



LUCID
energy group

201 S. 4th St
Artesia, NM 88210
main 575.748.4555
fax 575.208.7207
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For US Mail
P.O. Box 158
Artesia, NM 88211-0158

November 10, 2018

Attn: Bradford Billings
New Mexico Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico, 87505

Re: Agave Energy Company & Lucid Energy Group
1RP-4256 Closure

Mr. Billings,

This letter and the accompanying documentation are being submitted in response to the notification I received on 11/5/2018, which indicated that 1RP-4256 was still being shown as Active in the NMOCD records.

The initial C-141, work plan and final C-141 were received by NMOCD's District I office on 4/21/2016. J. Keyes approved the submission that same day. All remediation work was conducted in accordance with the approved work plan. Closure was requested and approved via email from J. Keyes.

Lucid considers this release closed and is requesting NMOCD to update their records to reflect the correct status of 1RP-4256.

If you have any questions, please do not hesitate to call me at 575-810-6021.

Sincerely,
Kerry Egan
Environmental Compliance Manager



201 South Fourth St.
Artesia, NM Office: (575) 810-6021 | Cell: (575) 513-8988
Kegan@lucid-energy.com | www.lucid-energy.com

Kerry Egan

From: Keyes, Jamie, EMNRD <Jamie.Keyes@state.nm.us>
Sent: Thursday, April 21, 2016 1:51 PM
To: Kerry Egan
Subject: RE: 4/12/16 Frac Cat Compressor Station Release

Good afternoon,

The C-141 has been received and approved. The RP # for this event is 4256 and it has been closed.

Thank you,

Jamie

From: Kerry Egan [mailto:kegan@agaveenergy.com]
Sent: Thursday, April 21, 2016 1:36 PM
To: Keyes, Jamie, EMNRD
Subject: 4/12/16 Frac Cat Compressor Station Release

Jamie,

As we discussed on the phone last week we had a fire that caused a release from our produced water tank at the Frac Cat Compressor Station in Lea County. I've attached the documentation I have on the release and our remediation work done to date. Sampling of the site shows the affected area to be below the Recommended Remediation Action Levels, and to be below 250 ppm for chlorides. As such, Agave is requesting closure of the spill. Please review the attached documentation and let me know if you have any questions, concerns or further requirements.

Thanks,
Kerry Egan
Environmental, Health and Safety Department
Agave Energy Company
Office: (575) 748-4469
Cell: (575) 513-8988
KEgan@agaveenergy.com



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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 X Final Report

Name of Company	Agave Energy Company	Contact	Kerry Egan
Address	326 West Quay Artesia, NM 88210	Telephone No.	575 513-8988
Facility Name:	Frac Cat Compressor Station	Facility Type:	Compressor Station
Surface Owner:	State of NM	Mineral Owner	
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	21	24S	32E					Lea

Latitude 32.200600 Longitude -103.683600

NATURE OF RELEASE

Type of Release: Produced Water/condensate	Volume of Release: Approximately 30 bbls	Volume Recovered: 20 bbls of liquids
Source of Release: Agave believes the	Date and Hour of Occurrence: 4/12/16 10:00AM	Date and Hour of Discovery: 4/12/16 10:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Initial Notification to Mike Bratcher at NMOCD District 2 office, subsequent notification to Jamie Keyes in NMOCD District 1 office.	
By Whom? Kerry Egan (Agave)	Date and Hour: 4/12/16 2:45PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

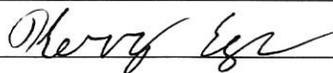
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Agave's incident investigation has concluded that the produced water tank was struck by lightning resulting in a fire. The fire ultimately burned the fiberglass tank and damaged the containment it was sitting in. Prior to the fire the tank had approximately 30 bbls of produced water, with a minor amount of hydrocarbon liquids. The containment held approximately 20 bbls of the released liquids, which were able to be recovered. Approximately 10 bbls of liquids were released from the containment where it failed on its southern wall.

Describe Area Affected and Cleanup Action Taken.*
The 10 bbls of liquids that escaped the containment followed the contour of the station's pad and formed a pool approximately 4' wide by 40' long. No liquids escaped the location. As soon as the fire was extinguished an emergency one call was submitted and the liquids and affected soil was excavated within three hours of the incident. The top 4"-6" of pad material were removed and disposed of. The failed containment was removed and disposed of.

Soil sampling was conducted at the site. The results show the location to be below the Recommended Remediation Action Levels (RRAL) for all constituents: Benzene, BTEX, and TPH. The soil was also shown to be below 250 ppm for chlorides. As such Agave is requesting closure of this release.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Kerry Egan	Approved by Environmental Specialist: 		
Title: Eng Tech <i>9</i>	Approval Date: 4/17/2023	Expiration Date: N/A	
E-mail Address: KEgan@yatespetroleum.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/21/16 Phone: 575 748-4555	none		

* Attach Additional Sheets If Necessary

Closure approved on 4/21/2016 By Jamie Keyes. See email documentation attached in this closure packet

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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

X Initial Report Final Report

Name of Company	Agave Energy Company	Contact	Kerry Egan
Address	326 West Quay Artesia, NM 88210	Telephone No.	575 513-8988
Facility Name:	Frac Cat Compressor Station	Facility Type:	Compressor Station
Surface Owner:	State of NM	Mineral Owner	
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	21	24S	32E					Lea

Latitude 32.200600 Longitude -103.683600

NATURE OF RELEASE

Type of Release: Produced Water/condensate	Volume of Release: Approximately 30 bbls	Volume Recovered: 20 bbls of liquids
Source of Release: Agave believes the	Date and Hour of Occurrence: 4/12/16 10:00AM	Date and Hour of Discovery: 4/12/16 10:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Initial Notification to Mike Bratcher at NMOCD District 2 office, subsequent notification to Jamie Keyes in NMOCD District 1 office.	
By Whom? Kerry Egan (Agave)	Date and Hour: 4/12/16 2:45PM	
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.* Agave's incident investigation has concluded that the produced water tank was struck by lightning resulting in a fire. The fire ultimately burned the fiberglass tank and damaged the containment it was sitting in. Prior to the fire the tank had approximately 30 bbls of produced water, with a minor amount of hydrocarbon liquids. The containment held approximately 20 bbls of the released liquids, which were able to be recovered. Approximately 10 bbls of liquids were released from the containment where it failed on its southern wall.

Describe Area Affected and Cleanup Action Taken.*

The 10 bbls of liquids that escaped the containment followed the contour of the station's pad and formed a pool approximately 4' wide by 40' long. No liquids escaped the location. As soon as the fire was extinguished an emergency one call was submitted and the liquids and affected soil was excavated within three hours of the incident. The top 4"-6" of pad material were removed and disposed of. The failed containment was removed and disposed of.

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: 	OIL CONSERVATION DIVISION		
Printed Name: Kerry Egan	Approved by Environmental Specialist:		
Title: Eng Tech	Approval Date:	Expiration Date:	
E-mail Address: KEgan@yatespetroleum.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/21/16 Phone: 575 748-4555			

* Attach Additional Sheets If Necessary



Agave Energy Company

Frac Cat Compressor Station Remediation

Sec 21, T24S – R32E

Lea County, New Mexico

April 18, 2016

Location

From Carlsbad, NM travel south on US Hwy 285 to CR 31. Turn left on CR 31 and go approximately 9.0 miles to Jal Hwy (CR 128). Turn right (southeast) and go approximately 22.5 miles to Orla Rd (CR 1). Turn right (south) and go 1.0 mile to lease road. Turn right through cattle guard and continue to location.

Introduction

On the morning of Tuesday April 12, 2016 the 210 bbl fiberglass produced/process water tank was struck by lightning resulting in a fire and release of liquids. At the time of the incident the tank had approximately 30 bbls of liquids in it. This tank was in its own secondary containment, which held 20 bbls of the released liquids until it could be recovered after the fire was extinguished. The fire resulted in the loss of the tank and damage to the containment itself. The damage to the containment resulted in a loss of approximately 10 bbls of liquids, which had escaped to the station pad; no liquid was released outside the perimeter of the facility.

As soon as the fire was extinguished, Agave utilized contractors and equipment already on location to excavate the contaminated soil. The affected area was approximately 4 ft. wide by 40 ft. long. In total the top 3"-6" of pad material was excavated, and soil samples were collected.

Site Ranking

Based on the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, August 13, 1993), hereafter referred to as "the Guidelines", the site ranking criteria are as follows.

Depth to Ground Water: The nearest Depth to Groundwater record (C-03528) listed on the New Mexico Office of the State Engineer (Sec 15, T24S-R32E) shows depth of groundwater to be approximately 541 feet. Exhibiting a depth to groundwater of greater than 100 feet, results in a ranking score of 0.

Wellhead Protection Area: The nearest water sources to the station is one well used for livestock watering, located 2 miles to the northeast of the site. According to the *Guidelines*, not being within 1000 feet of a water source results in a site ranking of 0.

Distance to Surface Water Body: The nearest surface water body is the Pecos River, located 17 miles to the west, resulting in a site ranking of 0.

Total Site Ranking:

Depth to Ground water	0
Wellhead Protection Area	0
Distance to Surface Water Body	<u>0</u>
Total:	0

Recommended Remediation Action Level

According to the *Guidelines*, a location with a site ranking of 0 or greater is subject to the following Recommended Remediation Action Level (RRAL).

Benzene	10 ppm
BTEX	50 ppm
TPH	5000 ppm

There are no standards set for chloride contamination set within the *Guidelines*. At the request of NMOCD, Agave has delineated the site to at least 250 ppm Chlorides.

Scope of Work

Based on the results of our soil sampling (attached), Agave has completed all necessary excavation work and sent the contaminated material to an NMOCD approved disposal. Upon acceptance of this closure documentation Agave will install a new containment to replace the one damaged in the fire, and set a new tank to replace the original tank.



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01932	C	ED		3	1	12	24S	32E		628633	3567188*	492		
C 02350		ED		4	3	10	24S	32E		625826	3566333*	60		
C 03527 POD1	C	LE		1	2	3	03	24S	32E	625770	3568487	500		
C 03528 POD1	C	LE		1	1	2	15	24S	32E	626040	3566129	541		
C 03530 POD1	C	LE		3	4	3	07	24S	32E	620886	3566156	550		
C 03555 POD1	C	LE		2	2	1	05	24S	32E	622709	3569231	600	380	220

Average Depth to Water: **380 feet**
 Minimum Depth: **380 feet**
 Maximum Depth: **380 feet**

Record Count: 6

PLSS Search:

Section(s): 1-36

Township: 24S

Range: 32E

*UTM location was derived from PLSS - see Help

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



New Mexico Office of the State Engineer Water Right Summary



[get image list](#)

WR File Number: C 03528 **Subbasin:** C **Cross Ref Num:** -
Primary Purpose: STK 72-12-1 LIVESTOCK WATERING
Primary Status: PMT PERMIT
Total Acres: **Subfile:** -
Total Diversion: 3
Owner: MARK MCCLOY
Owner: ANNETTE MCCLOY

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/	Acres	Diversion	Consumptive
			1	2		To			
get images	491386	72121	2011-12-14	PMT	LOG	C 03528	T		3

Current Points of Diversion

POD Number	Source	Q Q Q			X	Y	Other Location Desc
		6416	4	Sec Tws Rng			
C 03528 POD1	Shallow	1	1	2 15 24S 32E	626040	3566129	NO FIELD GPS DONE BY DRILLER

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

Appendix A: Soil Sampling Summary

Soil Sample Summary: Frac Cat CS

Analytical Report Sample ID	Depth	BTEX (ppm)	Benzene (ppm)	GRO (ppm)	DRO (ppm)	Cl- (ppm)	Comments
H600821-01	0'	ND	ND	ND	17.4	112	Taken from the surface after the affected soil had been excavated to a depth of 3"-6".
H600821-02	1'	ND	ND	ND	ND	32	Taken from 1' below the surface after excavation of affected soil.
H600821-03	0'	ND	ND	ND	ND	176	Taken from the surface after the affected soil had been excavated to a depth of 3"-6".
H600821-04	1'	ND	ND	ND	ND	16	Taken from 1' below the surface after excavation of affected soil.
H600821-05	0'	ND	ND	ND	ND	ND	Taken from the surface after the affected soil had been excavated to a depth of 3"-6".
H600821-06	1'	ND	ND	ND	ND	ND	Taken from 1' below the surface after excavation of affected soil.
H600821-07	0'	ND	ND	ND	11.3	144	Taken from the surface after the affected soil had been excavated to a depth of 3"-6".
H600821-08	1'	ND	ND	ND	ND	96	Taken from 1' below the surface after excavation of affected soil.



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

April 15, 2016

KERRY EGAN

AGAVE ENERGY COMPANY

P. O. BOX 158

ARTESIA, NM 88211

RE: FRAC CAT COMPRESSOR STATION

Enclosed are the results of analyses for samples received by the laboratory on 04/14/16 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AGAVE ENERGY COMPANY
 KERRY EGAN
 P. O. BOX 158
 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #1A (H600821-01)

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	04/14/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	<0.150	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	<0.300	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3	
DRO >C10-C28	17.4	10.0	04/14/2016	ND	206	103	200	16.0	

Surrogate: 1-Chlorooctane 74.9 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AGAVE ENERGY COMPANY
 KERRY EGAN
 P. O. BOX 158
 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #1B (H600821-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3	
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0	

Surrogate: 1-Chlorooctane 85.7 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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AGAVE ENERGY COMPANY
 KERRY EGAN
 P. O. BOX 158
 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #2A (H600821-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2016	ND	1.99	99.4	2.00	3.92		
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23		
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 74.7 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AGAVE ENERGY COMPANY
 KERRY EGAN
 P. O. BOX 158
 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #2B (H600821-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2016	ND	1.99	99.4	2.00	3.92		
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23		
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

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	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 76.2 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #3A (H600821-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

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	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3	
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0	

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Analytical Results For:

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 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #3B (H600821-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2016	ND	1.99	99.4	2.00	3.92		
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23		
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

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	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 70.4 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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 ARTESIA NM, 88211
 Fax To: (575) 748-4275

Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #4A (H600821-07)

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	04/15/2016	ND	1.99	99.4	2.00	3.92		
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23		
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	11.3	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Received:	04/14/2016	Sampling Date:	04/14/2016
Reported:	04/15/2016	Sampling Type:	Soil
Project Name:	FRAC CAT COMPRESSOR STATION	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: FRAC CAT #4B (H600821-08)

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	04/15/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/15/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/14/2016	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	04/14/2016	ND	178	89.0	200	12.3	
DRO >C10-C28	<10.0	10.0	04/14/2016	ND	206	103	200	16.0	

Surrogate: 1-Chlorooctane 79.7 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Notes and Definitions

- 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.
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

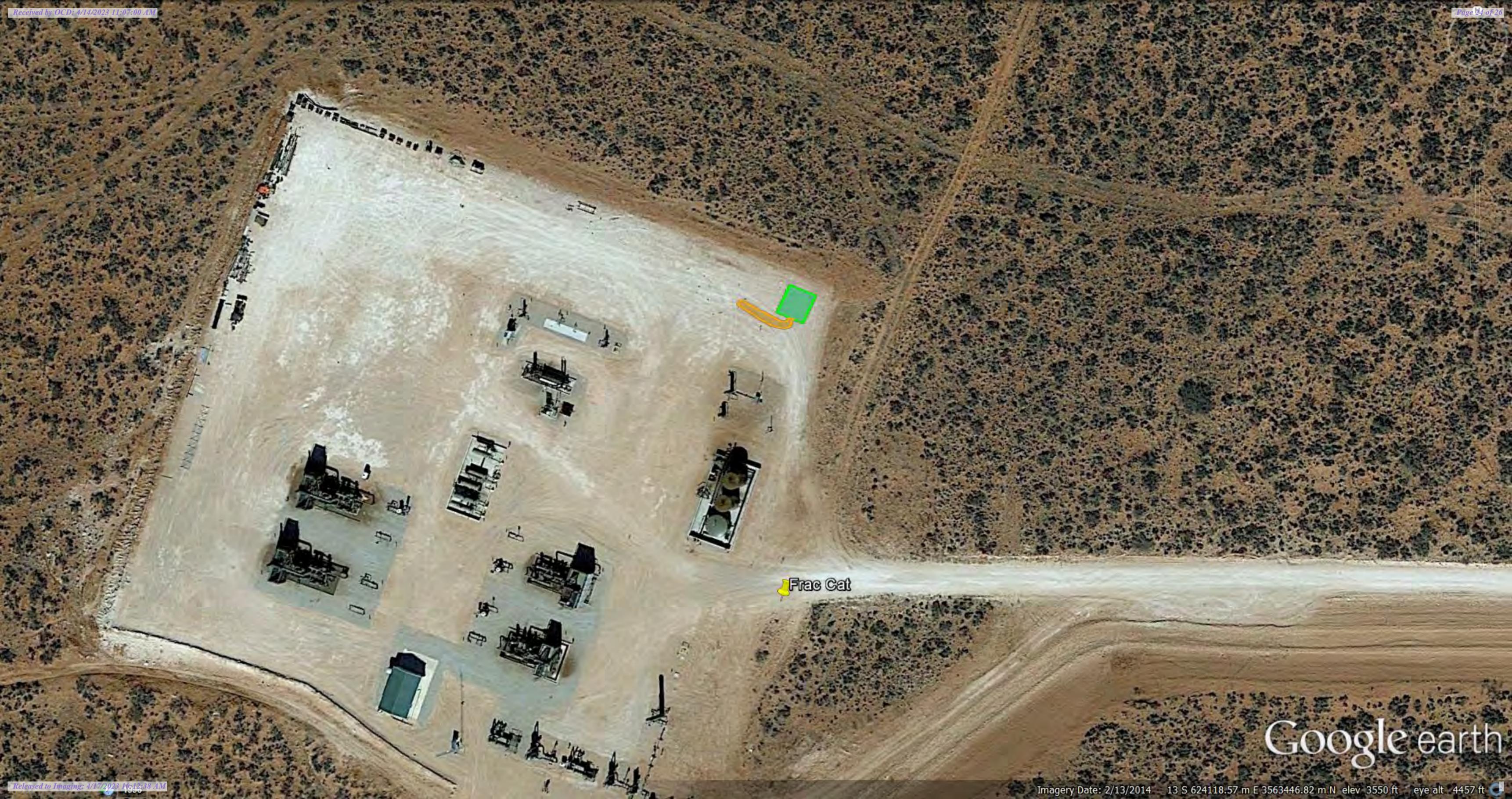
Celey D. Keene, Lab Director/Quality Manager

Appendix B: Sample Location

The following maps identify the location of the release and location of sample collection at the Frac Cat Compressor Station. The area highlighted in green was the approximate area of the containment and tank when the fire and release occurred. The containment was a 25' by 25' constructed of metal walls and spray in liner. As a result of the fire, the containment failed on the south wall, releasing approximately 10 bbls of liquids onto the ground. The affected area was approximately 4' wide by 40' long and is highlighted in orange.

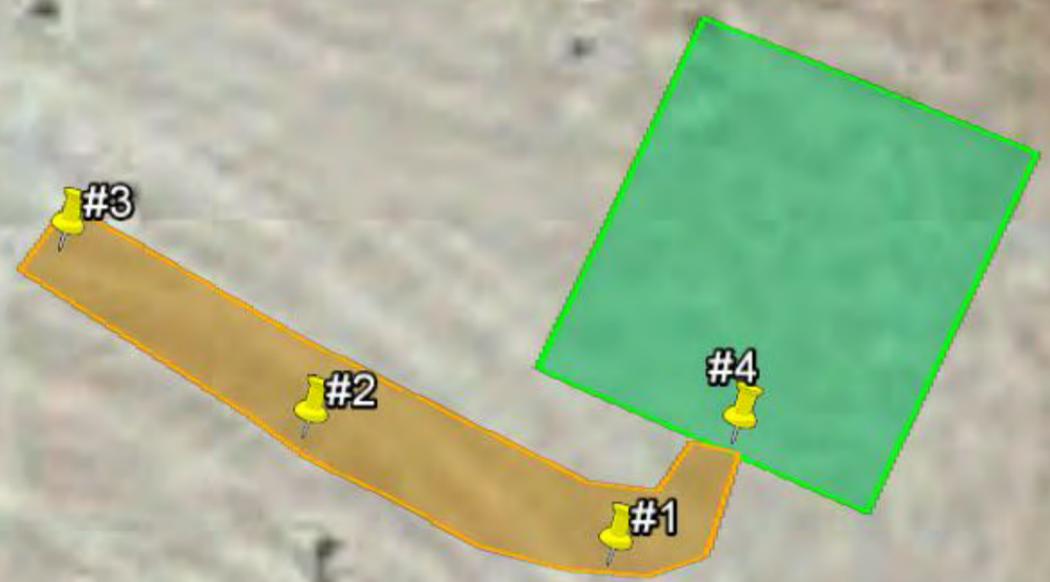
After excavating the affected caliche pad to a depth of 3"-6" soil samples were collected to confirm the removal of contamination. The second map shows the locations of the samples collected.

Sample Locations			
Diagram ID	Analytical Report Sample ID(s)	Depth	Comments
#1	H600821-01	0'	These samples were collected from the eastern edge of the affected area which was 4' wide by 40' long.
	H600821-02	1'	
#2	H600821-3	0'	These samples were collected from the center point of the affected area, approximately 20' from the eastern edge.
	H600821-4	1'	
#3	H600821-5	0'	These samples were collected from the western edge of the affected area.
	H600821-6	1'	
#4	H600821-7	0'	These samples were collected at the point where the containment failed and released liquids onto the pad.
	H600821-8	1'	



Frac Cat

Google earth



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 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 207916

CONDITIONS

Operator: Lucid Artesia Company 201 S. Fourth Street Artesia, NM 88210	OGRID: 147831
	Action Number: 207916
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	4/17/2023