From: <u>Jim Nance</u>

To: <u>Bratcher, Mike, EMNRD</u>

Cc: Juaguin Robles; Raymond Dodd; Brent Talbot; djferguson@eprod.com; Billings, Bradford, EMNRD; Patterson,

Heather, EMNRD; Collin Strawn

Subject: FW: Toothman Site Status

Date: Wednesday, March 09, 2016 11:40:06 AM

Attachments: Toothman Pit sample full report 20160224.pdf
Toothman Tank Site Samples 20151210.pdf

Mr. Bratcher,

Finley Resources is continuing to work with Enterprise on the Toothman site. I have just last night received an analysis of water contained in the open pit and we have seen some observable improvement in the accumulation of sheen or hydrocarbon on the water surface. With that in mind, we have recommended the procedure below to Enterprise as an initial step in the process for investigating and determining procedures going forward for the site. I would appreciate your comments regarding this change in the scope of investigation. Additionally, I have appended the reports from Cardinal Lab regarding the water sample taken in February and the soil samples (TraceAnalysis) originally taken by FRI underneath the tanks within the FRI portion of the berm.

Thanks,

JIM

From: Jim Nance

Sent: Wednesday, March 09, 2016 12:22 PM

To: djferguson@eprod.com **Subject:** Toothman Site Status

Dina,

Thanks for taking my call this morning. Per our discussion by phone today, it appears that we are seeing some improvement in the water quality that is accumulating in the open pit at the subject site. Appended for your review is an analysis of the water taken from the inside corner of the pit (SE corner of the berm tank area) at a sample depth of 6" below the surface of the water. Although solids exist in the results, no significant HC's were recorded, unless I am misinterpreting the report. Please let me know if you see it differently. Also appended is the report from December where we "rough cut" sampled under the FRI tank vessel site to an approximate depth of 8'. This report was not specific to New Mexico requirements and simply serves to demonstrate that some HC 's are in evidence.

Although Enterprise has gained approval for monitoring wells from the State Engineer's office as was discussed in the meeting with the OCD in Artesia, Finley recommends, with NMOCD approval, employing a specific process for continuing to remove waters from the pit according to the following procedure:

For a period 3 to 6 months, at the OCD's discretion and at each point in time where at least 1 foot of accumulation has occurred in the pit:

- 1) Make and document a visual observation of the sheen or saturation observed at the site
- 2) Obtain a water sample for analysis at a consistent location in the pit (such as the location used above) and publish report to the appropriate parties
- 3) Utilize absorbent pad or equivalent materials to pick up as much sheen or surface HC occurring on the surface of the water as practical
- 4) Remove as much water to deliver to disposal as practical given the physical conditions
- 5) Repeat steps 1-4 as necessary during the approved period

At the end of the approved specified period, if insufficient progress or improvement in the status of the site has occurred to satisfy agency requirements, preparation then can be made to move forward with further delineation efforts as previously described and documented. It would be helpful to get a scope of how much water has been removed from the pit to determine if such procedure above will be practical in improving conditions at the site. By separate email, I will be sending a copy of this proposal to Mr. Mike Bratcher, NMOCD to get his insights on this change is scope of the process. I will copy you with that communication. This proposal is subject to a cost sharing agreement with Enterprise and does not seek to establish determination of ultimate responsibilities in this matter.

Thanks,

JIM



March 08, 2016

RAYMOND DODD

FINLEY RESOURCES INC.

1308 LAKE STREET

FORT WORTH, TX 76102

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 02/24/16 12:30.

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/ga/lab accredited acc

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

FINLEY RESOURCES INC.

1308 LAKE STREET FORT WORTH TX, 76102 Project: WATER SAMPLES

Project Number: TOOTHMON
Project Manager: RAYMOND DODD

Fax To: (817) 336-1709

Reported:

08-Mar-16 15:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
TOOTHMON A	H600412-01	Water	24-Feb-16 09:30	24-Feb-16 12:30	

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 are 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 damage including, without limitation, business interruptors, 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 sur 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.

Celeg & treens

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



Analytical Results For:

FINLEY RESOURCES INC. 1308 LAKE STREET FORT WORTH TX, 76102 Project: WATER SAMPLES
Project Number: TOOTHMON

Project Manager: RAYMOND DODD

Fax To: (817) 336-1709

Reported:

08-Mar-16 15:19

TOOTHMON A H600412-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborato	ories					
Inorganic Compounds	-					7				
Alkalinity, Bicarbonate	488	-	5.00	mg/L	1	6021206	AP	26-Feb-16	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	6021206	AP	26-Feb-16	310.1	
Chloride*	5300		4.00	mg/L	1	6021909	AP	25-Feb-16	4500-CI-B	
Conductivity*	17100		0.250	uS/cm	1	6022505	AP	25-Feb-16	120.1	
pH*	7.68		0.100	pH Units	1	6022504	AP	25-Feb-16	150.1	
Resistivity	0.0580			Ohms/m	1	6022505	AP	25-Feb-16	120.1	
Sulfate*	4340		1250	mg/L	125	6022503	AP	25-Feb-16	375.4	
TDS*	15500		5.00	mg/L	1	6021503	AP	01-Mar-16	160.1	
Alkalinity, Total*	400		4.00	mg/L	1	6021206	AP	26-Feb-16	310.1	
			Green Ana	lytical Labo	oratories					
Total Recoverable Metals by I	CP (E200.7)									
Calcium*	766		0.200	mg/L	10	B603002	JLM	01-Mar-16	EPA200.7	
Magnesium*	1020		1.00	mg/L	10	B603002	JLM	01-Mar-16	EPA200.7	
Potassium*	72.3		10.0	mg/L	10	B603002	JLM	01-Mar-16	EPA200.7	
Sodium*	2950		10.0	mg/L	10	B603002	JLM	01-Mar-16	EPA200.7	

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 ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirtiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 suc 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.

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9



Analytical Results For:

FINLEY RESOURCES INC. 1308 LAKE STREET FORT WORTH TX, 76102

Project: WATER SAMPLES Project Number: TOOTHMON Project Manager: RAYMOND DODD

Reported: 08-Mar-16 15:19

Fax To: (817) 336-1709

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021206 - General Prep - Wet Chem										
Blank (6021206-BLK1)				Prepared:	12-Feb-16 A	Analyzed: 1	5-Feb-16			
Alkalinity, Carbonate	ND	0.00	mg/L							
Alkalinity, Bicarbonate	ND	5.00	mg/L							
Alkalinity, Total	ND	4.00	mg/L							
LCS (6021206-BS1)				Prepared:	12-Feb-16 A	Analyzed: 1	15-Feb-16			
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	126	5.00	mg/L				80-120			
Alkalinity, Total	104	4.00	mg/L	100		104	80-120			
LCS Dup (6021206-BSD1)				Prepared:	12-Feb-16 A	Analyzed: 1	15-Feb-16			
Alkalinity, Carbonate	ND	0.00	mg/L				80-120		20	-
Alkalinity, Bicarbonate	131	5.00	mg/L				80-120	3.89	20	
Alkalinity, Total	108	4.00	mg/L	100		108	80-120	3.77	20	
Batch 6021503 - Filtration										-
Blank (6021503-BLK1)				Prepared:	15-Feb-16 A	Analyzed:	16-Feb-16			
TDS	ND	5.00	mg/L							
LCS (6021503-BS1)				Prepared:	15-Feb-16 A	Analyzed:	16-Feb-16			
TDS	518	5.00	mg/L	527	:	98.3	80-120			
Duplicate (6021503-DUP1)	Sou	rce: H600326	-01	Prepared:	15-Feb-16 A	Analyzed:	16-Feb-16			
TDS	8880	5.00	mg/L		8800		-	0.995	20	
Batch 6021909 - General Prep - Wet Chem										
Blank (6021909-BLK1)	. 10			Prepared &	& Analyzed	: 19-Feb-10	5			
Chloride	ND	4.00	mg/L							

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 are 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 damage 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 suc 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.

Celegit treena-

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

FINLEY RESOURCES INC. 1308 LAKE STREET FORT WORTH TX, 76102 Project: WATER SAMPLES
Project Number: TOOTHMON
Project Manager: RAYMOND DODD

Fax To: (817) 336-1709

HMON 08-Mar-16 15:19
DND DODD

Reported:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6021909 - General Prep	- Wet Chem						1				
LCS (6021909-BS1)					Prepared &	: Analyzed:	19-Feb-16			ACCOMMENTAL STREET, ST	
Chloride		100	4.00	mg/L	100		100	80-120			,
LCS Dup (6021909-BSD1)					Prepared &	Analyzed:	19-Feb-16				
Chloride	7	100	4.00	mg/L	100		100	80-120	0.00	20	
Batch 6022503 - General Prep	- Wet Chem										
Blank (6022503-BLK1)					Prepared &	: Analyzed:	25-Feb-16				
Sulfate		ND	10.0	mg/L			15			w	
LCS (6022503-BS1)					Prepared &	Analyzed:	25-Feb-16				
Sulfate		20.9	10.0	mg/L	20.0		105	80-120			
LCS Dup (6022503-BSD1)					Prepared &	Analyzed:	25-Feb-16				
Sulfate		21.3	10.0	mg/L	20.0		106	80-120	1.61	20	
Batch 6022504 - General Prep	- Wet Chem							#154-0078 belleves (brack&Map. 6:00)		400000000000000000000000000000000000000	
LCS (6022504-BS1)					Prepared &	Analyzed:	25-Feb-16				
рН		7.08		pH Units	7.00		101	90-110			***
Duplicate (6022504-DUP1)	3.	Sou	rce: H600412-0)1	Prepared &	Analyzed:	25-Feb-16				
pН		7.73	0.100	pH Units		7.68		-	0.649	20	
Batch 6022505 - General Prep	- Wet Chem										
LCS (6022505-BS1)					Prepared &	k Analyzed:	25-Feb-16				
Conductivity	: .	486	-	uS/cm	500	:	97.2	80-120			

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 are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thin; (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 sur 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 Laborationes.

Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9



Analytical Results For:

FINLEY RESOURCES INC.

1308 LAKE STREET FORT WORTH TX, 76102 Project: WATER SAMPLES

Project Number: TOOTHMON
Project Manager: RAYMOND DODD

Fax To: (817) 336-1709

Reported:

08-Mar-16 15:19

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6022505 - General Prep - Wet Chem

Duplicate (6022505-DUP1)	Source	: H600412	-01	Prepared &	Analyzed: 25-Feb-16			
Conductivity	17500	0.250	uS/cm	-:	17100	1.85	20	_
Resistivity	0.0570		Ohms/m		0.0580	1.74	200	

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 ar 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 damage including, without limitation, business interruptons, 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 succlaim 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 T. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



%REC

Analytical Results For:

FINLEY RESOURCES INC.

1308 LAKE STREET FORT WORTH TX, 76102 Project: WATER SAMPLES

Project Number: TOOTHMON
Project Manager: RAYMOND DODD

Fax To: (817) 336-1709

Spike

Reported:

08-Mar-16 15:19

RPD

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Reporting

Analyte			Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B6030	02 - EPA 200.2 To	otal Rec.									Mary Mary Mary Mary Mary Mary Mary Mary	
Blank (B6030	02-BLK1)					Prepared &	k Analyzed:	01-Mar-16	i			
Calcium			ND	0.020	mg/L	·						14
Magnesium			ND	0.100	mg/L							
Sodium			ND	1.00	mg/L							
Potassium			ND	1.00	mg/L							
LCS (B603002	2-BS1)					Prepared &	k Analyzed:	01-Mar-16				
Calcium			4.16	0.020	mg/L	4.00		104	85-115			
Sodium			6.72	1.00	mg/L	6.48		104	85-115			
Magnesium			20.6	0.100	mg/L	20.0		103	85-115			
Potassium			8.25	1.00	mg/L	8.00		103	85-115			
LCS Dup (B6	03002-BSD1)					Prepared &	& Analyzed:	01-Mar-16				
Magnesium			20.9	0.100	mg/L	20.0		104	85-115	1.44	20	
Calcium			4.22	0.020	mg/L	4.00		106	85-115	1.51	20	
Potassium			8.33	1.00	mg/L	8.00		104	85-115	0.909	20	
Sodium			6.75	1.00	mg/L	6.48		104	85-115	0.477	20	

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 are any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirtiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 success 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.

Celeg & Kreena

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9

ND



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

Notes and Definitions

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 $% \left\{ 1,2,,n\right\}$

Analyte NOT DETECTED at or above the reporting limit

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 are 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 damage 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 claims 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.

Celeg E Kreina

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

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

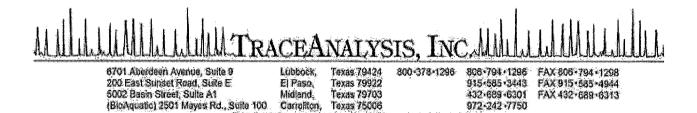
i de



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Page 9 of 9



Certifications

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Derek Plunkett Plunkett Energy Service Co. 9723 Hwy 62/82 P. O. Box 910 Wolfforth, TX, 79382

Report Date: December 15, 2015

Work Order: 15121116

Project Location: Carlsbad, NM
Project Name: Toothman #1
Project Number: Toothman #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
410089	#1 E Tank 1 Surface	soil	2015-12-10	10:45	2015-12-11
410090	#1 W Tank 2 Surface	soil	2015-12-10	10:45	2015-12-11
410091	#1 E Tank 1 8"	soil	2015-12-10	10:50	2015-12-11
410092	#1 W Tank 2 8"	soil	2015-12-10	10:55	2015-12-11
410093	#1 E Tank 1 5'6"	soil	2015-12-10	11:00	2015-12-11
410094	#1 W Tank 2 5'6"	soil	2015-12-10	11:05	2015-12-11
410095	#1 E of Tanks (1) 4'	soil	2015-12-10	11:20	2015-12-11
410096	#1 E of Tanks (2) berm 6'	soil	2015-12-10	11:30	2015-12-11
410097	#1 E of Tanks (2) berm 8'	soil	2015-12-10	11:45	2015-12-11

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company, sampler, contacts and any special remarks.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

Case Narrative	4
Analytical Report Sample 410089 (#1 E Tank 1 Surface) Sample 410090 (#1 W Tank 2 Surface) Sample 410091 (#1 E Tank 1 8") Sample 410092 (#1 W Tank 2 8") Sample 410093 (#1 E Tank 1 5'6") Sample 410094 (#1 W Tank 2 5'6") Sample 410095 (#1 E of Tanks (1) 4') Sample 410096 (#1 E of Tanks (2) berm 6')	5 5 5 5 6 6 7 7 8
Method Blanks QC Batch 126942 - Method Blank (1)	8 9 9
Laboratory Control Spikes 1 QC Batch 126942 - LCS (1) 1 QC Batch 126947 - LCS (1) 1	
Matrix Spikes 1 QC Batch 126942 - MS (1) 1 QC Batch 126947 - MS (1) 1	
Calibration Standards 1 QC Batch 126942 - CCV (1) 1 QC Batch 126942 - CCV (2) 1 QC Batch 126947 - CCV (1) 1 QC Batch 126947 - CCV (2) 1	14 14
Appendix Report Definitions Laboratory Certifications Standard Flags Attrohymorts	16 16

Case Narrative

Samples for project Toothman #1 were received by TraceAnalysis, Inc. on 2015-12-11 and assigned to work order 15121116. Samples for work order 15121116 were received intact at a temperature of 10.1 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	$_{ m QC}$	Analysis
Test	Method	Batch	Date	Batch	Date
TX1005 Extended	TX1005	107430	2015-12-11 at 14:00	126942	2015-12-14 at 09:50
TX1005 Extended	TX1005	107435	2015-12-14 at 08:00	126947	2015-12-14 at 12:19

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15121116 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Toothman #1

Work Order: 15121116 Toothman #1 Page Number: 5 of 17 Carlsbad, NM

Analytical Report

Sample: 410089 - #1 E Tank 1 Surface

Laboratory:

Lubbock

Analysis:

TX1005 Extended

QC Batch: Prep Batch: $\frac{126942}{107430}$

Analytical Method:

TX1005

Prep Method: N/A Analyzed By: HJ

Date Analyzed: Sample Preparation:

2015-12-14 2015-12-11 Analyzed By: HJ Prepared By: HJ

RLFlag Parameter Cert Result Units Dilution RLC6-C12 2990 mg/Kg 40 50.0 >C12-C35 68600 mg/Kg 40 50.0

							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	Qsr	Qsr		858	mg/Kg	40	25.0	3432	59.5 - 171
n-Octane	Qsr	Qsr		0.00	mg/Kg	40	25.0	0	56.2 - 143
n-Tricosane	Qsr	Qsr		5490	mg/Kg	40	25.0	21960	57.2 - 161

Sample: 410090 - #1 W Tank 2 Surface

Laboratory:

Lubbock

Analysis: QC Batch: TX1005 Extended

QC Batch: 126947 Prep Batch: 107435 Analytical Method: Date Analyzed:

Sample Preparation:

TX1005 2015-12-14 2015-12-14

Units

Prep Method: N/A Analyzed By: HJ Prepared By: HJ

RL

Dilution

 Parameter
 Flag
 Cert
 Result

 C6-C12
 1
 2040

mg/Kg 10 50.0 >C12-C35 5310 mg/Kg 10 50.0 Spike Percent Recovery Surrogate Flag Cert Units Dilution Result Amount Recovery Limits

n-Triacontane 79.2mg/Kg 10 25.0 317 59.5 - 171 Qsr Qsr n-Octane 54.5mg/Kg 10 25.0 218 56.2 - 143 Qsr Qsr n-Tricosane 341 mg/Kg 10 25.0 1364 57.2 - 161 Qsr Qsr

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 6 of 17

Carlsbad, NM

Sample: 410091 - #1 E Tank 1 8"

Laboratory:

Lubbock

Analysis: QC Batch: TX1005 Extended

126942 Prep Batch: 107430

Analytical Method: Date Analyzed:

Sample Preparation:

TX1005 2015-12-14

2015-12-11

Analyzed By:

Prep Method: N/A HJ

Prepared By:

HJ

RL

Parameter Flag Cert Result Dilution Units RLC6-C12 3820 mg/Kg 50.0 1 >C12-C35 2500mg/Kg 50.0 1 1

							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane	Qsr	Qsr		69.1	mg/Kg	1	25.0	276	59.5 - 171
n-Octane	Qsr	Qsr		154	mg/Kg	1	25.0	616	56.2 - 143
n-Tricosane	Qsr	Qsr		166	mg/Kg	1	25.0	664	57.2 - 161

Sample: 410092 - #1 W Tank 2 8"

Laboratory: Lubbock

Analysis: QC Batch:

Prep Batch:

TX1005 Extended

126942

107430

Analytical Method: Date Analyzed:

Sample Preparation:

TX1005

2015-12-14 2015-12-11

Prep Method: N/A

Analyzed By: HJPrepared By: HJ

RLFlag Parameter Dilution Cert Result Units RLC6-C12 536 mg/Kg 50.0 1 1 >C12-C35 933 mg/Kg 1 50.0

Flag	Cont						
0	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Qsr		55.4	mg/Kg	1	25.0	222	59.5 - 171
Qsr		41.5	$_{ m mg/Kg}$	1	25.0	166	56.2 - 143
Qsr		83.0	mg/Kg	1	25.0	332	57.2 - 161
	Qsr Qsr	Qsr Qsr	Qsr 55.4 Qsr 41.5	Qsr 55.4 mg/Kg Qsr 41.5 mg/Kg	Qsr 55.4 mg/Kg 1 Qsr 41.5 mg/Kg 1	Qsr 55.4 mg/Kg 1 25.0 Qsr 41.5 mg/Kg 1 25.0	Qsr 55.4 mg/Kg 1 25.0 222 Qsr 41.5 mg/Kg 1 25.0 166

Sample: 410093 - #1 E Tank 1 5'6"

Laboratory: Lubbock

Analysis:

TX1005 Extended

QC Batch: 126942 Prep Batch: 107430 Analytical Method: Date Analyzed:

Sample Preparation:

TX1005 2015-12-14 2015-12-11 Prep Method: N/A Analyzed By: HJ

Prepared By: HJ

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 7 of 17 Carlsbad, NM

			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
C6-C12		1	2670	mg/Kg	1	50.0
>C12-C35		1	1190	mg/Kg	1	50.0

							Spike	$\operatorname{Percent}$	Recovery
Surrogate		Flag	Cert	Result	\mathbf{Units}	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane				42.7	mg/Kg	1	25.0	171	59.5 - 171
n-Octane	Qsr	Qsr		134	mg/Kg	1	25.0	536	56.2 - 143
n-Tricosane	Qsr	Qsr		62.5	mg/Kg	1	25.0	250	57.2 - 161

Sample: 410094 - #1 W Tank 2 5'6"

Laboratory: Lubbock

Analysis: TX1005 Extended QC Batch: 126942 Prep Batch: 107430

Analytical Method:

Sample Preparation:

Date Analyzed:

TX1005 2015-12-14 2015-12-11

Prep Method: N/A Analyzed By: HJPrepared By: HJ

RLParameter Flag Cert Result Units Dilution RLC6-C12 2300 mg/Kg 50.0 1 1 >C12-C35 1460 mg/Kg 1 50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Qsr	Qsr	11.0	47.0	mg/Kg	1	25.0	188	59.5 - 171
n-Octane	Qsr	Qsr		87.7	$_{ m mg/Kg}$	1	25.0	35 1	56.2 - 143
n-Tricosane	Qsr	Qsr		72.4	mg/Kg	1	25.0	290	57.2 - 161

Sample: 410095 - #1 E of Tanks (1) 4'

Laboratory: Lubbock

Analysis: TX1005 Extended QC Batch: 126947 Prep Batch: 107435

Analytical Method: Date Analyzed: Sample Preparation:

TX1005 2015-12-14 2015-12-14 Prep Method: N/A Analyzed By: HJPrepared By: HJ

RLParameter Flag Cert Result Units Dilution RLC6-C12 52.1 mg/Kg 50.0 1 >C12-C35 < 50.0 mg/Kg 1 50.0

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 8 of 17 Carlsbad, NM

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			26.4	mg/Kg	1	25.0	106	59.5 - 171
n-Octane			24.1	mg/Kg	1	25.0	96	56.2 - 143
n-Tricosane			27.1	mg/Kg	1	25.0	108	57.2 - 161

Sample: 410096 - #1 E of Tanks (2) berm 6'

Laboratory:

Lubbock

Analysis: QC Batch: TX1005 Extended

126942 Prep Batch: 107430 Analytical Method:

Sample Preparation:

Date Analyzed:

TX1005 2015-12-14 2015-12-11 Prep Method: N/A

Analyzed By: HJPrepared By: HJ

RLParameter Flag CertResult UnitsDilution RLC6-C12 1240 50.0 1 mg/Kg >C12-C35 418 mg/Kg 1 50.0

							Spike	$\operatorname{Percent}$	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane				29.4	mg/Kg	1	25.0	118	59.5 - 171
n-Octane	Qsr	Qsr		82.1	mg/Kg	1	25.0	328	56.2 - 143
n-Tricosane	Qsr	Qsr		41.3	mg/Kg	1	25.0	165	57.2 - 161

Sample: 410097 - #1 E of Tanks (2) berm 8'

Laboratory: Lubbock

Analysis:

TX1005 Extended

QC Batch: Prep Batch:

126942 107430 Analytical Method: Date Analyzed:

TX1005

2015-12-14 2015-12-11

Prep Method: N/A

Analyzed By: HJPrepared By: HJ

RLParameter Flag Cert Result ${\bf Units}$ Dilution RLC6-C12 $\overline{1580}$ mg/Kg 50.0 1 >C12-C35 324 mg/Kg 1 50.0

Sample Preparation:

Surrogate		Flag	Cert	Result	Units	Dilution	Spike	Percent	Recovery Limits
Surrogate		riag	Cert	resun	Omis	Ditubion	Amount	Recovery	Limits
n-Triacontane				30.0	mg/Kg	1	25.0	120	59.5 - 171
n-Octane	$_{\mathrm{Qsr}}$	Qsr		125	$_{ m mg/Kg}$	1	25.0	500	56.2 - 143
n-Tricosane				36.2	mg/Kg	1	25.0	145	57.2 - 161

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 9 of 17 Carlsbad, NM

Method Blanks

Method Blank (1)

QC Batch: 126942

QC Batch:

126942

Date Analyzed:

2015-12-14

Analyzed By: HJ

Prep Batch: 107430

QC Preparation:

2015-12-11

Prepared By: HJ

MDL Parameter Flag Cert Result

Units RLC6-C12 < 5.43 mg/Kg 50 1 >C12-C35 < 10.7mg/Kg 50

~						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane			23.4	mg/Kg	1	25.0	94	59.5 - 171
n-Octane			20.8	mg/Kg	1	25.0	83	56.2 - 143
n-Tricosane			23.3	mg/Kg	1	25.0	93	57.2 - 161

Method Blank (1)

QC Batch: 126947

QC Batch:

126947

Date Analyzed:

2015-12-14

Analyzed By: HJ

Prep Batch:

107435

QC Preparation:

2015-12-14

Prepared By: HJ

MDL Parameter Flag Cert Result Units RLC6-C12 < 5.43 mg/Kg 50 >C12-C35 <10.7 mg/Kg 50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
	1 145	0010	TCGCII	Omto	Dilution	Amount	recovery	
n-Triacontane			21.0	mg/Kg	1	25.0	84	59.5 - 171
n-Octane			24.2	$_{ m mg/Kg}$	1	25.0	97	56.2 - 143
n-Tricosane			25.5	$_{ m mg/Kg}$	1	25.0	102	57.2 - 161

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 10 of 17 Carlsbad, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:

126942

Date Analyzed:

2015-12-14

Analyzed By: HJ

Prep Batch: 107430

QC Preparation: 2015-12-11

Prepared By:

LCS Spike Matrix Rec. F Param Result Units Dil. Amount Result Rec. Limit C6-C12 560 mg/Kg 500 < 5.43 112 59.5 - 125 >C12-C35 414mg/Kg 1 500 < 10.783 59.2 - 132

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
C6-C12		1	507	mg/Kg	1	500	< 5.43	101	59.5 - 125	10	20
>C12-C35		1	418	mg/Kg	1	500	<10.7	84	59.2 - 132	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			$_{ m Spike}$	LCS	LCSD	Rec .
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	22.7	23.2	mg/Kg	1	25.0	91	93	59.5 - 171
n-Octane	30.1	26.4	$_{ m mg/Kg}$	1	25.0	120	106	56.2 - 143
n-Tricosane	25.9	26.1	mg/Kg	1	25.0	104	104	57.2 - 161

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 107435

126947

Date Analyzed: QC Preparation:

2015-12-14

2015-12-14

Analyzed By: HJ

Prepared By: HJ

			LCS			Spike	Matrix		Rec.
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
C6-C12		1	469	mg/Kg	1	500	< 5.43	94	59.5 - 125
>C12-C35		1	379	mg/Kg	1	500	<10.7	76	59.2 - 132

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	$^{\mathrm{C}}$	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
C6-C12		1	471	mg/Kg	1	500	< 5.43	94	59.5 - 125	0	20
>C12-C35		1	404	mg/Kg	11	500	<10.7	81	59.2 - 132	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 15121116 Toothman #1 Page Number: 11 of 17 Carlsbad, NM

Toothman #1

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	19.5	20.2	mg/Kg	1	25.0	78	81	59.5 - 171
n-Octane	24.9	26.7	mg/Kg	1	25.0	100	107	56.2 - 143
n-Tricosane	25.2	25.7	$_{ m mg/Kg}$	1	25.0	101	103	57.2 - 161

Toothman #1

Work Order: 15121116 Toothman #1

Page Number: 12 of 17 Carlsbad, NM

Matrix Spikes

Matrix Spike (MS-1)

Spiked Sample: 410097

QC Batch:

126942

Date Analyzed:

2015-12-14

Analyzed By: HJ

Prep Batch: 107430

QC Preparation: 2015-12-11

Prepared By:

			MS			Spike	Matrix		Rec.
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
C6-C12		1	2160	mg/Kg	1	500	1580	116	24.1 - 166
>C12-C35		1	803	mg/Kg	1	500	324	96	27.1 - 170

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
C6-C12		1	2180	mg/Kg	1	500	1580	120	24.1 - 166	1	20
>C12-C35		1	804	mg/Kg	1	500	324	96	27.1 - 170	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate			MS Result	MSD Result	Units	Dil.	$rac{ ext{Spike}}{ ext{Amount}}$	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane			30.4	30.4	mg/Kg	1	25	122	122	59.5 - 171
n-Octane	Qsr	Qsr	129	129	mg/Kg	1	25	516	516	56.2 - 143
n-Tricosane			37.5	39.2	mg/Kg	1	25	150	157	57.2 - 161

Matrix Spike (MS-1)

Spiked Sample: 410095

QC Batch: Prep Batch: 107435

126947

Date Analyzed:

2015-12-14

QC Preparation: 2015-12-14

Analyzed By: HJ

Prepared By: HJ

			MS			Spike	Matrix		Rec.
Param	F	C	Result	${ m Units}$	Dil.	Amount	Result	Rec.	Limit
C6-C12	•	1	599	mg/Kg	1	500	52.1	109	24.1 - 166
>C12-C35		1	461	mg/Kg	1	500	44.4	83	27.1 - 170

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MSD			Spike	Matrix		Rec.		RPD
Param	F	C	Result	Units	Dil.	Amount	Result	Rec.	${f Limit}$	RPD	Limit
C6-C12		1	602	mg/Kg	1	500	52.1	110	24.1 - 166	0	20
>C12-C35		1	450	mg/Kg	1	500	44.4	81	27.1 - 170	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Work Order: 15121116 Toothman #1 Page Number: 13 of 17 Carlsbad, NM

Toothman #1

Surrogate n-Triacontane n-Octane n-Tricosane

MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
25.9	25.1	mg/Kg	1	25	104	100	59.5 - 171
28.0	27.8	mg/Kg	1	25	112	111	56.2 - 143
30.8	29.9	mg/Kg	1	25	123	120	57.2 - 161

Toothman #1

Work Order: 15121116 Toothman #1 Page Number: 14 of 17 Carlsbad, NM

Calibration Standards

Standard (CCV-1)

QC Batch: 126942

Date Analyzed: 2015-12-14

Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
C6-C12		1	mg/Kg	500	466	93	75 - 125	2015-12-14
>C12-C35		1	$_{ m mg/Kg}$	500	403	81	75 - 125	2015-12-14

Standard (CCV-2)

QC Batch: 126942

Date Analyzed: 2015-12-14

Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
C6-C12		1	mg/Kg	500	501	100	75 - 125	2015-12-14
>C12-C35		1	mg/Kg	500	447	89	75 - 125	2015-12-14

Standard (CCV-1)

QC Batch: 126947

Date Analyzed: 2015-12-14

Analyzed By: HJ

				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
C6-C12	•	1	mg/Kg	500	466	93	75 - 125	2015-12-14
>C12-C35		1	mg/Kg	500	389	78	75 - 125	2015-12-14

Standard (CCV-2)

QC Batch: 126947

Date Analyzed: 2015-12-14

Analyzed By: HJ

Work Order: 15121116

Page Number: 15 of 17 Carlsbad, NM

Toothman #1

Toothman #1

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
C6-C12		1	mg/Kg	500	482	96	75 - 125	2015-12-14
>C12-C35		1	mg/Kg	500	399	80	75 - 125	2015-12-14

Toothman #1

Work Order: 15121116 Toothman #1 Page Number: 16 of 17 Carlsbad, NM

Appendix

Report Definitions

Name	Definition
$\overline{ ext{MDL}}$	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

Attachments

Report Date: December 15, 2015 Toothman #1 Work Order: 15121116 Toothman #1 Page Number: 17 of 17 Carlsbad, NM

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

		·····			53 A1			PlöH					ŀ			 I		T	T İ			****	29 oj
508 508 508			bísb	nete r	non h	nenettik) Il əmi	Turn Around T	1	 .	ļ_		ļ.,			5					K	2 6	3
Brandon & Clark 3403 Industrial Blvd. Hobbs, NM 88240. Tel (575) 392-7561 Fax (575) 392-4508											1		1	1	1				_		E.		"[[[
don , ndust s, NI 75) 3 75) 3									ļ	ļ	-											3 8	5
103 li 10bb 10bb 10bb	2	<u> </u>	······································						-	-	<u> </u>	ļ	<u> </u>			i			_		£ 5		
9	ł				***************************************			Na, Ca, Mg, K	1		-	-	<u> </u>					-	\dashv	u		Dry Weight Basis Required TRRP Report Required Check If Special Reporting Limits Are Needed	3
	LYSIS REQUEST	<u> </u>	kalinit	IA ,9-	<u>, PO₄</u>	N- <u>s</u> OV	1 ,N- ₈ (Z	8 :	\$ 'E	3
BioAquatic Testing 2501 Mayes Rd., Ste 100 Garroliton, Texas 75006 Tel (972) 242-7750	ANALYSIS REQUEST	j –			***************************************			BOD, TSS, pl Molsture Cont	-	 	ļ	 								Standard	contains	p 50	4
Ste Ste 38 7:	2 =	= -		·····		8	*************	Pesticides 808	+		<u> </u>	<u> </u>						\dashv		Ž	7	Dry Weight Basis Required TRRP Report Required Check If Special Reporting Limits Are Needed	
s Rd S Rd 1 242	Ø (<u> </u>			***************************************			PCB's 8082 /												$\tilde{\mathcal{T}}_{o}$	ව	Dry Weight Basis Requ TRRP Report Required Check If Special Report Limits Are Needed	
Maye Maye (972	S	ў —		······	52			GC/MS Semi.	_	ļ		ļ	<u> </u>							n CO		t Ba port F	
2507 Fig. 2507	30				····	,,,,	or you	RCI	+-	-	-	-					-			žŲ.		Neigl P Re	4
(40	Z C	3 <u> </u>						TCLP Pesticid										\dashv		PPC S		15 H 5	1
ш		<u> </u>						TCLP Semi Vo														500	12 Jan
7.2 mile) =	Б	1.95	Ct Pb	ga Cq		TCLP Metals A	-	-	ļ							_		Щ.	٤	$Y \subseteq Y$	R
494 3443 3443	C	<u> </u>						. gA alaiaM latoT	1	-	<u> </u>	-						\dashv		šį	a }	3	6
Set R 685-585-588-38				······	2.0.1			PAH 8270 / 63													O	Log-in-Raview	M
(915) (915) (915) (915)			(6	xt(C3	<u>√HC</u> 002 E			T \ 1.814 H9T AD 8108 H9T	250	2	×	<u>بحر</u>	×	×			3.0	-				The second second second	1 1
20 East Sunset Rd., Suite, E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944. 1 (888) 588-3443			No. St.		**********			8TEX 8021 /	100	-					×	<i>></i> ~	×				100	Jan P	Carrier #
200			1		/ 6 24	0928/	709 /	NTBE 8021											\dashv			A	11 1
			12	1		i	9	3MIT	22	芫	000	55	00	11:05	30	(1):30	J.		1014	OBS.	INST OBS	S S S S S S S S S S S S S S S S S S S	
A A			100	60,	W		SAMPLING	*******	£0:45	20:45	6:50	2	00',11		11.20		=		*	= 0 0			
5313	M	か	_	5	47		AM	BTA O	20.00	12,10	2 2	12.10	0.0	0	2.12	12:0	2.10			É	Time:		
reet, s xas 689-6	220	078	2	Pin	2	H	- 57		27	2	2	2	2	2.0	<u>5</u>	5	59				F	= ===	1
0002 Basin Street Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313	10		Munkethenevau	plunte Honors	Throwart	M			<u> </u>										╗.			" 克	1
idlar Idlar Tel (300 39 TO	800.089.	=	Ŧ	2	1	PRESERVATIVE METHOD	NONE	-			~			No. of		\ . a		- 2	2	Date	O THE	10
	20	ñ	3	2	15	16/2	ESERVAT METHOD	ICE NgOH	X	×	×	×	メ	×	×	X	×			_		27	o
	è	è	3	2	1 1	Signature	ESE	[†] OS ^z H	-					-						ż	ä	<u>=</u>	de of C.
D D		8	@	(3)	Project Name:	Sig	g.	нио³	†								-				Company:	T mbank	
86.88 86.88 86.88	Phone #	Tax #:	F-maii:	}	ect	Sampler		HCI							T					5	S	\$	on reverse s
Avenue, Suite Texas 79424 794-1296 778-1298 378-1296	ž į	E-1	である。	Sohn	Pro	San			<u> </u>														reve
6701 Aberdeen Avenue, Sui Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296		60		11,			MATRIX	SUIDEE	<u> </u>											ŝ	à	of by:	
25000 25000 261 (8) 282 (8) 1 (80)	2	1882					MAJ	SOIL RIP	×	×	×	×		*	×	_		_	Donoing hu	<u>5</u>	Received by:		₹ \$
23 LT	9	•						A3TAW	-		- 1	3440	×		$\stackrel{\sim}{\rightarrow}$	X	×		- 8		Sece	Rees A	S S
67	Service	12					nunc	mA \ emuloV	 								_	$\neg \dagger$	1		 		id Conditions listed on
	S	Coth							ļ											<u>.</u>	Time:	11.40	ğ Ç
e		43				ŀ	2A:	# CONTAINE	-	شعيبر	Agreets			-			empera		۲	ū	F	= =	san
	3					2	-	~	1,3	Ö	<u> </u>	≅ 80	=	=		3	50					\$	Term
E	È	3				13			13miles	rfac	8 ::	7	5,61	5.6"	J	- 1	5	3	Date	j g	Date:	Date:	2
S.C	S	N				100	h	***	tank	'n	~1	IN F	~ •	3	S	ন্ত্রী	€.8		-	1		-	Į į
		20				544		FIED CODE	Ħ	27.2	E tank-1	7	E tent 1	W Hank 2	31	्य	of (2) & 1	ğ			.	. ±	agreer
an l	क		•			Sate		\0.33 \0.33	m	/ ra	(7)	, #3 ~~1	لنا	3	40	70	46	0	Somon	Š	Company:	Company:	8 2 a
न हैं।	7	E				ding st		N. S.	#	کشید ایستانه	팏	并		7	7	1	-	Ė	į	Ē	E C	발 글	stitut
	Junket Erran	25. 法组		ove)		S		X	an	## 2	SW.	Š	2	ğ	Š	an	五		١)	O	0 \$	COU
4 de			**) abc		ij.		X	th.	r.	<u> </u>	120	<u> </u>	Š	3	NA.	TING TING	ŀ	.	٤		ا ا	bles
ace Analysis, email: lab@traceanalysis.com	g lam	H	rson	fron		atio			Fosthman #1	Tookhman.#1 Whunk 2 surface	Tothraga #1	Forhiwan #1 W Jun 12	Toohman #1	Townwan 14	Tooknan # E fanks ()	Tookwan #1 E funts with	To Hande		1	2 ^{7.} 2	lg bi		sam
race Analysis, email: lab@traceanalysis.co	Company Mame	7	Contact Person	Invoice to: (If different from above)	#	Project Location (including state)		# 60 >	55.0000	28	28	720			AUAU.	7 2	.		Relinguished hv.		Relinquished by:	Relimpuished by:	Submittal of samples constitutes agreement to Terms and Conditions listed
	Company Address:	ָ 2	onta	Invoice to: (If differen	Project #:	ojec		LAB USE)	NDO89	Ö	Ø	පි	징	3	8	B	$ \mathcal{E} $			Í	lingu	1 3	mitt
		a. I.	.T	c ±	10	12				1262	43.16K			-1600			erera l	griff.	17	ī	1 0	19/	!\∺!

Work Order: 15121116

Page Number: 1 of 1

Summary Report

Derek Plunkett Plunkett Energy Service Co. 9723 Hwy 62/82 P. O. Box 910 Wolfforth, TX 79382

Project Location: Project Name:

Carlsbad, NM Toothman #1 Report Date: December 14, 2015

Work Order: 15121116

		()>	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
410089	#1 E Tank 1 Surface	soil Soil	2015-12-10	10:45	2015-12-11
410090	#1 W Tank 2 Surface	soil soil	2015-12-10	10:45	2015-12-11
410091	#1 E Tank 1 8"	soil 🔧	, 2015-12-10 💐	10:50	2015-12-11
410092	#1 W Tank 2 8"	soil	్ 2015-12-10 ్	10:55	2015-12-11
410093	#1 E Tank 1 5'6"	soil	2015-12-10	11:00	2015-12-11
410094	#1 W Tank 2 5'6"	soil	2015-12-10	11:05	2015-12-11
410095	#1 E of Tanks (1) 4'	soil	2015 - 12 - 10	11:20	2015-12-11
410096	#1 E of Tanks (2) berm 6'	soil	2015-12-10	11:30	2015-12-11
410097	#1 E of Tanks (2) berm 8'	soil	2015-12-10	11:45	2015-12-11

	A V ST	
	TX1005 Extended	
	C6-C12	>C12-C35
Sample - Field Code	(mg/Kg)	(mg/Kg)
410089 - #1 E Tank 1 Surface	2990 (p) 3	68600
410091 - #1 E Tank 1 8"	3820	2500
410092 - #1 W Tank 2 8"	536	933
410093 - #1 E Tank 1 5'6"	2670	1190
410094 - #1 W Tank 2 5'6"	2300	1460
410096 - #1 E of Tanks (2) berm 6'	1240	418
410097 - #1 E of Tanks (2) berm 8'	1580	324

TraceAnalysis, Inc. \bullet 6701 Aberdeen Ave., Suite 9 \bullet Lubbock, TX 79424-1515 \bullet (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

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

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

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

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 391936

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	391936
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload.	10/11/2024