REVIEWED
By Kellie Jones at 2:53 pm, Dec 14, 2015

CONCHO

Robert Grubbs Jr.
Senior Environmental Coordinator

November 10, 2015

Oil Conservation Division
District 1 – Hobbs
1625 N. French Drive
Hobbs, New Mexico 88240

APPROVED CONDITIONAL
By Kellie Jones at 2:53 pm, Dec 14, 2015

1. Please remove material down to 2 feet at T-2.
2. Ensure State Land Office approval.

Re: Bebidas State #1H
30-025-40855
Sec. 16, T23S-R33E
Lea County, NM

Ms. Kellie Jones,

COG Operating LLC would like to submit for your consideration the closure documents for the above captioned well. The letter is in response to the C-141 Initial report dated February 27, 2015.

Background

The release was caused when a switch on the wellhead had failed. The pressure on the packing caused a release of 212bbls of oil and 252bbls of produced water. The majority the release of the fluid contained on the pad with the exception of a 15' X 30' area in the pasture. The situation was remediated by replacing the faulty switch. This area was addressed with an initial scrap and all impacted material hauled to an NMOCD approved facility.

Groundwater

Based on the information obtained on the NMOSE website (Sec. 16, T23S-R33E), the release area would be classified at a site ranking of Zero with depth to groundwater at approximately >400'.

Soil Assessment and Analytical Results

Sample points labeled as T-1, T-2, T-3, T-4 and SP-1 on the attached site diagram depict the approximate sample locations within the release area along with a summary of the analytical results. Sample results show TPH and BTEX to be non-detect for all sample points at a depth of 1'. Chloride results show to be elevated in the area of T-2 to a depth of 1'

CORPORATE ADDRESS
One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS
Concho West | 2208 Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.746.2096

Work Plan

Due to the site, ranking being a zero COG Operating LLC proposes the excavation of the following sample area:

T-2 - Excavate to a depth of 1'

' and haul for disposal.

COG Operating LLC proposes that no further excavation be required due to chloride levels left in place being within tolerable levels for future reclamation of the location and depth to ground water at greater than 100'.

If there are no objections or further stipulations, COG Operating LLC would like to request closure of the release. Please feel free to contact me with any questions or concerns at (432) 661-6601.

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Sincerely,

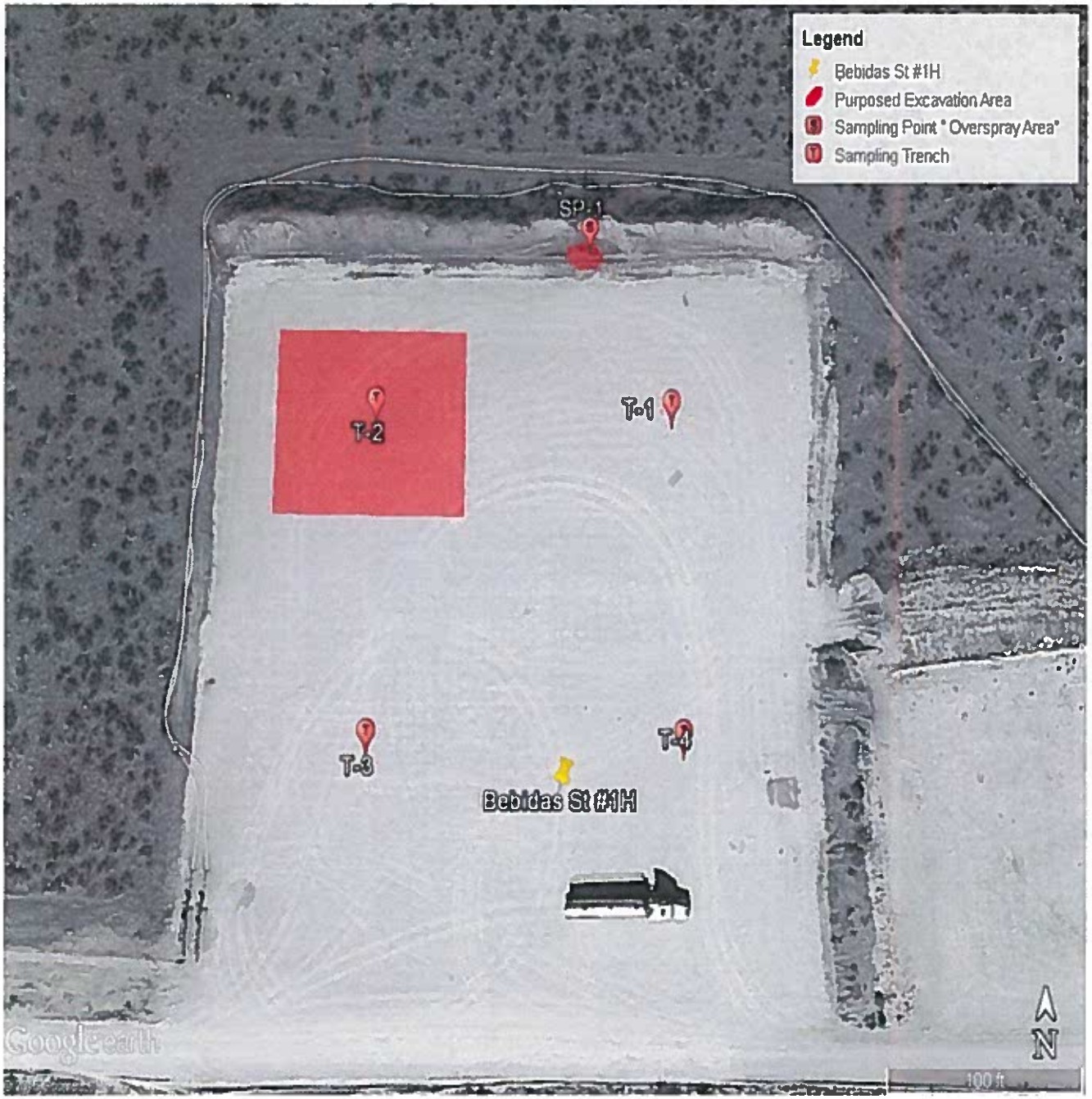
Robert Grubbs Jr.

Enclosed

(1) C-141 Initial
(2) Site Diagram
(3) Laboratory Analysis

October 13 2015

Bebidas St #1H



Site Ranking: Zero

Depth to GW per SEO: 500'

T-1	DRO	GRO	TPH	BTEX	Cl-
0-1'	< 50.0	< 4.00	< 50.0	<0.200	<20.0
2'	< 50.0	< 4.00	< 50.0	<0.200	196
3'	< 50.0	< 4.00	< 50.0	<0.200	784
T-2	**DRO**	**GRO**	**TPH**	**BTEX**	**Cl-**
0-1'	< 50.0	< 4.00	< 50.0	<0.200	**12700**
2'	< 50.0	< 4.00	< 50.0	<0.200	**6280**
3'	< 50.0	< 4.00	< 50.0	<0.200	686
T-3	**DRO**	**GRO**	**TPH**	**BTEX**	**Cl-**
0-1'	< 50.0	< 4.00	< 50.0	<0.200	98
2'	< 50.0	< 4.00	< 50.0	<0.200	196
3'	< 50.0	< 4.00	< 50.0	<0.200	196
T-4	**DRO**	**GRO**	**TPH**	**BTEX**	**Cl-**
0-1'	< 50.0	< 4.00	< 50.0	<0.200	196
2'	< 50.0	< 4.00	< 50.0	<0.200	280
3'	< 50.0	< 4.00	< 50.0	<0.200	<20.0
SP-1	**DRO**	**GRO**	**TPH**	**BTEX**	**Cl-**
0-1'	< 50.0	< 4.00	< 50.0	<0.200	<20.0

Bold values exceed RRALs per NMOCD Guidelines

CONCHO

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
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: May 20, 2015

Work Order: 15051125

Project Location: Lea Co, NM
Project Name: Bebidas St #1H
Project Number: Bebidas St #1H

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
393017	T-1 0-1'	soil	2015-05-07	00:00	2015-05-11
393018	T-1 2'	soil	2015-05-07	00:00	2015-05-11
393019	T-1 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393020	T-2 0-1'	soil	2015-05-07	00:00	2015-05-11
393021	T-2 2'	soil	2015-05-07	00:00	2015-05-11
393022	T-2 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393023	T-3 0-1'	soil	2015-05-07	00:00	2015-05-11
393024	T-3 2'	soil	2015-05-07	00:00	2015-05-11
393025	T-3 3'	soil	2015-05-07	00:00	2015-05-11
393026	T-4 0-1'	soil	2015-05-07	00:00	2015-05-11
393027	T-4 2'	soil	2015-05-07	00:00	2015-05-11
393028	T-4 3' (Refusal)	soil	2015-05-07	00:00	2015-05-11
393029	SP-1 (Overspray Area)	soil	2015-05-07	00:00	2015-05-11

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 45 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

Samples for project Bebidas St #1H were received by TraceAnalysis, Inc. on 2015-05-11 and assigned to work order 15051125. Samples for work order 15051125 were received intact at a temperature of 5.6 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	102792	2015-05-13 at 15:07	121501	2015-05-14 at 09:32
BTEX	S 8021B	102812	2015-05-14 at 11:35	121544	2015-05-15 at 08:41
Chloride (Titration)	SM 4500-Cl B	102816	2015-05-14 at 12:08	121521	2015-05-14 at 12:09
Chloride (Titration)	SM 4500-Cl B	102888	2015-05-18 at 15:26	121616	2015-05-19 at 09:40
Chloride (Titration)	SM 4500-Cl B	102912	2015-05-19 at 12:10	121668	2015-05-20 at 08:50
TPH DRO - NEW	S 8015 D	102740	2015-05-11 at 18:46	121475	2015-05-13 at 11:15
TPH DRO - NEW	S 8015 D	102773	2015-05-12 at 17:00	121465	2015-05-13 at 08:29
TPH GRO	S 8015 D	102792	2015-05-13 at 15:07	121502	2015-05-14 at 09:34
TPH GRO	S 8015 D	102812	2015-05-14 at 11:35	121545	2015-05-15 at 08:47

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 15051125 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.

Analytical Report

Sample: 393017 - T-1 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 393017 - T-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

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

Sample: 393017 - T-1 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			107	mg/Kg	1	100	107	70 - 130

Sample: 393017 - T-1 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.86	mg/Kg	1	2.00	93	70 - 130

Sample: 393018 - T-1 2'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)			2.06	mg/Kg	1	2.00	103	70 - 130

Sample: 393018 - T-1 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**196**	mg/Kg	5	4.00

Sample: 393018 - T-1 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			101	mg/Kg	1	100	101	70 - 130

Sample: 393018 - T-1 2'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

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)			1.87	mg/Kg	1	2.00	94	70 - 130

Sample: 393019 - T-1 3' (Refusal)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.32	mg/Kg	1	2.00	116	70 - 130
4-Bromofluorobenzene (4-BFB)			2.07	mg/Kg	1	2.00	104	70 - 130

Sample: 393019 - T-1 3' (Refusal)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**784**	mg/Kg	5	4.00

Sample: 393019 - T-1 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			94.7	mg/Kg	1	100	95	70 - 130

Sample: 393019 - T-1 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.88	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.07	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**12700**	mg/Kg	5	4.00

Sample: 393020 - T-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			105	mg/Kg	1	100	105	70 - 130

Sample: 393020 - T-2 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 393021 - T-2 2'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.26	mg/Kg	1	2.00	113	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 393021 - T-2 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**6280**	mg/Kg	5	4.00

Sample: 393021 - T-2 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			110	mg/Kg	1	100	110	70 - 130

Sample: 393021 - T-2 2'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Q=,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

Sample: 393022 - T-2 3' (Refusal)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.10	mg/Kg	1	2.00	105	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 393022 - T-2 3' (Refusal)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			686	mg/Kg	5	4.00

Sample: 393022 - T-2 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.9	mg/Kg	1	100	93	70 - 130

Sample: 393022 - T-2 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

Sample: 393023 - T-3 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200

continued ...

sample 393023 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.20	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			1.95	mg/Kg	1	2.00	98	70 - 130

Sample: 393023 - T-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**98.0**	mg/Kg	5	4.00

Sample: 393023 - T-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			86.5	mg/Kg	1	100	86	70 - 130

Sample: 393023 - T-3 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qe,U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.85	mg/Kg	1	2.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 393024 - T-3 2'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121501	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.25	mg/Kg	1	2.00	112	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 393024 - T-3 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**196**	mg/Kg	5	4.00

Sample: 393024 - T-3 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			89.6	mg/Kg	1	100	90	70 - 130

Sample: 393024 - T-3 2'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121502	Date Analyzed:	2015-05-14	Analyzed By:	AK
Prep Batch:	102792	Sample Preparation:	2015-05-13	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	Qs,U	2	<4.00	mg/Kg	1	4.00

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)			1.84	mg/Kg	1	2.00	92	70 - 130

Sample: 393025 - T-3 3'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121544	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.18	mg/Kg	1	2.00	109	70 - 130
4-Bromofluorobenzene (4-BFB)			2.00	mg/Kg	1	2.00	100	70 - 130

Sample: 393025 - T-3 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**196**	mg/Kg	5	4.00

Sample: 393025 - T-3 3'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			106	mg/Kg	1	100	106	70 - 130

Sample: 393025 - T-3 3'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121545	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	2	<4.00	mg/Kg	1	4.00

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)			1.87	mg/Kg	1	2.00	94	70 - 130

Sample: 393026 - T-4 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121544	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.94	mg/Kg	1	2.00	97	70 - 130

Sample: 393026 - T-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121521	Date Analyzed:	2015-05-14	Analyzed By:	EM
Prep Batch:	102816	Sample Preparation:	2015-05-14	Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**196**	mg/Kg	5	4.00

Sample: 393026 - T-4 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121475	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102740	Sample Preparation:	2015-05-11	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			96.5	mg/Kg	1	100	96	70 - 130

Sample: 393026 - T-4 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121545	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	2	<4.00	mg/Kg	1	4.00

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)			1.82	mg/Kg	1	2.00	91	70 - 130

Sample: 393027 - T-4 2'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121541	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.91	mg/Kg	1	2.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)			1.74	mg/Kg	1	2.00	87	70 - 130

Sample: 393027 - T-4 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121616	Date Analyzed:	2015-05-19	Analyzed By:	AK
Prep Batch:	102888	Sample Preparation:	2015-05-18	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**280**	mg/Kg	5	4.00

Sample: 393027 - T-4 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121465	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102773	Sample Preparation:	2015-05-12	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			97.8	mg/Kg	1	100	98	70 - 130

Sample: 393027 - T-4 2'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121545	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.58	mg/Kg	1	2.00	79	70 - 130
4-Bromofluorobenzene (4-BFB)			1.62	mg/Kg	1	2.00	81	70 - 130

Sample: 393028 - T-4 3' (Refusal)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121544	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.14	mg/Kg	1	2.00	107	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 393028 - T-4 3' (Refusal)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121668	Date Analyzed:	2015-05-20	Analyzed By:	AK
Prep Batch:	102912	Sample Preparation:	2015-05-19	Prepared By:	AK

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

Sample: 393028 - T-4 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121465	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102773	Sample Preparation:	2015-05-12	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.9	mg/Kg	1	100	96	70 - 130

Sample: 393028 - T-4 3' (Refusal)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121545	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	2	<4.00	mg/Kg	1	4.00

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)			1.82	mg/Kg	1	2.00	91	70 - 130

Sample: 393029 - SP-1 (Overspray Area)

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	121544	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	2	<0.0200	mg/Kg	1	0.0200
Toluene	U	2	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	2	<0.0200	mg/Kg	1	0.0200
Xylene	U	2	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.19	mg/Kg	1	2.00	110	70 - 130
4-Bromofluorobenzene (4-BFB)			2.02	mg/Kg	1	2.00	101	70 - 130

Sample: 393029 - SP-1 (Overspray Area)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	121668	Date Analyzed:	2015-05-20	Analyzed By:	AK
Prep Batch:	102912	Sample Preparation:	2015-05-19	Prepared By:	AK

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

Sample: 393029 - SP-1 (Overspray Area)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	121465	Date Analyzed:	2015-05-13	Analyzed By:	SC
Prep Batch:	102773	Sample Preparation:	2015-05-12	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO		2	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			102	mg/Kg	1	100	102	70 - 130

Sample: 393029 - SP-1 (Overspray Area)

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	121545	Date Analyzed:	2015-05-15	Analyzed By:	AK
Prep Batch:	102812	Sample Preparation:	2015-05-14	Prepared By:	AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	2	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

Method Blanks

Method Blank (1) QC Batch: 121465

QC Batch: 121465 Date Analyzed: 2015-05-13 Analyzed By: SC
Prep Batch: 102773 QC Preparation: 2015-05-12 Prepared By: SC

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		2	<7.41	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			101	mg/Kg	1	100	101	70 - 130

Method Blank (1) QC Batch: 121475

QC Batch: 121475 Date Analyzed: 2015-05-13 Analyzed By: SC
Prep Batch: 102740 QC Preparation: 2015-05-11 Prepared By: SC

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		2	7.66	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			92.6	mg/Kg	1	100	93	70 - 130

Method Blank (1) QC Batch: 121501

QC Batch: 121501 Date Analyzed: 2015-05-14 Analyzed By: AK
Prep Batch: 102792 QC Preparation: 2015-05-13 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.00533	mg/Kg	0.02
Toluene		2	<0.00645	mg/Kg	0.02
Ethylbenzene		2	<0.0116	mg/Kg	0.02
Xylene		2	<0.00874	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.28	mg/Kg	1	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Method Blank (1) QC Batch: 121502

QC Batch: 121502 | Date Analyzed: 2015-05-14 | Analyzed By: AK
Prep Batch: 102792 | QC Preparation: 2015-05-13 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		2	<2.32	mg/Kg	4

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)			1.90	mg/Kg	1	2.00	95	70 - 130

Method Blank (1) QC Batch: 121521

QC Batch: 121521 | Date Analyzed: 2015-05-14 | Analyzed By: EM
Prep Batch: 102816 | QC Preparation: 2015-05-14 | Prepared By: EM

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

Method Blank (1) QC Batch: 121544

QC Batch: 121544 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		2	<0.00533	mg/Kg	0.02
Toluene		2	<0.00645	mg/Kg	0.02
Ethylbenzene		2	<0.0116	mg/Kg	0.02

continued ...

method blank continued ...

Parameter	Flag	Cert	MDL Result	Units	RL
Xylene		2	<0.00874	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.28	mg/Kg	1	2.00	114	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Method Blank (1) QC Batch: 121545

QC Batch: 121545 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		2	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.89	mg/Kg	1	2.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	70 - 130

Method Blank (1) QC Batch: 121616

QC Batch: 121616 | Date Analyzed: 2015-05-19 | Analyzed By: AK
Prep Batch: 102888 | QC Preparation: 2015-05-18 | Prepared By: AK

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

Method Blank (1) QC Batch: 121668

QC Batch: 121668 | Date Analyzed: 2015-05-20 | Analyzed By: AK
Prep Batch: 102912 | QC Preparation: 2015-05-19 | Prepared By: AK

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

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 121465
Prep Batch: 102773

Date Analyzed: 2015-05-13
QC Preparation: 2015-05-12

Analyzed By: SC
Prepared By: SC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	235	mg/Kg	1	250	<7.41	94	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		2	249	mg/Kg	1	250	<7.41	100	70 - 130	6	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	100	107	mg/Kg	1	100	100	107	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121475
Prep Batch: 102740

Date Analyzed: 2015-05-13
QC Preparation: 2015-05-11

Analyzed By: SC
Prepared By: SC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	239	mg/Kg	1	250	7.66	92	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		2	219	mg/Kg	1	250	7.66	84	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	118	113	mg/Kg	1	100	118	113	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121501 | Date Analyzed: 2015-05-14 | Analyzed By: AK
Prep Batch: 102792 | QC Preparation: 2015-05-13 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.26	mg/Kg	1	2.00	<0.00533	113	70 - 130
Toluene		2	1.99	mg/Kg	1	2.00	<0.00645	100	70 - 130
Ethylbenzene		2	1.94	mg/Kg	1	2.00	<0.0116	97	70 - 130
Xylene		2	5.76	mg/Kg	1	6.00	<0.00874	96	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
Benzene		2	2.23	mg/Kg	1	2.00	<0.00533	112	70 - 130	1	20
Toluene		2	2.01	mg/Kg	1	2.00	<0.00645	100	70 - 130	1	20
Ethylbenzene		2	1.96	mg/Kg	1	2.00	<0.0116	98	70 - 130	1	20
Xylene		2	5.75	mg/Kg	1	6.00	<0.00874	96	70 - 130	0	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)	2.20	2.12	mg/Kg	1	2.00	110	106	70 - 130
4-Bromofluorobenzene (4-BFB)	1.94	1.92	mg/Kg	1	2.00	97	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121502 | Date Analyzed: 2015-05-14 | Analyzed By: AK
Prep Batch: 102792 | QC Preparation: 2015-05-13 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	14.5	mg/Kg	1	20.0	<2.32	72	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		2	15.2	mg/Kg	1	20.0	<2.32	76	70 - 130	5	20

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

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.72	1.79	mg/Kg	1	2.00	86	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.85	1.92	mg/Kg	1	2.00	92	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121521 | Date Analyzed: 2015-05-14 | Analyzed By: EM
Prep Batch: 102816 | QC Preparation: 2015-05-14 | Prepared By: EM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2650	mg/Kg	5	2500	<19.2	106	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			2550	mg/Kg	5	2500	<19.2	102	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: 121544 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.16	mg/Kg	1	2.00	<0.00533	108	70 - 130
Toluene		2	1.92	mg/Kg	1	2.00	<0.00645	96	70 - 130
Ethylbenzene		2	1.86	mg/Kg	1	2.00	<0.0116	93	70 - 130
Xylene		2	5.58	mg/Kg	1	6.00	<0.00874	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
Benzene		2	2.17	mg/Kg	1	2.00	<0.00533	108	70 - 130	0	20
Toluene		2	1.89	mg/Kg	1	2.00	<0.00645	94	70 - 130	2	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		2	1.87	mg/Kg	1	2.00	<0.0116	94	70 - 130	0	20
Xylene		2	5.53	mg/Kg	1	6.00	<0.00874	92	70 - 130	1	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)	2.20	2.26	mg/Kg	1	2.00	110	113	70 - 130
4-Bromofluorobenzene (4-BFB)	1.92	1.93	mg/Kg	1	2.00	96	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121545 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	14.0	mg/Kg	1	20.0	<2.32	70	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		2	16.1	mg/Kg	1	20.0	<2.32	80	70 - 130	14	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)	1.92	1.92	mg/Kg	1	2.00	96	96	70 - 130
4-Bromofluorobenzene (4-BFB)	2.03	2.02	mg/Kg	1	2.00	102	101	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 121616 | Date Analyzed: 2015-05-19 | Analyzed By: AK
Prep Batch: 102888 | QC Preparation: 2015-05-18 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2520	mg/Kg	5	2500	<19.2	101	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			2520	mg/Kg	5	2500	<19.2	101	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: 121668 | Date Analyzed: 2015-05-20 | Analyzed By: AK
Prep Batch: 102912 | QC Preparation: 2015-05-19 | Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2370	mg/Kg	5	2500	<19.2	95	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			2460	mg/Kg	5	2500	<19.2	98	85 - 115	4	20

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

Matrix Spikes

Matrix Spike (xMS-1) Spiked Sample: 393110

QC Batch: 121465
Prep Batch: 102773

Date Analyzed: 2015-05-13
QC Preparation: 2015-05-12

Analyzed By: SC
Prepared By: SC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	216	mg/Kg	1	250	16.4	80	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		2	242	mg/Kg	1	250	16.4	90	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
n-Tricosane	99.9	104	mg/Kg	1	100	100	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393011

QC Batch: 121475
Prep Batch: 102740

Date Analyzed: 2015-05-13
QC Preparation: 2015-05-11

Analyzed By: SC
Prepared By: SC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		2	197	mg/Kg	1	250	18.7	71	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		2	206	mg/Kg	1	250	18.7	75	70 - 130	4	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	94.7	97.6	mg/Kg	1	100	95	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393011

QC Batch: 121501 | Date Analyzed: 2015-05-14 | Analyzed By: AK
Prep Batch: 102792 | QC Preparation: 2015-05-13 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.07	mg/Kg	1	2.00	<0.00533	104	70 - 130
Toluene		2	1.88	mg/Kg	1	2.00	<0.00645	94	70 - 130
Ethylbenzene		2	1.88	mg/Kg	1	2.00	<0.0116	94	70 - 130
Xylene		2	5.69	mg/Kg	1	6.00	<0.00874	95	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
Benzene		2	2.03	mg/Kg	1	2.00	<0.00533	102	70 - 130	2	20
Toluene		2	1.86	mg/Kg	1	2.00	<0.00645	93	70 - 130	1	20
Ethylbenzene		2	1.91	mg/Kg	1	2.00	<0.0116	96	70 - 130	2	20
Xylene		2	5.61	mg/Kg	1	6.00	<0.00874	94	70 - 130	1	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)	1.93	1.66	mg/Kg	1	2	96	83	70 - 130
4-Bromofluorobenzene (4-BFB)	1.95	1.71	mg/Kg	1	2	98	86	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393011

QC Batch: 121502 | Date Analyzed: 2015-05-14 | Analyzed By: AK
Prep Batch: 102792 | QC Preparation: 2015-05-13 | Prepared By: AK

Param		F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	Q*	Q*	2	11.4	mg/Kg	1	20.0	<2.32	57	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*	2	12.8	mg/Kg	1	20.0	<2.32	64	70 - 130	12	20

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

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.77	1.74	mg/Kg	1	2	88	87	70 - 130
4-Bromofluorobenzene (4-BFB)	1.86	1.91	mg/Kg	1	2	93	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393026

QC Batch: 121521 | Date Analyzed: 2015-05-14 | Analyzed By: EM
Prep Batch: 102816 | QC Preparation: 2015-05-14 | Prepared By: EM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2740	mg/Kg	5	2500	196	102	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			2550	mg/Kg	5	2500	196	94	78.9 - 121	7	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: 393029

QC Batch: 121544 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		2	2.25	mg/Kg	1	2.00	<0.00533	112	70 - 130
Toluene		2	2.03	mg/Kg	1	2.00	<0.00645	102	70 - 130
Ethylbenzene		2	2.09	mg/Kg	1	2.00	<0.0116	104	70 - 130
Xylene		2	6.20	mg/Kg	1	6.00	<0.00874	103	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
Benzene		2	2.18	mg/Kg	1	2.00	<0.00533	109	70 - 130	3	20
Toluene		2	2.01	mg/Kg	1	2.00	<0.00645	100	70 - 130	1	20

continued ...

matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		2	2.04	mg/Kg	1	2.00	<0.0116	102	70 - 130	2	20
Xylene		2	6.07	mg/Kg	1	6.00	<0.00874	101	70 - 130	2	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)	2.17	2.24	mg/Kg	1	2	108	112	70 - 130
4-Bromofluorobenzene (4-BFB)	2.12	2.07	mg/Kg	1	2	106	104	70 - 130

Matrix Spike (MS-1) Spiked Sample: 393029

QC Batch: 121545 | Date Analyzed: 2015-05-15 | Analyzed By: AK
Prep Batch: 102812 | QC Preparation: 2015-05-14 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		2	14.1	mg/Kg	1	20.0	<2.32	70	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		2	14.5	mg/Kg	1	20.0	<2.32	72	70 - 130	3	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)	1.70	1.83	mg/Kg	1	2	85	92	70 - 130
4-Bromofluorobenzene (4-BFB)	1.88	1.97	mg/Kg	1	2	94	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 391853

QC Batch: 121616 | Date Analyzed: 2015-05-19 | Analyzed By: AK
Prep Batch: 102888 | QC Preparation: 2015-05-18 | Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2900	mg/Kg	5	2500	748	86	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			2900	mg/Kg	5	2500	748	86	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: 393034

QC Batch: 121668 Date Analyzed: 2015-05-20 Analyzed By: AK
Prep Batch: 102912 QC Preparation: 2015-05-19 Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2460	mg/Kg	5	2500	<19.2	98	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			2650	mg/Kg	5	2500	<19.2	106	78.9 - 121	7	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 121465 Date Analyzed: 2015-05-13 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	244	98	80 - 120	2015-05-13

Standard (CCV-2)

QC Batch: 121465 Date Analyzed: 2015-05-13 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	225	90	80 - 120	2015-05-13

Standard (CCV-2)

QC Batch: 121475 Date Analyzed: 2015-05-13 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	224	90	80 - 120	2015-05-13

Standard (CCV-3)

QC Batch: 121475 Date Analyzed: 2015-05-13 Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		2	mg/Kg	250	245	98	80 - 120	2015-05-13

Standard (CCV-2)

QC Batch: 121501 Date Analyzed: 2015-05-14 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/kg	0.100	0.109	109	80 - 120	2015-05-14
Toluene		2	mg/kg	0.100	0.0970	97	80 - 120	2015-05-14
Ethylbenzene		2	mg/kg	0.100	0.0955	96	80 - 120	2015-05-14
Xylene		2	mg/kg	0.300	0.281	94	80 - 120	2015-05-14

Standard (CCV-3)

QC Batch: 121501 Date Analyzed: 2015-05-14 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/kg	0.100	0.106	106	80 - 120	2015-05-14
Toluene		2	mg/kg	0.100	0.0931	93	80 - 120	2015-05-14
Ethylbenzene		2	mg/kg	0.100	0.0911	91	80 - 120	2015-05-14
Xylene		2	mg/kg	0.300	0.269	90	80 - 120	2015-05-14

Standard (CCV-2)

QC Batch: 121502 Date Analyzed: 2015-05-14 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.904	90	80 - 120	2015-05-14

Standard (CCV-3)

QC Batch: 121502 Date Analyzed: 2015-05-14 Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.797	80	80 - 120	2015-05-14

Standard (ICV-1)

QC Batch: 121521 | Date Analyzed: 2015-05-14 | Analyzed By: EM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2015-05-14

Standard (CCV-1)

QC Batch: 121521 | Date Analyzed: 2015-05-14 | Analyzed By: EM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.0	99	85 - 115	2015-05-14

Standard (CCV-1)

QC Batch: 121544 | Date Analyzed: 2015-05-15 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/kg	0.100	0.106	106	80 - 120	2015-05-15
Toluene		2	mg/kg	0.100	0.0931	93	80 - 120	2015-05-15
Ethylbenzene		2	mg/kg	0.100	0.0911	91	80 - 120	2015-05-15
Xylene		2	mg/kg	0.300	0.269	90	80 - 120	2015-05-15

Standard (CCV-2)

QC Batch: 121544 | Date Analyzed: 2015-05-15 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		2	mg/kg	0.100	0.111	111	80 - 120	2015-05-15
Toluene		2	mg/kg	0.100	0.0977	98	80 - 120	2015-05-15
Ethylbenzene		2	mg/kg	0.100	0.0972	97	80 - 120	2015-05-15
Xylene		2	mg/kg	0.300	0.283	94	80 - 120	2015-05-15

Standard (CCV-1)

QC Batch: 121545 | Date Analyzed: 2015-05-15 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.797	80	80 - 120	2015-05-15

Standard (CCV-2)

QC Batch: 121545 | Date Analyzed: 2015-05-15 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		2	mg/Kg	1.00	0.968	97	80 - 120	2015-05-15

Standard (ICV-1)

QC Batch: 121616 | Date Analyzed: 2015-05-19 | Analyzed By: AK

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2015-05-19

Standard (CCV-1)

QC Batch: 121616 | Date Analyzed: 2015-05-19 | Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.0	99	85 - 115	2015-05-19

Standard (ICV-1)

QC Batch: 121668 | Date Analyzed: 2015-05-20 | Analyzed By: AK

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	2015-05-20

Standard (CCV-1)

QC Batch: 121668 Date Analyzed: 2015-05-20 Analyzed By: AK

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	2015-05-20

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	NELAP	T104704392-14-8	Midland

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

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 1505125

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
Lubbock,Texas 79424
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5002 Basin Street, Suite A1
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

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

Company Name: Concho	Phone #: (432) 661-6601
Address: 600 W. Illinois Ave.	Fax #:
Contact Person: Robert Grubbs Jr.	E-mail: rgrubbs@concho.com
Invoice to: Concho	
Project #:	Project Name: Bebidas St #1H
Project Location: (Include state) Lea County, NM	Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	Chlorides	TPH 8015M	BTEX 8021B
393017	T-1 0-1'	1	4 oz		X							X		5-7		X	X	X
393018	T-1 2'	1	4 oz		X							X				X	X	X
393019	T-1 3' (Refusal)	1	4 oz		X							X				X	X	X
393020	T-2 0-1'	1	4 oz		X							X				X	X	X
393021	T-2 2'	1	4 oz		X							X				X	X	X
393022	T-2 3' (Refusal)	1	4 oz		X							X				X	X	X
393023	T-3 0-1'	1	4 oz		X							X				X	X	X
393024	T-3 2'	1	4 oz		X							X				X	X	X
393025	T-3 3' (Refusal)	1	4 oz		X							X				X	X	X
393026	T-4 0-1'	1	4 oz		X							X				X	X	X
393027	T-4 2'	1	4 oz		X							X				X	X	X

Turn Around Time if different from standard

Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Concho	5-6-15	14:18		Trace	5-1-15	14:18	INST JK OBS 5.6 °C COR ____ °C
								INST ____ OBS ____ °C COR ____ °C
								INST ____ OBS ____ °C COR ____ °C

LAB USE ONLY

Intact Y / N

Headspace Y / N /NA

Log-in Review

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions

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LAB Order ID # 15051125

Page 2 of 2

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Ste 9
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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Concho	Phone #: (432) 661-6601
Address: 600 W. Illinois Ave.	Fax #:
Contact Person: Robert Grubbs Jr.	E-mail: rgrubbs@concho.com
Invoice to: Concho	
Project #:	Project Name: Bebidas St #1H
Project Location: (Include state) Lea County, NM	Sampler Signature: Robert Grubbs

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	Chlorides	TPH 8015M	BTEX 8021B	Turn Around Time if different from standard	Hold
393028	T-4 3' (Refusal)	1	4 oz		X							X				X	X	X		
393029	SP-1 (Overspray Area)	1	4 oz		X							X				X	X	X		

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Robert Grubbs	Concho	5-11-15	14:18	Kelley	Trace	5-11-15	14:18
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

INST IR
OBS 5.6 °C
COR °C

LAB USE ONLY

Intact Y / N

Headspace Y / N /NA

Log-in Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check if Special Reporting Limits Are Needed

Carrier #

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