



Robert Grubbs Jr.
Senior Environmental Coordinator

November 3, 2015

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

**Re: Tex Mack #202 Tank Battery
30-015-35914
Unit N Sec. 2, T17S-R31E
Eddy County, NM**

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated February 25, 2014.

Background

The release was caused by 1/4" nipple on oil leg corroded and caused leak. 25 bbls of oil were released. Concho was able to recover 20bbls of oil.

COG conducted additional sampling on August 18, 2015 to further identify the areas of contamination with discrete samples.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of **Twenty (0)** due to the depth of groundwater being >300'.

Soil Assessment and Analytical Results

COG sampling results indicate DRO, GRO and CL concentrations within RRALs for a site ranking of zero (0). The tank battery was sampled in three locations for sampling purposes. DRO and GRO concentrations in two sampling areas (AH-1 and AH-3) were elevated for NMOCD's target of 50.0 mg/kg for the remediation of DRO and GRO. COG would like to do a surface scrape in the area of AH-3 due to the minimum impact and the depth of groundwater (see attached site diagram).

Work Plan

COG proposes the following excavation:

AH-1 – Excavate 1'

AH-2 – No Excavation

AH-3 – Surface scrape

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (432) 661-6601.

Sincerely,

Robert Grubbs Jr.

Senior Environmental Coordinator

Enclosed

- (1) C-141 Initial (Copy)
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

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: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Tex Mack #202	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. 30-015-35914
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LOCATION OF RELEASE

Unit Letter N	Section 2	Township 17S	Range 31E	Feet from the 990'	North/South Line South	Feet from the 1650'	East/West Line West	County Eddy
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Latitude 32.8590803868665 Longitude -103.843618143308

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 25 bbls Oil	Volume Recovered: 20 bbls Oil
Source of Release: Heater Treater	Date and Hour of Occurrence: 2/7/2015 9:00 am	Date and Hour of Discovery: 2/7/2015 9:00 am
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

1/4" nipple on oil leg corroded and caused leak. Vacuum trucks were dispatched to recover all standing fluid and micro blaze was applied to the pasture.

Describe Area Affected and Cleanup Action Taken.*

The release occurred within the facility but an over spray in pasture occurred. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

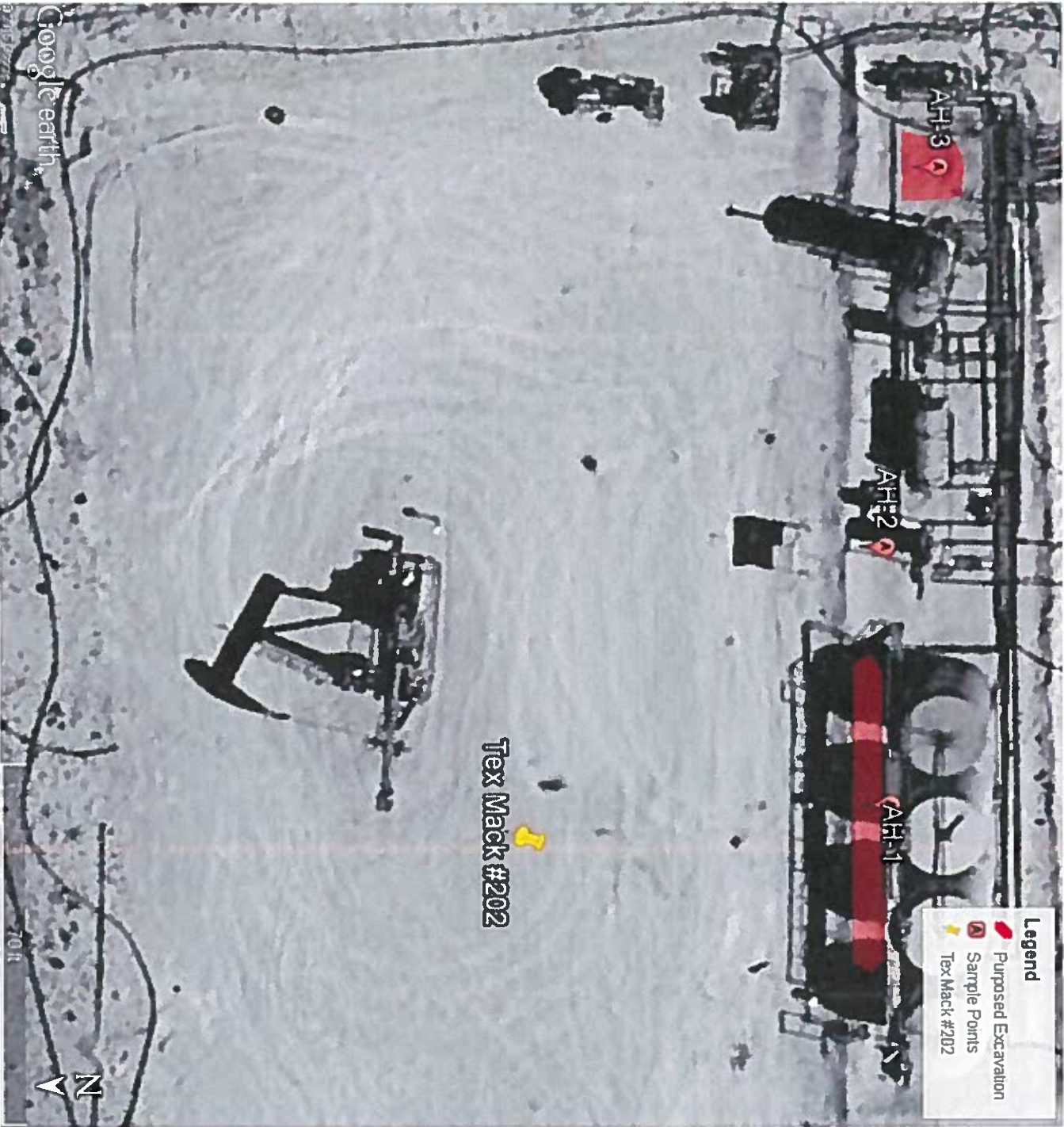
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached ☐
Date: February 25, 2015 Phone: 575-748-6940			

* Attach Additional Sheets If Necessary

November 2, 2015

Tex Mack#202 TB



Site Ranking: Twenty				
Depth to GW per SEO: >100'				
AH-1	DRO	GRO	CI-	
1'	7470	3730	190	
2'	<50.0	<4.00	94	
3'	<50.0	<4.00	<20.0	
4'	<50.0	<4.00	94	
AH-2	DRO	GRO	CI-	
1'	<50.0	<4.00	377	
2'	<50.0	<4.00	189	
3'	<50.0	<4.00	<20.0	
4'	<50.0	<4.00	94	
T3	DRO	GRO	CI-	
1'	55.4	<4.00	849	
2'	<50.0	<4.00	283	
3'	<50.0	<4.00	<20.0	
Bold values exceed RRALs per				



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1296
200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
(BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Robert Grubbs
COG Operating, LLC
550 W. Texas Avenue
Suite 100
Midland, TX, 79701

Report Date: September 2, 2015

Work Order: 15082120



Project Location: Eddy Co, NM
Project Name: Tex-Mac TB
Project Number: Tex-Mac TB

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
402968	AH-1 1'	soil	2015-08-18	00:00	2015-08-21
402969	AH-1 2'	soil	2015-08-18	00:00	2015-08-21
402970	AH-1 3'	soil	2015-08-18	00:00	2015-08-21
402971	AH-1 4'	soil	2015-08-18	00:00	2015-08-21
402972	AH-2 1'	soil	2015-08-18	00:00	2015-08-21
402973	AH-2 2'	soil	2015-08-18	00:00	2015-08-21
402974	AH-2 3'	soil	2015-08-18	00:00	2015-08-21
402975	AH-2 4'	soil	2015-08-18	00:00	2015-08-21
402976	AH-3 1'	soil	2015-08-18	00:00	2015-08-21
402977	AH-3 2'	soil	2015-08-18	00:00	2015-08-21
402978	AH-3 3'	soil	2015-08-18	00:00	2015-08-21

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 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a horizontal line underneath.

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

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Case Narrative

Samples for project Tex-Mac TB were received by TraceAnalysis, Inc. on 2015-08-21 and assigned to work order 15082120. Samples for work order 15082120 were received intact at a temperature of 3.3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	105169	2015-08-24 at 11:25	124374	2015-08-27 at 09:11
Chloride (Titration)	SM 4500-Cl B	105170	2015-08-26 at 11:30	124375	2015-08-27 at 09:23
TPH DRO	S 8015 D	105324	2015-09-01 at 14:52	124568	2015-09-01 at 19:00
TPH DRO	S 8015 D	105335	2015-09-01 at 17:00	124570	2015-09-02 at 12:15
TPH GRO.	S 8015 D	105268	2015-08-31 at 10:51	124504	2015-09-01 at 06:57

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 15082120 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.

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Tex-Mac TB

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Tex-Mac TB

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Analytical Report

Sample: 402968 - AH-1 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-08-27	Analyzed By:	AM
QC Batch:	124374	Sample Preparation:	2015-08-24	Prepared By:	AM
Prep Batch:	105169				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			190	mg/Kg	5	4.00

Sample: 402968 - AH-1 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2015-09-01	Analyzed By:	AK
QC Batch:	124568	Sample Preparation:	2015-09-01	Prepared By:	AK
Prep Batch:	105324				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	D	S	7470	mg/Kg	10	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	271	mg/Kg	10	50.0	542	70 - 130

Sample: 402968 - AH-1 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2015-09-01	Analyzed By:	AK
QC Batch:	124504	Sample Preparation:	2015-08-31	Prepared By:	AK
Prep Batch:	105268				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO		n	3730	mg/Kg	50	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			90.5	mg/Kg	50	100	90	70 - 130

continued ...

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sample continued ...

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr	146	mg/Kg	50	100	146	70 - 130

Sample: 402969 - AH-1 2'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 Sample Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			94.0	mg/Kg	5	4.00

Sample: 402969 - AH-1 2'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 124570 Date Analyzed: 2015-09-02 Analyzed By: AK
Prep Batch: 105335 Sample Preparation: 2015-09-01 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B, Jb	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			57.6	mg/Kg	1	50.0	115	70 - 130

Sample: 402969 - AH-1 2'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 124504 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 Sample Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.90	mg/Kg	1	2.00	95	70 - 130
4-Bromofluorobenzene (4-BFB)			1.69	mg/Kg	1	2.00	84	70 - 130

Sample: 402970 - AH-1 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 124375
Prep Batch: 105170

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-27
Sample Preparation: 2015-08-26

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	u		<20.0	mg/Kg	5	4.00

Sample: 402970 - AH-1 3'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 124570
Prep Batch: 105335

Analytical Method: S 8015 D
Date Analyzed: 2015-09-02
Sample Preparation: 2015-09-01

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	D, Jb	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	70.9	mg/Kg	1	50.0	142	70 - 130

Sample: 402970 - AH-1 3'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 124504
Prep Batch: 105268

Analytical Method: S 8015 D
Date Analyzed: 2015-09-01
Sample Preparation: 2015-08-31

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.82	mg/Kg	1	2.00	91	70 - 130
4-Bromofluorobenzene (4-BFB)			1.66	mg/Kg	1	2.00	83	70 - 130

Sample: 402971 - AH-1 4'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-08-27	Analyzed By:	AM
QC Batch:	124375	Sample Preparation:	2015-08-26	Prepared By:	AM
Prep Batch:	105170				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			94.0	mg/Kg	5	4.00

Sample: 402971 - AH-1 4'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2015-09-02	Analyzed By:	AK
QC Batch:	124570	Sample Preparation:	2015-09-01	Prepared By:	AK
Prep Batch:	105335				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO			<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			64.6	mg/Kg	1	50.0	129	70 - 130

Sample: 402971 - AH-1 4'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2015-09-01	Analyzed By:	AK
QC Batch:	124504	Sample Preparation:	2015-08-31	Prepared By:	AK
Prep Batch:	105268				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO			<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.65	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.61	mg/Kg	1	2.00	80	70 - 130

Sample: 402972 - AH-2 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 Sample Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			377	mg/Kg	5	4.00

Sample: 402972 - AH-2 1'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 124570 Date Analyzed: 2015-09-02 Analyzed By: AK
Prep Batch: 105335 Sample Preparation: 2015-09-01 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	n,js	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	67.0	mg/Kg	1	50.0	134	70 - 130

Sample: 402972 - AH-2 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 124504 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 Sample Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.81	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.69	mg/Kg	1	2.00	84	70 - 130

Sample: 402973 - AH-2 2'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 Sample Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			189	mg/Kg	5	4.00

Sample: 402973 - AH-2 2'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 124570 Date Analyzed: 2015-09-02 Analyzed By: AK
Prep Batch: 105335 Sample Preparation: 2015-09-01 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	DJB	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	66.2	mg/Kg	1	50.0	132	70 - 130

Sample: 402973 - AH-2 2'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 124504 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 Sample Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.65	mg/Kg	1	2.00	82	70 - 130

Sample: 402974 - AH-2 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 124375
Prep Batch: 105170

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-27
Sample Preparation: 2015-08-26

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	u		<20.0	mg/Kg	5	4.00

Sample: 402974 - AH-2 3'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 124570
Prep Batch: 105335

Analytical Method: S 8015 D
Date Analyzed: 2015-09-02
Sample Preparation: 2015-09-01

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	n, jk	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			63.2	mg/Kg	1	50.0	126	70 - 130

Sample: 402974 - AH-2 3'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 124504
Prep Batch: 105268

Analytical Method: S 8015 D
Date Analyzed: 2015-09-01
Sample Preparation: 2015-08-31

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.62	mg/Kg	1	2.00	81	70 - 130

Sample: 402975 - AH-2 4'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 Sample Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			94.0	mg/Kg	5	4.00

Sample: 402975 - AH-2 4'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 124570 Date Analyzed: 2015-09-02 Analyzed By: AK
Prep Batch: 105335 Sample Preparation: 2015-09-01 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B, Jb	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			59.9	mg/Kg	1	50.0	120	70 - 130

Sample: 402975 - AH-2 4'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 124504 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 Sample Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	5	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.67	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.53	mg/Kg	1	2.00	76	70 - 130

Sample: 402976 - AH-3 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-08-27	Analyzed By:	AM
QC Batch:	124375	Sample Preparation:	2015-08-26	Prepared By:	AM
Prep Batch:	105170				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			840	mg/Kg	5	4.00

Sample: 402976 - AH-3 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO	Date Analyzed:	2015-09-02	Analyzed By:	AK
QC Batch:	124570	Sample Preparation:	2015-09-01	Prepared By:	AK
Prep Batch:	105335				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	S	S	55.4	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	65.6	mg/Kg	1	50.0	131	70 - 130

Sample: 402976 - AH-3 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2015-09-01	Analyzed By:	AK
QC Batch:	124504	Sample Preparation:	2015-08-31	Prepared By:	AK
Prep Batch:	105268				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	S	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.74	mg/Kg	1	2.00	87	70 - 130
4-Bromofluorobenzene (4-BFB)			1.79	mg/Kg	1	2.00	90	70 - 130

Sample: 402977 - AH-3 2'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 Sample Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			283	mg/Kg	5	4.00

Sample: 402977 - AH-3 2'

Laboratory: Midland
Analysis: TPH DRO Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 124570 Date Analyzed: 2015-09-02 Analyzed By: AK
Prep Batch: 105335 Sample Preparation: 2015-09-01 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	u, lb	s	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			62.9	mg/Kg	1	50.0	126	70 - 130

Sample: 402977 - AH-3 2'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 124504 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 Sample Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	u	s	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.57	mg/Kg	1	2.00	78	70 - 130

Sample: 402978 - AH-3 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 121375
Prep Batch: 105170

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-08-27
Sample Preparation: 2015-08-26

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 402978 - AH-3 3'

Laboratory: Midland
Analysis: TPH DRO
QC Batch: 121570
Prep Batch: 105335

Analytical Method: S 8015 D
Date Analyzed: 2015-09-02
Sample Preparation: 2015-09-01

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	D, Jb	S	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			55.4	mg/Kg	1	50.0	111	70 - 130

Sample: 402978 - AH-3 3'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 121504
Prep Batch: 105268

Analytical Method: S 8015 D
Date Analyzed: 2015-09-01
Sample Preparation: 2015-08-31

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs, U	S	<4.00	mg/Kg	1	4.00

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.80	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.73	mg/Kg	1	2.00	86	70 - 130

Method Blanks

Method Blank (1) QC Batch: 124374

QC Batch: 124374 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105169 QC Preparation: 2015-08-24 Prepared By: AM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1) QC Batch: 124375

QC Batch: 124375 Date Analyzed: 2015-08-27 Analyzed By: AM
Prep Batch: 105170 QC Preparation: 2015-08-26 Prepared By: AM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1) QC Batch: 124501

QC Batch: 124501 Date Analyzed: 2015-09-01 Analyzed By: AK
Prep Batch: 105268 QC Preparation: 2015-08-31 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		5	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.87	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.71	mg/Kg	1	2.00	86	70 - 130

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Method Blank (1) QC Batch: 124568

QC Batch: 124568
Prep Batch: 105324

Date Analyzed: 2015-09-01
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
DRO	u	u	21.0	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			57.9	mg/Kg	1	50.0	116	70 - 130

Method Blank (1) QC Batch: 124570

QC Batch: 124570
Prep Batch: 105335

Date Analyzed: 2015-09-02
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
DRO	u	u	13.3	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			62.7	mg/Kg	1	50.0	125	70 - 130

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 124374
Prep Batch: 105169

Date Analyzed: 2015-08-27
QC Preparation: 2015-08-24

Analyzed By: AM
Prepared By: AM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2180	mg/Kg	5	2500	<19.2	87	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2280	mg/Kg	5	2500	<19.2	91	85 - 115	4	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 124375
Prep Batch: 105170

Date Analyzed: 2015-08-27
QC Preparation: 2015-08-26

Analyzed By: AM
Prepared By: AM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2450	mg/Kg	5	2500	<19.2	98	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2450	mg/Kg	5	2500	<19.2	98	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 124504
Prep Batch: 105268

Date Analyzed: 2015-09-01
QC Preparation: 2015-08-31

Analyzed By: AK
Prepared By: AK

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		s	15.2	mg/Kg	1	20.0	<2.32	76	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		s	17.7	mg/Kg	1	20.0	<2.32	88	70 - 130	15	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.85	1.92	mg/Kg	1	2.00	92	96	70 - 130
4-Bromofluorobenzene (4-BFB)	1.75	1.80	mg/Kg	1	2.00	88	90	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 124568
Prep Batch: 105324

Date Analyzed: 2015-09-01
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		s	254	mg/Kg	1	250	21	93	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		s	278	mg/Kg	1	250	21	103	70 - 130	9	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	65.0	66.8	mg/Kg	1	50.0	130	134	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 124570
Prep Batch: 105335

Date Analyzed: 2015-09-02
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

continued ...

control spikes continued ...

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		s	224	mg/Kg	1	250	13.3	84	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		s	218	mg/Kg	1	250	13.3	82	70 - 130	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	61.3	58.7	mg/Kg	1	50.0	123	117	70 - 130

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Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 402968

QC Batch: 124374
Prep Batch: 105169

Date Analyzed: 2015-08-27
QC Preparation: 2015-08-24

Analyzed By: AM
Prepared By: AM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2560	mg/Kg	5	2500	190	95	78.9 - 121

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2370	mg/Kg	5	2500	190	87	78.9 - 121	8	20

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

Matrix Spike (MS-1) Spiked Sample: 402978

QC Batch: 124375
Prep Batch: 105170

Date Analyzed: 2015-08-27
QC Preparation: 2015-08-26

Analyzed By: AM
Prepared By: AM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			3020	mg/Kg	5	2500	<19.2	121	78.9 - 121

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			3020	mg/Kg	5	2500	<19.2	121	78.9 - 121	0	20

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

Matrix Spike (MS-1) Spiked Sample: 402978

QC Batch: 124504
Prep Batch: 105268

Date Analyzed: 2015-09-01
QC Preparation: 2015-08-31

Analyzed By: AK
Prepared By: AK

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	q*	q*	s	11.6	mg/Kg	1	20.0	<2.32	58 70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	q*	q*	s	13.0	mg/Kg	1	20.0	<2.32	65 70 - 130	11	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.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.77	1.77	mg/Kg	1	2	88	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.74	1.79	mg/Kg	1	2	87	90	70 - 130

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 124568
Prep Batch: 105324

Date Analyzed: 2015-09-01
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		s	209	mg/Kg	1	250	<7.41	84	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		s	210	mg/Kg	1	250	<7.41	84	70 - 130	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.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	51.5	52.7	mg/Kg	1	50	103	105	70 - 130

Matrix Spike (MS-1) Spiked Sample: 402978

QC Batch: 124570
Prep Batch: 105335

Date Analyzed: 2015-09-02
QC Preparation: 2015-09-01

Analyzed By: AK
Prepared By: AK

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		s	226	mg/Kg	1	250	14.3	85	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		s	250	mg/Kg	1	250	14.3	94	70 - 130	10	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.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	54.4	55.6	mg/Kg	1	50	109	111	70 - 130

Calibration Standards

Standard (ICV-1)

QC Batch: 124374

Date Analyzed: 2015-08-27

Analyzed By: AM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-08-27

Standard (CCV-1)

QC Batch: 124374

Date Analyzed: 2015-08-27

Analyzed By: AM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-08-27

Standard (ICV-1)

QC Batch: 124375

Date Analyzed: 2015-08-27

Analyzed By: AM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-08-27

Standard (CCV-1)

QC Batch: 124375

Date Analyzed: 2015-08-27

Analyzed By: AM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-08-27

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Standard (CCV-1)

QC Batch: 124504

Date Analyzed: 2015-09-01

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		s	mg/Kg	1.00	0.943	94	80 - 120	2015-09-01

Standard (CCV-2)

QC Batch: 124504

Date Analyzed: 2015-09-01

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		s	mg/Kg	1.00	0.914	91	80 - 120	2015-09-01

Standard (CCV-3)

QC Batch: 124504

Date Analyzed: 2015-09-01

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		s	mg/Kg	1.00	0.834	83	80 - 120	2015-09-01

Standard (CCV-2)

QC Batch: 124568

Date Analyzed: 2015-09-01

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		s	mg/Kg	250	234	94	80 - 120	2015-09-01

Standard (CCV-3)

QC Batch: 124568

Date Analyzed: 2015-09-01

Analyzed By: AK

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		s	mg/Kg	250	241	96	80 - 120	2015-09-01

Standard (CCV-1)

QC Batch: 124570

Date Analyzed: 2015-09-02

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		s	mg/Kg	250	241	96	80 - 120	2015-09-02

Standard (CCV-2)

QC Batch: 124570

Date Analyzed: 2015-09-02

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		s	mg/Kg	250	261	104	80 - 120	2015-09-02

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	L-A-B	L2418	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-15-11	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	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.

Report Date: September 2, 2015
Tex-Mac TB

Work Order: 15082120
Tex-Mac TB

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Eddy Co, NM

	F	Description
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Qsr		Surrogate recovery outside of laboratory limits.
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U		The analyte is not detected above the SDL
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Attachments

The scanned attachments will follow this page.

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

15082120

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave., Ste B
Lubbock, Texas 79424
Tel (806) 794-1286
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

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El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4844

Bioanalytic Testing
2501 Hayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Concho Phone #: 432-661-6601

Address: 600 Illinois Avenue Fax #: 432-221-0892

Contact Person: Robert Grubbs Jr. Email: rgrubbs@concho.com

Invoice to: Concho

Project #: Project Name: Tex-Mac TB

Project Location: Eddy County New Mexico

Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TPH 8015 Chlorides																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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ANALYSIS REQUEST (Circle or Specify Method No.)

Turn Around Time If different from standard
Hold

Relinquished by: *[Signature]* Date: 8-2-15 Time: 1422

Received by: *[Signature]* Company: TA Date: 8/2/15 Time: 1422

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

LAB USE ONLY

Intact Y/N

Headspace Y/N/NA

Log-In Review

☐ Dry Weight Base Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed

Carrier # *[Signature]*

