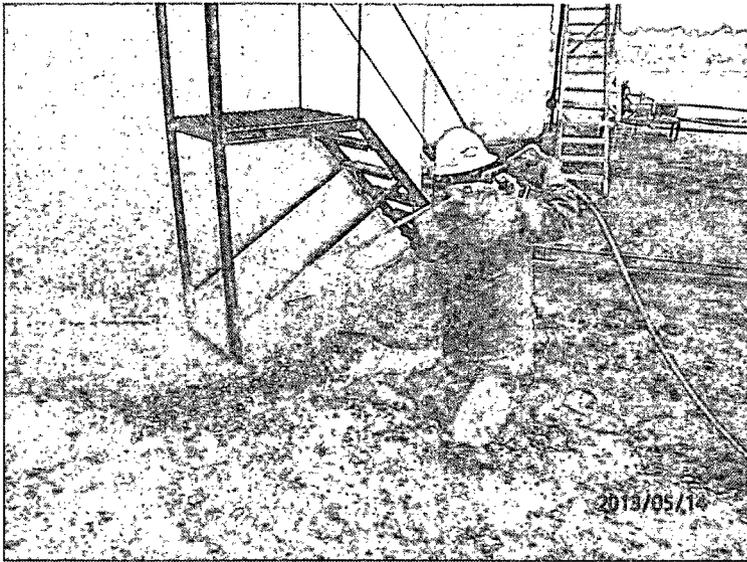
Initial release area, facing northwest

5/10/13

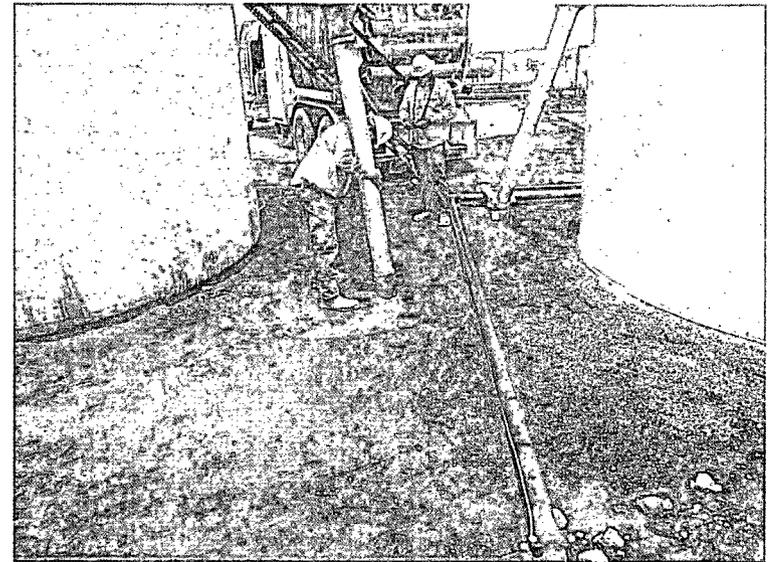


Initial release area, facing south

5/10/13



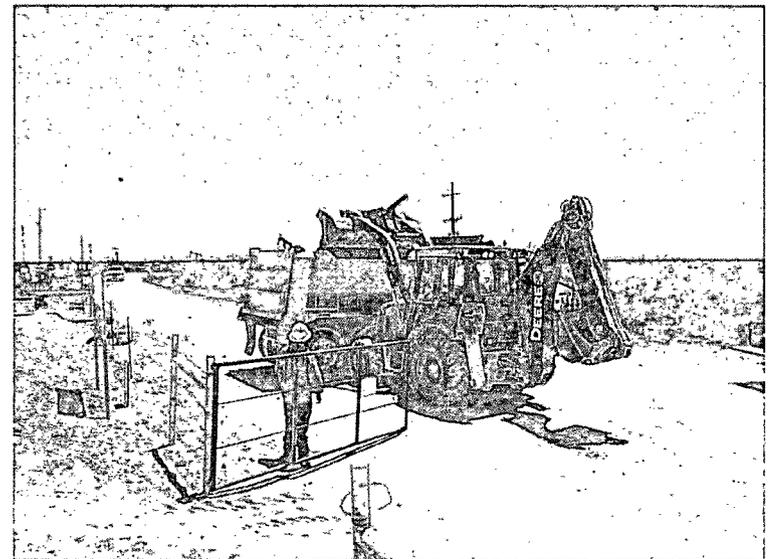
Washing down the tanks, facing west 5/14/13



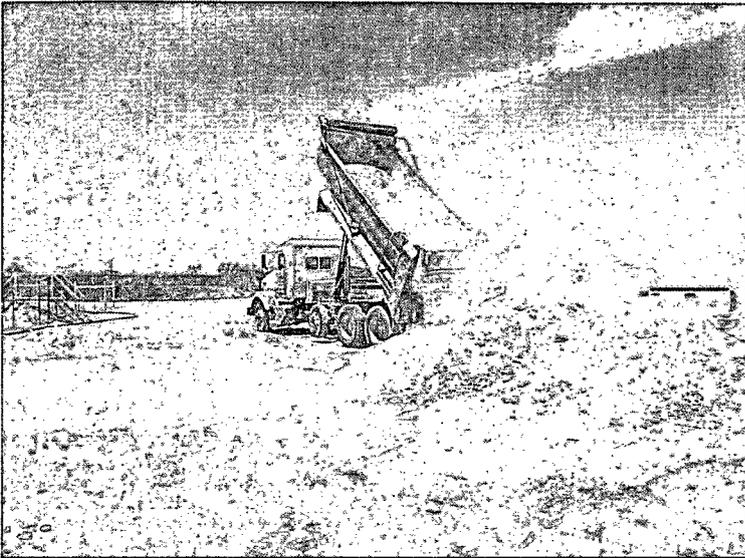
Using the hydro-vac to clean up release, facing north 5/15/13



Hand dig release to 6 in bgs, facing south 5/17/13

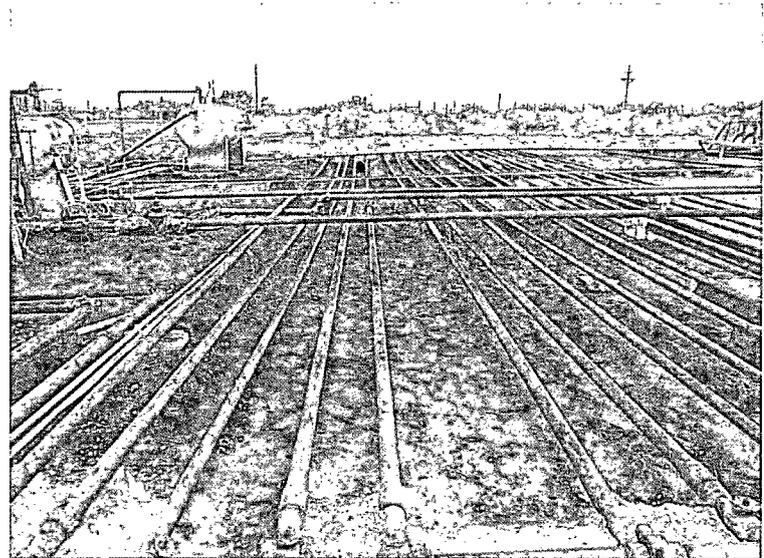


Exporting soil, facing south 5/20/13



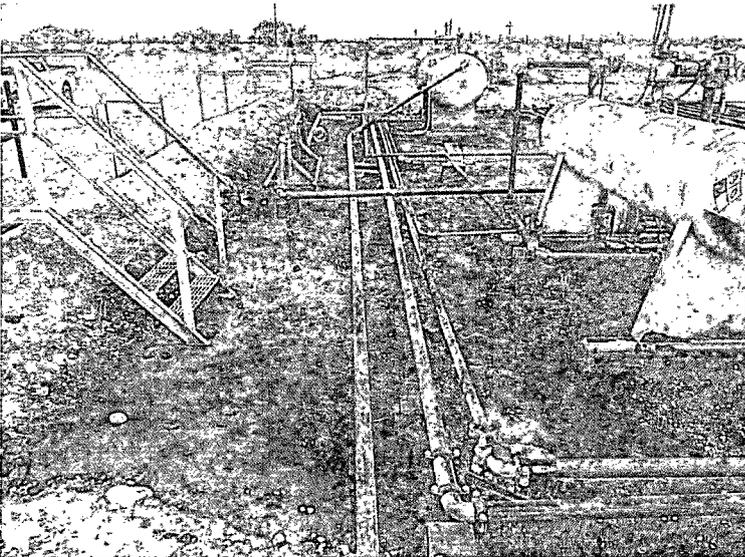
Importing caliche, facing west

5/23/13



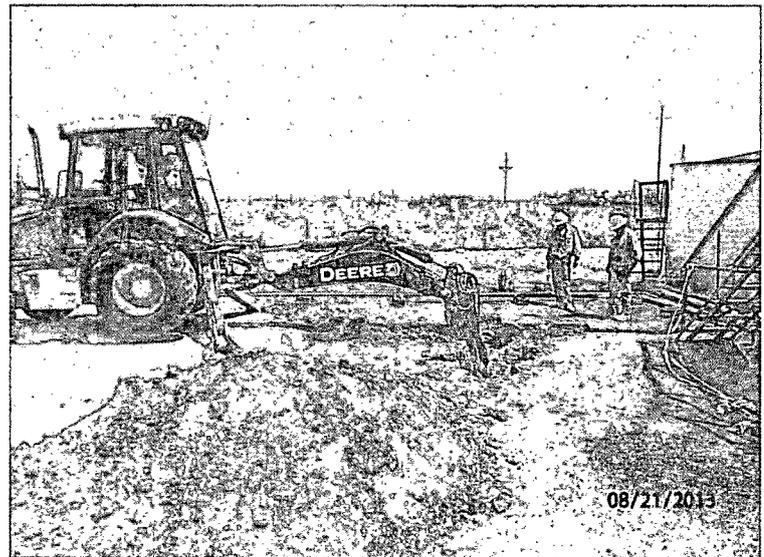
6 in scrape completed, facing north

5/23/13



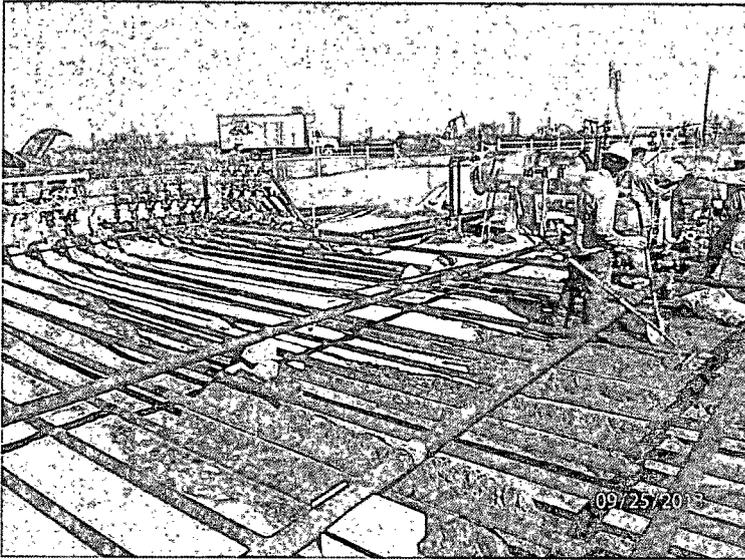
6 in scrape completed, facing north

5/23/13

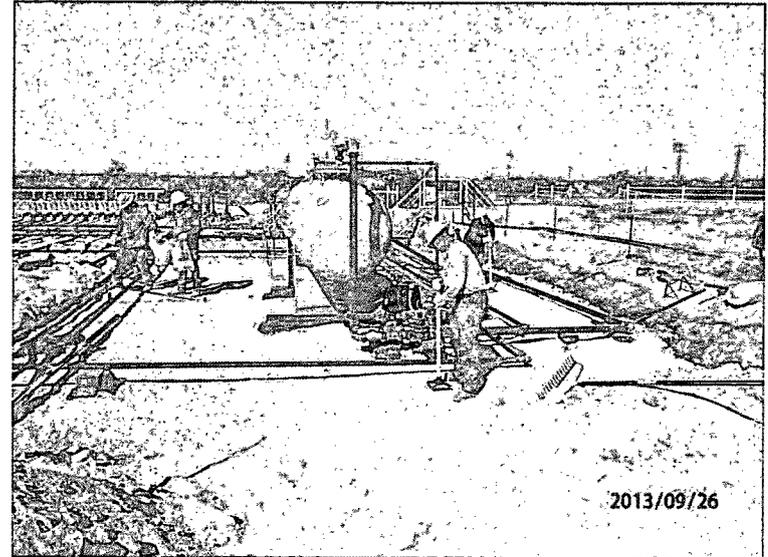


Digging vertical, facing east

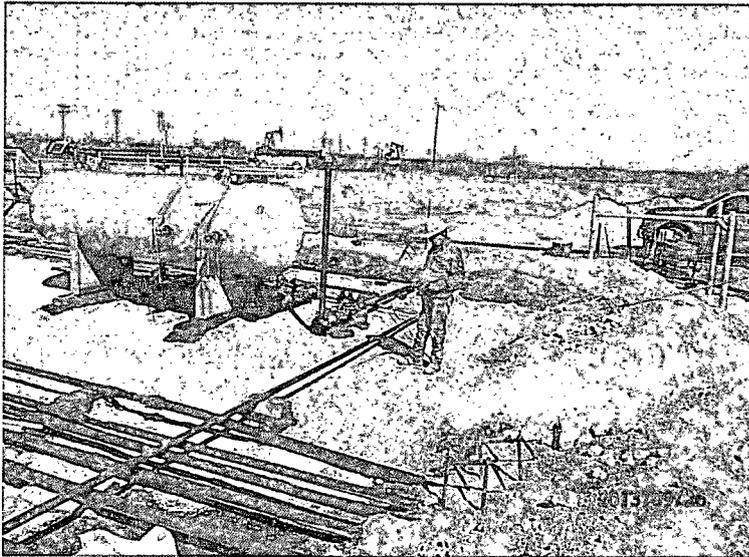
8/21/13



Spreading 6 in of bentonite over release area, facing northwest 9/25/13



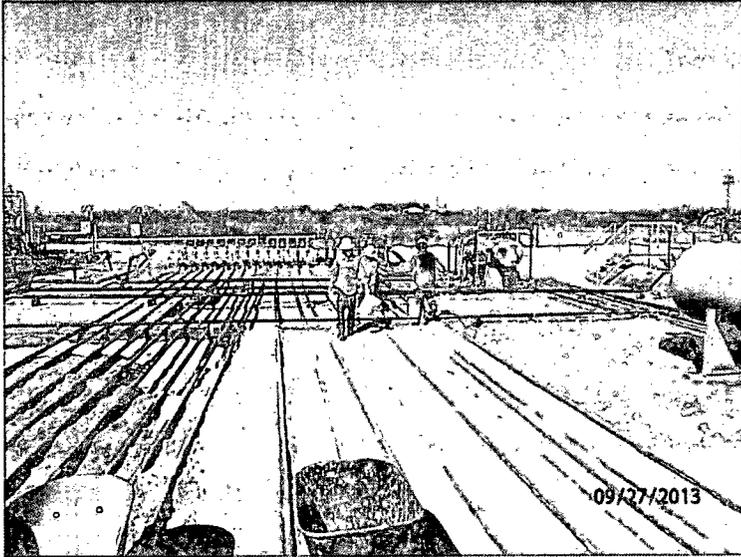
Tamping bentonite, facing west 9/26/13



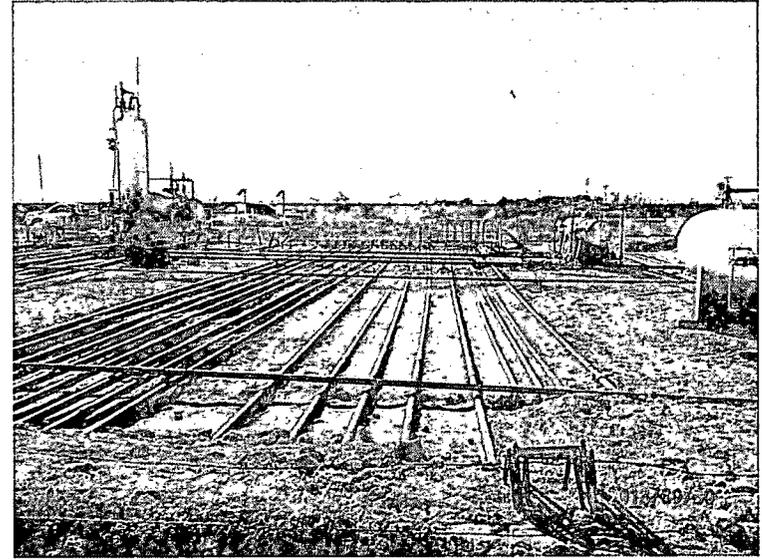
Watering down bentonite, facing northwest 9/26/13



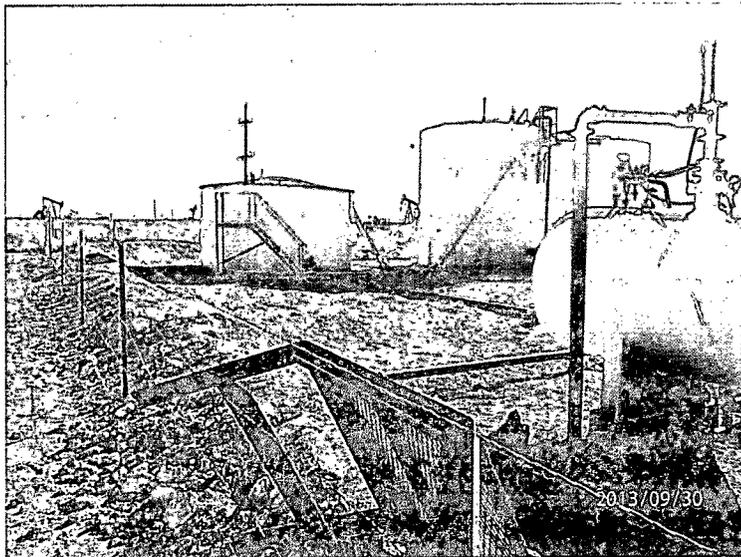
Importing caliche, facing north 9/26/13



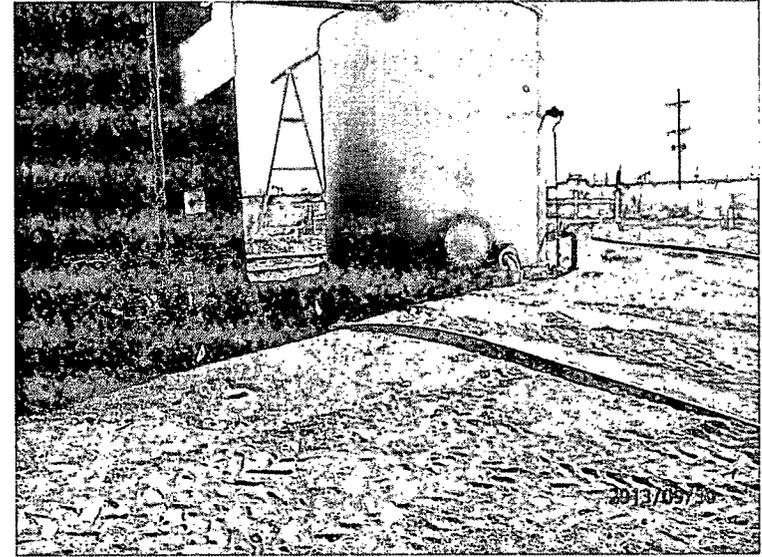
Backfilling the site with 3 inches of caliche, facing west  
9/27/13



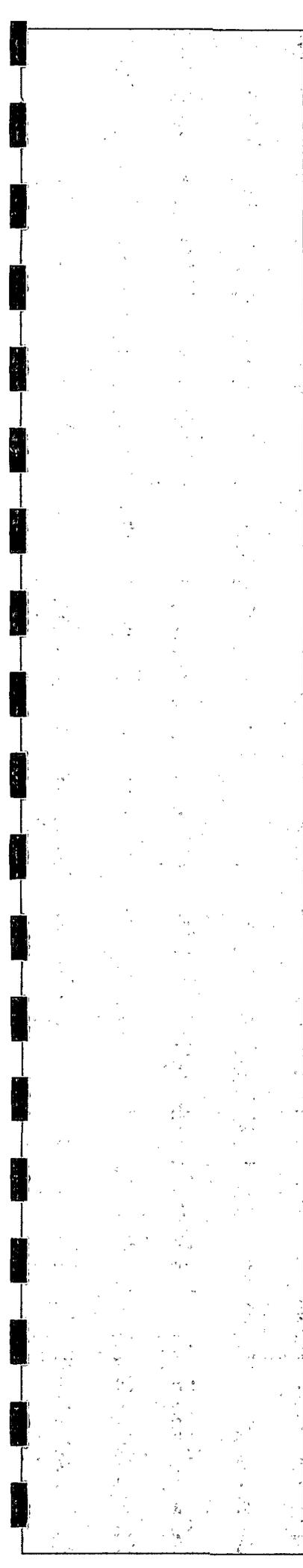
Site completed, facing west  
9/30/13



Site completed, facing south  
9/30/13



Site completed, facing southwest  
9/30/13



# Appendix E

Final C-141

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Apache Corporation	Contact Larry Bruce Baker
Address PO Box 1849, Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name NEDU Satellite #2	Facility Type Satellite

Surface Owner State	Mineral Owner	API No. 3002506461
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	10	21S	37E	1650	FNL	1126	FWL	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release Oil	Volume of Release 220 bbls	Volume Recovered 180 bbls
Source of Release Tank overflowed	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5/9/13 5:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

DTW = 44'

Describe Cause of Problem and Remedial Action Taken.\* The tank overflowed because the automation was down so the transfer pump did not operate. A total of 220 bbls of oil was released and a total of 180 bbls was recovered. The tanks were equalized when switched to the other transfer pump.

Describe Area Affected and Cleanup Action Taken.\* A total of 5,050 sq ft of area inside the bermed facility was affected. An initial C-141 was sent to NMOCD on September 6<sup>th</sup>, 2013 detailing the release. RECS personnel were on site beginning on May 10<sup>th</sup>, 2013 to assess the release. Surface samples were taken throughout the release and field tested for chlorides and hydrocarbons. The samples were then taken to a commercial laboratory for analysis and returned results of elevated chlorides, Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). The facility tanks were washed down and the site was excavated using a hydrovac followed by hand digging to 6 inches bgs. A total of 122 yards of excavated soil was taken to a NMOCD approved facility for disposal. A vertical was installed on August 21<sup>st</sup>, 2013 and was advanced to 10.5 feet. As the vertical was advanced, samples were taken every half foot and field tested for chlorides and hydrocarbons. Representative samples from the vertical were taken to a commercial laboratory for analysis. Based on the vertical data, on September 6<sup>th</sup>, 2013, NMOCD verbally approved the excavated area be backfilled with 1 inch of bentonite chips, which would be tamped and watered down. The bentonite would provide an infiltration barrier for the site that would inhibit the downward migration of constituents to groundwater. The bentonite would then be covered with 3 inches of clean, imported caliche. RECS began these actions on September 25<sup>th</sup>, 2013. A total of 9 pallets of bentonite were used to cover the release area to a depth of 1 inch. The bentonite was tamped down and watered. A 3 inch layer of clean, imported caliche was then spread over the bentonite.

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

Signature: <i>Larry Bruce Baker</i>	OIL CONSERVATION DIVISION <i>Larry Bruce Baker</i> Environmental Specialist	
Printed Name: Larry Bruce Baker	Approved by Environmental Specialist	
Title: Environmental Tech	Approval Date: 2/12/14	Expiration Date: -
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: -	Attached <input type="checkbox"/>
Date: 10-8-13 Phone: (432) 631-6982		IRP-9-13-2949

\* Attach Additional Sheets If Necessary