SITE CLOSURE REPORT

SUNOCO DENTON STATION

UNIT P, SECTION 9, TOWNSHIP 15 SOUTH, RANGE 35 EAST EAST OF LOVINGTON
LEA COUNTY, NEW MEXICO

RECEIVED

Prepared for:

Sunoco Logistics L.P. 401 Cypress, Ste 610 Abilene, Texas 79601 AUG 27 2010 HOBBSOCD



Prepared by:

NOVA Safety and Environmental

2057 Commerce Drive Midland, Texas 79703

April 2010

Ronald K. Rounsaville Senior Project Manager

Brittan K. Byerly, P.G.

Bith & Bruf

President

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1.0 INTRODUCTION

NOVA Safety and Environmental (NOVA), is pleased to submit to Sunoco Logistics (Sunoco) this Site Closure Report (SCR) for the crude oil release site known as Sunoco Logistics Denton Station. The Sunoco Denton Station site is an active crude oil tank battery operated by Sunoco Logistics. The release site is located in Unit P, Section 9, Township 15 South, Range 37 East, Lea County, New Mexico. A Site Location Map is provided as Figure 1.

2.0 NMOCD SITE CLASSIFICATION

On June 30, 2009, NOVA contacted the NMOCD regarding the depth the groundwater in the vicinity of the release site. The depth to groundwater at this site is approximately 70-75 feet below ground surface (bgs). This depth to groundwater results in a score of 10 being assigned to this site based on the NMOCD ranking criteria. The distance to the nearest water source is less than 1,000 feet, resulting in 20 points being assigned to the site on this ranking criterion. There is no surface water body located with 1,000 feet of the site, resulting in no points being assigned on this ranking criterion.

The NMOCD's Guidelines for Remediation of Leaks, Spills and Releases (NMOCD, 1993), indicates the Sunoco Denton Station site has a ranking score of >19 points. The soil cleanup levels for a site with a ranking score of >19 require benzene concentrations below 10 mg/Kg, total benzene, toluene, ethylbenzene and xylene (BTEX) concentrations below 50 mg/Kg and total petroleum hydrocarbons gasoline range organics / diesel range organics (TPH-GRO/DRO) concentrations below 100 mg/Kg.

3.0 SUMMARY OF FIELD ACTIVITIES

3.1 Impacted Soil Removal

Upon completing emergency abatement activities by Sunoco, NOVA mobilized equipment to the site on June 15, 2009. Inspection of the release site indicated the release had been contained within the tank battery secondary containment area and was limited to the western half of the tank battery. On June 15, 2009, hydrocarbon impacted soil was excavated from the western half of the tank battery. Impacted soil removal activities began by excavating a limited area located beneath the release source to determine vertical extent and continued until the upper five feet of soil within the secondary containment area was removed.

Based on visual and olfactory observations, excavation activities were suspended pending the analytical results of confirmation soil samples collected at locations within the excavation area. The final leak source excavation measured approximately 100 feet in length by 30 feet in width and averaged approximately five feet in depth. An estimated 400 cubic yards of affected soil was brought to the surface and stockpiled on site pending final disposition of the excavated soil. Figure 2 is a Site Details and Sample Location Map displaying the tank battery, excavation areas and other site details.

3.2 Excavated Soil Remediation

Excavated soil was staged in a cleared area adjacent to the excavation. The excavated impacted soil stockpiled on site was transported to an alternate Sunoco location and staged for blending and remediation.

3.3 Confirmation Soil Sampling and Analytical Results

On June 17, 2009, five excavation sidewall and two floor samples were collected from the tank battery excavation area. All samples were collected utilizing standard soil sampling protocol as stated in NMOCD guidelines. Laboratory submitted samples were placed in a new sterile glass containers, equipped with a Teflon-lined lid furnished by the laboratory. The samples were labeled, placed on ice, chilled to a temperature of approximately 4°C and transported to Trace Analysis, Inc in Midland, Texas for analysis of Benzene, Toluene, Ethyl-benzene and Xylenes (BTEX) by EPA method 8021B and Total Petroleum Hydrocarbons (TPH) by EPA method 8015. Appropriate chain-of-custody documentation and shipping protocols were followed. The laboratory analytical reports are provided in Appendix A. For reference, Figure 2 displays the locations of the confirmation soil samples and Table 1 presents the analytical results for the laboratory analyzed soil samples.

Laboratory analytical results confirmed that five of the seven soil samples obtained from the excavation floor and sidewalls exhibited BTEX and TPH concentrations below the regulatory clean up level of 50 mg/Kg and 100 mg/Kg.

Analytical results indicated soil samples EWS and Sbh-5', located to the west and immediately adjacent to the southernmost tank exhibited TPH concentrations of 702 mg/Kg and 103.2 mg/Kg, respectively.

Based on the proximity of the excavated sidewalls to the battery storage tanks, it would not be prudent to undermine the structural integrity of the active tanks by continuing to excavate impacted soils within two feet of the tanks.

3.4 Backfilling and Surface Restoration

The excavated impacted soil stockpiled on site was transported to an alternate Sunoco location and staged for blending and remediation. In August 2009, the entire excavation was backfilled with clean backfill material transported from a nearby source and the site was restored to original grade.

4.0 SUMMARY AND REQUEST FOR CLOSURE

Sunoco believes that continued excavation of impacted soils along the walls immediately adjacent to the southern tank would potentially weaken the structural foundation of the tank. Therefore, upon termination of the use of the battery, Sunoco will remove the existing tanks

from the site and over-excavate any remaining impacted soils, which will be properly disposed and restore the site to original condition.

Based on the analytical results of laboratory analyzed confirmation soil samples obtained from the remedial excavation, impacted soil was brought to surface and remediated to below applicable NMOCD clean up levels. Consequently, no further action is recommended or planned for the site at this time. NOVA on behalf on Sunoco Logistics respectfully requests that the NMOCD grant closure to the Sunoco Denton Station crude oil release incident of June 15, 2009. Upon abandonment of the Denton Station site by Sunoco, residual hydrocarbon impact will be removed and the site permanently closed at that time.

5.0 LIMITATIONS

NOVA has prepared this Site Closure Report to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Sunoco Logistics. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or Sunoco Logistics.

6.0 DISTRIBUTION

Sunoco Logistics Denton Station, Crude Oil Tank Battery Site Closure Report

Copy 1, 2 & 3: Cr

Craig Rutland Sunoco Logistics 401 Cypress, Suite 610 Abilene, Texas 79601

Copy 4:

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86666666

Larry Johnson

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1625 French Drive Hobbs, NM 88240

Copy 5:

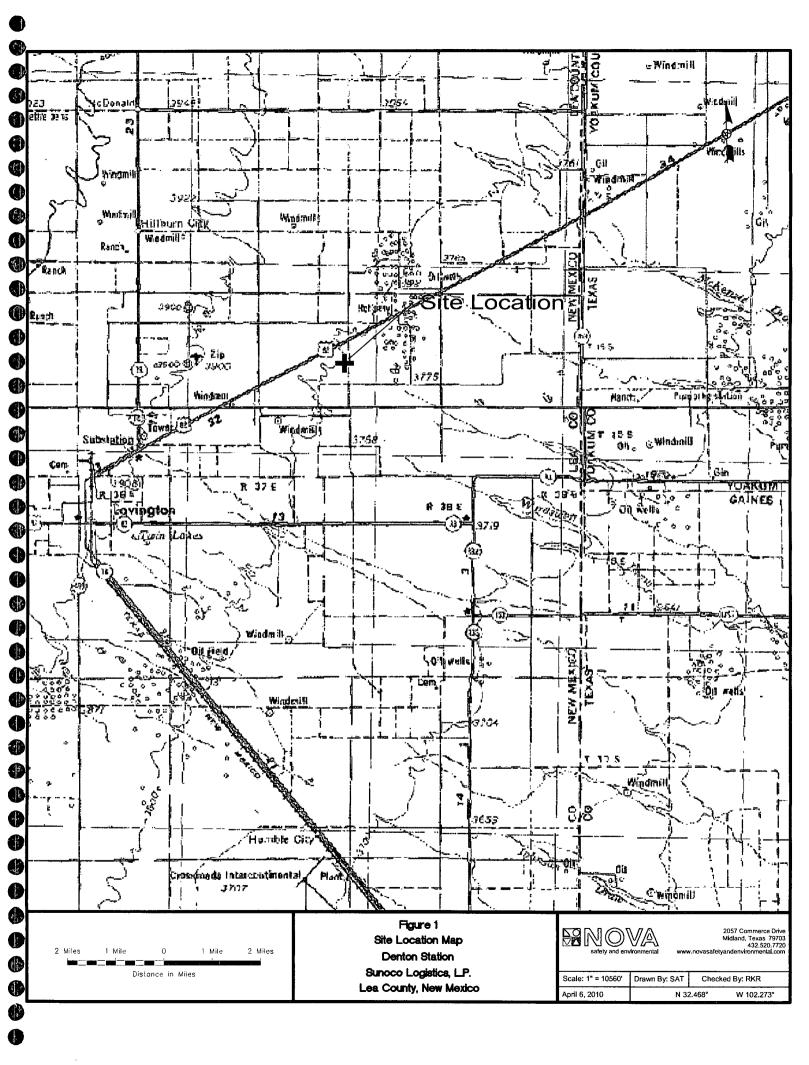
NOVA Safety and Environmental

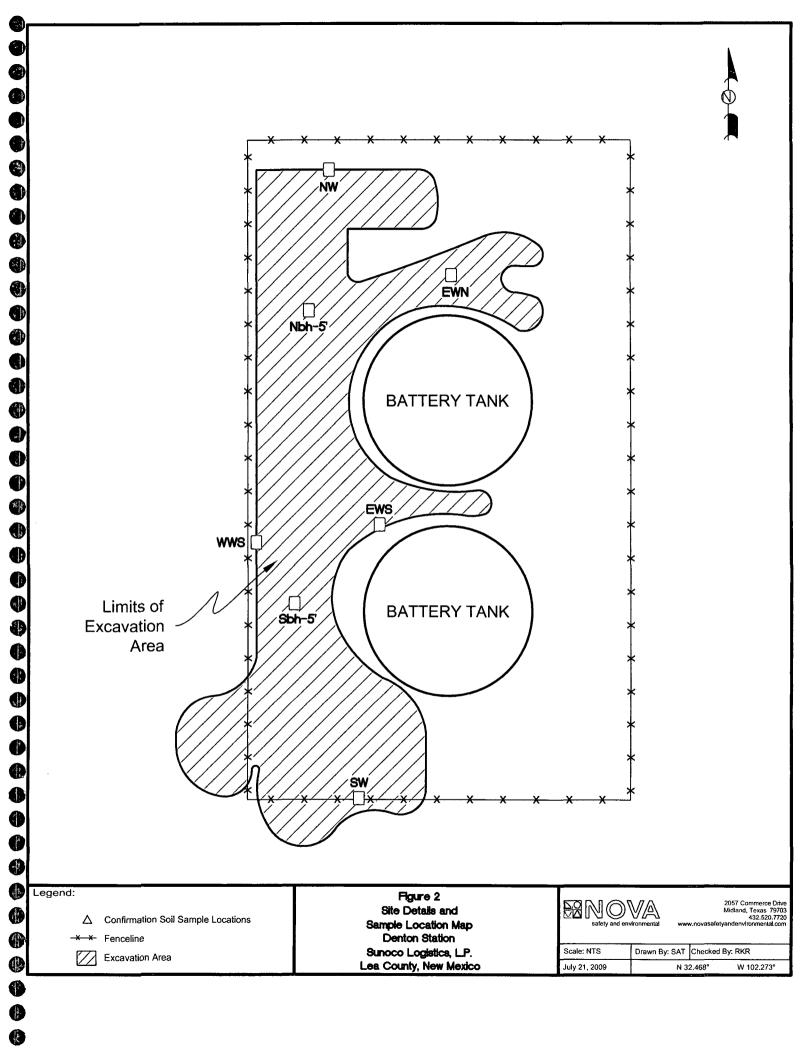
2057 Commerce Street Midland, TX 79703

rrounsaville@novatraining.cc

FIGURES

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TABLES

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TABLE 1

Analytical Results - Confirmation Soil Samples
Sunoco Denton Station
Lea County, New Mexico
Sunoco Logistics

		Laboratory Analyzed By Method 8015B			SW 846-8021B, 5030				
SAMPLE DATE	SAMPLE IDENTIFICATION	TPH (GRO) C ₆ -C ₁₂	TPH (DRO) >C ₁₂ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	Benzene	Toluene	Ethyl- Benzene	Xylene	Total BTEX
06/17/09	NW (North Wall)	<1.00	<50.0	<50.0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
06/17/09	Nbh-5 ft. (North Bottom Hole)	9.97	<50.0	9.97	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
06/17/09	EWN (East Wall North)	8.47	<50.0	8.47	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
06/17/09	EWS (East Wall South)	298	404	702	1.31	11.2	10.4	16.0	38.91
06/17/09	Sbh-5' (South Bottom Hole)	15.1	88.1	103.2	< 0.010	< 0.010	0.106	0.144	0.25
06/17/09	SW (South Wall)	9.86	<50.0	9.86	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
06/17/09	WWS (West Wall South)	<1.00	<50.0	<50.0	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
				Fig. 1. St.					
06/18/09	NSP (North Stockpile)	430	1,690	2,120	< 0.050	6.00	9.91	17.6	33.51
06/18/09	SSP (South Stockpile)	694	3,200	3,894	0.47	10.4	16.7	29.8	57.37
				TO MA				全社 地 影	
06/30/09	NSS1A	22.3	884	906	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
06/30/09	SSS-2A	5.14	801	806	< 0.010	< 0.010	< 0.010	0.283	0.283
02/24/10	NSS-1B	5.2	<50.0	5	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
02/24/10	SSS-2B	<1.00	<50.0	<50.0	< 0.010	< 0.10	< 0.010	< 0.010	< 0.010

APPENDICES

APPENDIX A Laboratory Analytical Report



6701 Aberdeen Avenue, Suite 9 200 East Surset Boad, Suite E

El Paso, Texas 79922 5002 Basin Street, Suite A1 -

806 • 794 • 1296 888 • 588 • 3443 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX:915 • 585 • 4944

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Midland, Texas 79703 Ft. Worth, Texas 76132

Lubbock, Texas 79424

432 • 689 • 6301 817 • 201 • 5260 FAX:432 • 689 • 6313

E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

LELAP-02002

NELAP Certifications

Lubbock:

T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

Kansas E-10317

Analytical and Quality Control Report

Ron Rounsaville

Nova Safety & Environmental

2057 Commerce St.

Midland, TX, 79703

Report Date: July 6, 2009

Work Order:

9061721

Project Location: Lovington, NM

Project Name:

Sunoco Denton Station

Project Number:

Sunoco Denton Station

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

			Date	${f Time}$	Date	
Sample	Description	Matrix	Taken	Taken	Received	
199195	NW	soil	2009-06-17	14:00	2009-06-17	
199197	Nbh-5'	soil	2009-06-17	14:00	2009-06-17	
199199	\mathbf{EWN}	soil	2009-06-17	14:00	2009-06-17	
199200	EWS	soil	2009-06-17	14:00	2009-06-17	
199201	Sbh-5'	soil	2009-06-17	14:00	2009-06-17	
199202	WWS	soil	2009-06-17	14:00	2009-06-17	
199203	SW	soil	2009-06-17	14:00	2009-06-17	

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.

This report consists of a total of 23 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Sunoco Denton Station were received by TraceAnalysis, Inc. on 2009-06-17 and assigned to work order 9061721. Samples for work order 9061721 were received intact without headspace and at a temperature of 23.3 deg. C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	51692	2009-06-18 at 15:32	60595	2009-06-18 at 15:32
BTEX	S 8021B	52140	2009-07-02 at 11:23	61139	2009-07-02 at 11:23
TPH DRO	Mod. 8015B	5169 0	2009-06-18 at 09:30	60591	2009-06-18 at 14:44
TPH DRO	Mod. 8015B	52057	2009-07-01 at 11:00	61062	2009-07-01 at 13:46
TPH GRO	S 8015B	51692	2009-06-18 at 15:32	60596	2009-06-18 at 15:32
TPH GRO	S 8015B	52140	2009-07-02 at 11:23	61140	2009-07-02 at 11:23

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 9061721 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.

Work Order: 9061721 Sunoco Denton Station Page Number: 4 of 23 Lovington, NM

Analytical Report

Sample: 199195 - NW

Laboratory: Midland

Analysis: BTEX QC Batch: 60595 Prep Batch: 51692

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Analytical Method: S 8021B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18

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

RL

		- (
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	m mg/Kg	1	0.0100
Xylene		< 0.0100	${ m mg/Kg}$	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	45.2 - 144.3

Sample: 199195 - NW

Laboratory: Midland

Analysis: TPH DRO QC Batch: 60591 Prep Batch: 51690 Analytical Method: Mod. 8015B
Date Analyzed: 2009-06-18
Sample Preparation: 2009-06-18

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

RL

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

					\mathbf{Spike}	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		95.1	mg/Kg	1	100	95	13.2 - 219.3

Sample: 199195 - NW

Laboratory: Midland

Analysis: TPH GRO QC Batch: 60596 Prep Batch: 51692 Analytical Method: Date Analyzed: Sample Preparation:

S 8015B 2009-06-18 2009-06-18 Prep Method: S 5035 Analyzed By: ME Prepared By: ME

continued ...

(3)

Work Order: 9061721 Sunoco Denton Station Page Number: 5 of 23 Lovington, NM

sample 199195 continued ...

Parameter	Flag		RL Result		Units		Dilution	RL
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			<1,00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (T 4-Bromofluorobenz			2.14 1.41	mg/Kg mg/Kg	1	2.00 2.00	107 70	68.5 - 119.4 52 - 117

Sample: 199197 - Nbh-5'

La	boratory:	Midland

Analysis: BTEXAnalytical Method: S 8021B Prep Method: S 5035QC Batch: Date Analyzed: 2009-06-18 Analyzed By: ME60595 MEPrep Batch: 51692 Sample Preparation: 2009-06-18 Prepared By:

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	m mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	${ m mg/Kg}$	1	0.0100
Xylene		<0.0100	mg/Kg		0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.98	mg/Kg	1	2.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.83	mg/Kg	11	2.00	92	45.2 - 144.3

Sample: 199197 - Nbh-5'

Laboratory: Midland

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 60591 Date Analyzed: 2009-06-18 Analyzed By: AG Prep Batch: 51690 Sample Preparation: 2009-06-18 Prepared By: AG

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

Work Order: 9061721 Sunoco Denton Station Page Number: 6 of 23 Lovington, NM

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		81.8	mg/Kg	1	100	82	13.2 - 219.3

Sample: 199197 - Nbh-5'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 60596 Prep Batch: 51692 Analytical Method: S 8015B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18

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

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		9.97	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.04	mg/Kg	1	2.00	102	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	52 - 117

Sample: 199199 - EWN

Laboratory: Midland

Analysis: BTEX QC Batch: 60595 Prep Batch: 51692 Analytical Method: S 8021B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18 Prep Method: S 5035 Analyzed By: ME Prepared By: ME

		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	m mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

•					Spike	Percent	Recovery
Surrogate	Flag	Result	${ m Units}$	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	45.2 - 144.3

Work Order: 9061721 Sunoco Denton Station Page Number: 7 of 23 Lovington. NM

Sample: 199199 - EWN

. Laboratory: Midland

0

Analysis: TPH DRO QC Batch: 60591 Prep Batch: 51690

Analytical Method: Date Analyzed:

Mod. 8015B 2009-06-18 Sample Preparation: 2009-06-18

Prep Method: N/A Analyzed By: AGPrepared By: AG

RL

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		91.8	mg/Kg	1	100	92	13.2 - 219.3

Sample: 199199 - EWN

Laboratory: Midland

Analysis: TPH GRO QC Batch: 60596 Prep Batch: 51692

Analytical Method: Date Analyzed:

S 8015B 2009-06-18 Sample Preparation: 2009-06-18 Prep Method: S 5035 Analyzed By: ME

Prepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		8.47	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	$\begin{array}{c} { m Recovery} \\ { m Limits} \end{array}$
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.30	mg/Kg	1	2.00	65	52 - 117

Sample: 199200 - EWS

Laboratory: Midland

Analysis: **BTEX** QC Batch: 60595 Prep Batch: 51692

Analytical Method: S 8021B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18

Prep Method: S 5035Analyzed By: MEPrepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene		1.31	mg/Kg	1	0.0100
Toluene		11.2	mg/Kg	1	0.0100
Ethylbenzene		10.4	m mg/Kg	1	0.0100
Xylene		16.0	mg/Kg	1	0.0100

Work Order: 9061721 Sunoco Denton Station Page Number: 8 of 23 Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	49 - 129.7
4-Bromofluorobenzene (4-BFB)	1	3.40	${ m mg/Kg}$	1	2.00	170	45.2 - 144.3

Sample: 199200 - EWS

Laboratory:

Midland

Analysis: QC Batch: TPH DRO 60591

Analytical Method: Date Analyzed:

RL

Mod. 8015B 2009-06-18

Prep Method: N/A Analyzed By: AG

Prep Batch: 51690

Sample Preparation: 2009-06-18

AG Prepared By:

	T-1	D.

Result Parameter Flag DRO 404

Units Dilution RLmg/Kg 50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		95.4	mg/Kg	1	100	95	13.2 - 219.3

Sample: 199200 - EWS

Laboratory:

Midland

Analysis: QC Batch:

Prep Batch: 51692

TPH GRO 60596

Analytical Method: Date Analyzed: Sample Preparation: 2009-06-18

S 8015B 2009-06-18 Prep Method: S 5035 Analyzed By: MEPrepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		298	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.31	mg/Kg	1	2.00	116	68.5 - 119,4
4-Bromofluorobenzene (4-BFB)	2	3.52	mg/Kg	11	2.00	176	52 - 117

Sample: 199201 - Sbh-5'

Laboratory:

Midland

Analysis: **BTEX** QC Batch: 60595 Prep Batch: 51692

Analytical Method: Date Analyzed:

S 8021B 2009-06-18 Sample Preparation: 2009-06-18 Prep Method: S 5035 Analyzed By: MEPrepared By: ME

¹ High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

0

Work Order: 9061721 Sunoco Denton Station Page Number: 9 of 23

 $Lovington,\,NM$

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		0.106	mg/Kg	1	0.0100
Xylene		0.144	mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	45.2 - 144.3

Sample: 199201 - Sbh-5'

Laboratory: Midland

Analysis: TPH DRO QC Batch: 60591 Prep Batch: 51690 Analytical Method: Mod. 8015B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18

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

		RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		88.1	${ m mg/Kg}$	1	50.0

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		105	mg/Kg	1	100	105	13.2 - 219.3

Sample: 199201 - Sbh-5'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 60596 Prep Batch: 51692 Analytical Method: S 8015B
Date Analyzed: 2009-06-18
Sample Preparation: 2009-06-18

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

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
GRO		15.1	mg/Kg	1	1.00

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.10	mg/Kg	1	2.00	105	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	11	2.00	78	52 - 117

Work Order: 9061721 Sunoco Denton Station Page Number: 10 of 23 Lovington, NM

Sample: 199202 - WWS

Laboratory: Midland

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Set.

Analysis: BTEX QC Batch: 61139 Prep Batch: 52140 Analytical Method: S 8021B Date Analyzed: 2009-07-02 Sample Preparation: 2009-07-02 Prep Method: S 5035 Analyzed By: ME Prepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.99	mg/Kg	1	2.00	100	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	45.2 - 144.3

Sample: 199202 - WWS

Laboratory: Midland

Analysis: TPH DRO QC Batch: 61062 Prep Batch: 52057 Analytical Method: Mod. 8015B Date Analyzed: 2009-07-01 Sample Preparation: 2009-07-01

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

RL

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

					$\mathbf{S}_{\mathbf{p}ike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		68.3	mg/Kg	1	100	68	13.2 - 219.3

Sample: 199202 - WWS

Laboratory: Midland

Analysis: TPH GRO QC Batch: 61140 Prep Batch: 52140 Analytical Method: S 8015B Date Analyzed: 2009-07-02 Sample Preparation: 2009-07-02

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

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

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G.

Work Order: 9061721 Sunoco Denton Station Page Number: 11 of 23 Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.46	mg/Kg	1	2.00	73	52 - 117

Sample: 199203 - SW

Laboratory: Midland

Analysis: BTEX QC Batch: 60595 Prep Batch: 51692 Analytical Method: S 8021B Date Analyzed: 2009-06-18 Sample Preparation: 2009-06-18 Prep Method: S 5035 Analyzed By: ME Prepared By: ME

		m RL			
Parameter	Flag	Result	\mathbf{Units}	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.87	mg/Kg	1	2.00	94	45.2 - 144.3

Sample: 199203 - SW

Laboratory: Midland

Analysis: TPH DRO QC Batch: 60591 Prep Batch: 51690 Analytical Method: Mod. 8015B
Date Analyzed: 2009-06-18
Sample Preparation: 2009-06-18

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

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

					Spike	Percent	${ m Recovery}$
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		95.0	m mg/Kg	1	100	95	13.2 - 219.3

Work Order: 9061721 Page Number: 12 of 23 Report Date: July 6, 2009 Sunoco Denton Station Lovington. NM Sunoco Denton Station Sample: 199203 - SW Laboratory: Midland S 8015B Analysis: TPH GRO Analytical Method: Prep Method: S 5035 QC Batch: 60596 Date Analyzed: 2009-06-18 Analyzed By: 2009-06-18 Prep Batch: 51692 Sample Preparation: Prepared By: RLResult Units Dilution Parameter Flag GRO 9.86mg/Kg Spike Percent Dilution Flag Result Units Amount Recovery Surrogate Trifluorotoluene (TFT) 2.09 2.00 104 mg/Kg 1 1 2.00 72 4-Bromofluorobenzene (4-BFB) 1.44 mg/Kg QC Batch: 60591 Method Blank (1) Date Analyzed: 2009-06-18 Analyzed By: QC Batch: 60591 Prep Batch: 51690 QC Preparation: 2009-06-18 Prepared By: MDL Result Units Parameter Flag < 5.86DR.O mg/Kg Percent Spike Surrogate Flag Result Units Dilution Amount Recovery 121 1 100 121 n-Triacontane mg/Kg Method Blank (1) QC Batch: 60595 QC Batch: 60595 Date Analyzed: 2009-06-18 Analyzed By: 51692 2009-06-18 Prepared By: Prep Batch: QC Preparation: MDL Parameter Flag Result Units Benzene < 0.00100 mg/Kg Toluene < 0.00100 mg/Kg < 0.00110 Ethylbenzene mg/Kg

< 0.00360

Dilution

1

1

Units

mg/Kg

mg/Kg

Flag

Result

1.97

1.98

ME

ME

Recovery

Limits

68.5 - 119.4

52 - 117

AG

RL

50

Recovery

Limits

13 - 178.5

ME

ME

RL

0.01

0.01

0.01

0.01

Recovery

Limits

65.6 - 130.6

51.9 - 128.1

mg/Kg

Percent

Recovery

98

99

Spike

Amount

2.00

2.00

RL

1.00

0

0

0

6 0

0

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Xylene

Surrogate

Trifluorotoluene (TFT)

4-Bromofluorobenzene (4-BFB)

Work Order: 9061721 Sunoco Denton Station Page Number: 13 of 23 Lovington. NM

Method Blank (1)

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E.

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OC Batch: 60596

QC Batch: 60596 Prep Batch: 51692

2009-06-18 Date Analyzed: QC Preparation: 2009-06-18

Analyzed By: ME Prepared By: ME

MDL

Parameter Flag Result Units RLGRO < 0.482mg/Kg Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 2.00 2.08 mg/Kg 1 104 71.9 - 115 4-Bromofluorobenzene (4-BFB) 1.61 mg/Kg 1 2.00 80 45.7 - 118.9

Method Blank (1)

QC Batch: 61062

QC Batch: 61062 Prep Batch: 52057 Date Analyzed: 2009-07-01 QC Preparation: 2009-07-01

Analyzed By: AG Prepared By: AG

MDL

Parameter Flag Result Units RL $\overline{\text{DRO}}$ < 5.86 mg/Kg 50

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		83.8	mg/Kg	1	100	84	13 - 178.5

Method Blank (1)

QC Batch: 61139

QC Batch: 61139 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02

Analyzed By: ME Prepared By: ME

MDL Units Parameter Flag Result RL< 0.00100 Benzene mg/Kg 0.01 Toluene < 0.00100 mg/Kg 0.01 Ethylbenzene < 0.00110 mg/Kg 0.01 Xylene < 0.00360 mg/Kg 0.01

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	51.9 - 128.1

Work Order: 9061721 Sunoco Denton Station Page Number: 14 of 23 Lovington, NM

Method Blank (1)

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0 QC Batch: 61140

QC Batch: 61140 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02

Analyzed By: ME Prepared By: ME

MDL

Parameter	Flag	Result	Units	RL
GRO		< 0.482	mg/Kg	1

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.78	mg/Kg	. 1	2.00	89	45.7 - 118.9

Laboratory Control Spike (LCS-1)

QC Batch: 60591 Date Analyzed: 2009-06-18 Analyzed By: AG

Prep Batch: 51690

QC Preparation: 2009-06-18

Prepared By: AG

	LCS			$\mathbf{S}_{\mathbf{p}ike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	241	mg/Kg	1	250	< 5.86	96	57.4 - 133.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	241	mg/Kg	1	250	<5.86	96	57.4 - 133.4	0	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	\mathbf{Units}	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	97.2	99.6	mg/Kg	1	100	97	100	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 60595Prep Batch: 51692 Date Analyzed: 2009-06-18 QC Preparation: 2009-06-18

Analyzed By: ME Prepared By: ME

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{U} nits	Dil.	Amount	Result	Rec.	Limit
Benzene	2.10	mg/Kg	1	2.00	< 0.00100	105	72.7 - 129.8
Toluene	2.09	mg/Kg	1	2.00	< 0.00100	104	71.6 - 129.6
Ethylbenzene	2.04	mg/Kg	1	2.00	< 0.00110	102	70.8 - 129.7
Xylene	6.20	mg/Kg	1	6.00	< 0.00360	103	70.9 - 129.4

Work Order: 9061721 Sunoco Denton Station Page Number: 15 of 23 Lovington. NM

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

	LCSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	2.06	mg/Kg	1	2.00	< 0.00100	103	72.7 - 129.8	2	20
Toluene	2.05	mg/Kg	1	2.00	< 0.00100	102	71.6 - 129.6	2	20
Ethylbenzene	2.08	mg/Kg	1	2.00	< 0.00110	104	70.8 - 129.7	2	20
Xylene	6.36	mg/Kg	1	6.00	< 0.00360	106	70.9 - 129.4	2	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.97	1.97	mg/Kg	1	2.00	98	98	65.9 - 132
4-Bromofluorobenzene (4-BFB)	2.00	1.93	mg/Kg	1	2.00	100	96	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 51692

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60596

Date Analyzed:

2009-06-18 QC Preparation: 2009-06-18

Analyzed By: ME Prepared By: ME

	LCS			\mathbf{Spike}	Matrix		Rec.
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	Limit
GRO	14.1	mg/Kg	1	20.0	< 0.482	70	60.5 - 100.1

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

	LCSD			\mathbf{S} pike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	17.0	mg/Kg	1	20.0	< 0.482	85	60.5 - 100.1	19	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)	1.97	2.08	mg/Kg	1	2.00	98	104	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.58	1.70	mg/Kg	1	2.00	79	85	66.1 - 108.3

Laboratory Control Spike (LCS-1)

QC Batch: 61062 Prep Batch: 52057 Date Analyzed:

2009-07-01 QC Preparation: 2009-07-01

Analyzed By: AG Prepared By: AG

	LCS	٠		$\mathbf{S}_{\mathbf{p}ike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	213	mg/Kg	11	250	< 5.86	85	57.4 - 133.4

Work Order: 9061721 Sunoco Denton Station Page Number: 16 of 23 Lovington, NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	235	mg/Kg	1	250	< 5.86	94	57.4 - 133.4	10	20

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

	LCS	LCSD			\mathbf{S} pike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	89.0	81.5	mg/Kg	1	100	89	82	48.5 - 146.7

Laboratory Control Spike (LCS-1)

QC Batch: 61139 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02 Analyzed By: ME Prepared By: ME

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit
Benzene	1.86	mg/Kg	1	2.00	< 0.00100	93	72.7 - 129.8
Toluene	1.84	mg/Kg	1	2.00	< 0.00100	92	71.6 - 129.6
Ethylbenzene	1.83	mg/Kg	1	2.00	< 0.00110	92	70.8 - 129.7
Xylene	5.44	mg/Kg	1	6.00	< 0.00360	91	70.9 - 129.4

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1 atalli	neaut	Omto	יוום.	Amount	Treatit	11.00.	Limit		1.11111
Benzene	1.88	mg/Kg	1	2.00	< 0.00100	94	72.7 - 129.8	1	20
Toluene	1.87	mg/Kg	1	2.00	< 0.00100	94	71.6 - 129.6	2	20
Ethylbenzene	1.92	mg/Kg	1	2.00	< 0.00110	96	70.8 - 129.7	5	20
Xylene	5.73	mg/Kg	1	6.00	< 0.00360	96	70.9 - 129.4	5	20

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

	LCS	LCSD			$\mathbf{S}_{\mathbf{P}^{\mathbf{i}}\mathbf{k}\mathbf{e}}$	LCS	LCSD	Rec.
Surrogate	Result	Result	\mathbf{Units}	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.01	1.99	mg/Kg	1	2.00	100	100	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.78	1.78	mg/Kg	1	2.00	89	89	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch: 61140 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02 Analyzed By: ME Prepared By: ME

	LCS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	14.0	mg/Kg	1	20.0	< 0.482	70	60.5 - 100.1

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Work Order: 9061721 Sunoco Denton Station Page Number: 17 of 23 Lovington, NM

Param Result Units Dil, Amount Result Rec. Limit RPD Limit GRO 15.9 mg/Kg 1 20.0 <0.482 80 60.5 - 100.1 13 20 Percent recovery is based on the spike result. RPD Rec. LCS LCSD Rec. Limit Result Result Limit Result			LCSD			Spike	Mat	trix		Rec.		RPD
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.	Param			Units	Dil.	-			c.		RPD	
Surrogate	GRO			mg/Kg		20.0	<0.					
Surrogate	Percent recovery is based	l on the sr	oike result.	RPD is b	ased or	the spike	e and st	oike duplic	cate res	sult.		
Surrogate Result Result Units Dil, Amount Rec. Rec. Limit												
Trifluorotoluene (TFT)	a					** **	ъ.,					
### Analyzed By: AG Prep Batch: 51690 Date Analyzed: 2009-06-18 Analyzed By: AG Prep Batch: 51690 QC Preparation: 2009-06-18 Analyzed By: AG Prep Batch: 51690 QC Preparation: 2009-06-18 Analyzed By: AG Prep Batch: 51690 QC Preparation: 2009-06-18 Analyzed By: AG Prep Batch: 51690 QC Preparation: 2009-06-18 Analyzed By: AG Prepared By: AG Prepar												
Matrix Spike (MS-1) Spiked Sample: 199203 Spike Spike Spike Matrix Spike Spike Matrix Spike Spike Spike Matrix Spike Spike Spike Spike Matrix Spike		DED)										
Date Analyzed: 2009-06-18 Analyzed By: AG	4-Bromonuorobenzene (4	-BFB)	1.80	1.96) []	ng/Kg	<u>-</u>	2.00	93	98	1.00	- 108.3
Prep Batch: 51690 QC Preparation: 2009-06-18 Prepared By: AG	Matrix Spike (MS-1)	Spiked	Sample: 19	9203								
Prep Batch: 51690 QC Preparation: 2009-06-18 Prepared By: AG	OC Batch: 60591			Date An:	alvzed:	2009-0	6-18			Anal	lyzed Ry	· AG
Param					•/							
Param Result Units Dil. Amount Result Rec. Limit DRO 196 mg/Kg 1 250 <5.86 78 35.2 - 167.1 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.	- 1			- , ,						-	_,,	
Param Result Units Dil. Amount Result Rec. Limit DRO 196 mg/Kg 1 250 <5.86 78 35.2 - 167.1 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.			MS				Sni	ke]	Matrix		F	Rec
DRO	Param			lt U	nits	Dil.	-			Rec.		
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Result Units Dil. Amount Result Rec. Limit RPD Limit DRO 232 mg/Kg 1 250 <5.86 93 35.2 - 167.1 17 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. RPD Rec. Rec. RPD Rec. Rec. RPD Rec. Rec. Rec. RPD Rec. Rec	DRO											
Param Result Units Dil. Amount Result Rec. Limit RPD Limit	Percent recovery is based	l on the sr	oike result.	<u>`</u>	"_ ``	the spike	e and st	nike duplie	rate res	sult.		
Param Result Units Dil. Amount Result Rec. Limit RPD Limit DRO 232 mg/Kg 1 250 <5.86 93 35.2 - 167.1 17 20 Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.	- to the town they he was	. 022 0100 107				_	_	_				
DRO 232 mg/Kg 1 250 <5.86 93 35.2 - 167.1 17 20												
Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result. MS MSD Rec. Surrogate Result Result Units Dil. Amount Rec. Rec. Limit Rec. Rec. Rec. Limit Rec.												
MS MSD Rec. Surrogate Result Result Units Dil. Amount Rec. Rec. Limit												20
Surrogate Result Result Units Dil. Amount Rec. Rec. Limit	Percent recovery is based	l on the sp	oike result.	RPD is b	ased or	the spike	e and sp	oike duplic	cate res	ult.		
Surrogate Result Result Units Dil. Amount Rec. Rec. Limit In-Triacontane 82.4 88.8 mg/Kg 1 100 82 89 34.5 - 178.4 Matrix Spike (MS-1) Spiked Sample: 199203 QC Batch: 60595 Date Analyzed: 2009-06-18 Analyzed By: ME Prep Batch: 51692 QC Preparation: 2009-06-18 Prepared By: ME Param MS		MS	MSD				Spi	ike	MS	MSD	F	Rec.
Matrix Spike (MS-1) Spiked Sample: 199203	Surrogate	Result	Result	Un	iits	Dil.	-					
QC Batch: 60595 Date Analyzed: 2009-06-18 Analyzed By: ME Prep Batch: 51692 QC Preparation: 2009-06-18 Prepared By: ME Param Result Units Dil. Amount Result Rec. Limit Benzene 2.08 mg/Kg 1 2.00 <0.00100	n-Triacontane	82.4	88.8	mg,	/Kg	1	10	00	82	89	34.5	- 178.4
MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Benzene 2.08 mg/Kg 1 2.00 <0.00100	Matrix Spike (MS-1)	Spiked	•		alwad.	2009-0	6-18			Δnal	wand Bu	· MF
MS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Benzene 2.08 mg/Kg 1 2.00 <0.00100	9				•/						•,	
Param Result Units Dil. Amount Result Rec. Limit Benzene 2.08 mg/Kg 1 2.00 <0.00100										TICh	чиски шу.	, IVIII
Param Result Units Dil. Amount Result Rec. Limit Benzene 2.08 mg/Kg 1 2.00 <0.00100	110p Datesti ()1002			QU I I I I						-		
Benzene 2.08 mg/Kg 1 2.00 <0.00100 104 58.6 - 165.2 Toluene 2.08 mg/Kg 1 2.00 <0.00100	Trop Batem, 91002		MS	Q O 1 10p			Snike	e 1	Matrix		Ţ	
Toluene 2.08 mg/Kg 1 2.00 <0.00100 104 64.2 - 153.8 Ethylbenzene 2.03 mg/Kg 1 2.00 <0.00110 102 61.6 - 159.4	-					Dil.				Rec.	_	Rec.
	Param Benzene		Result	t Un	iits		Amou	nt I	Result		L	Rec. imit
<u>Xylene</u> 6.13 mg/Kg 1 6.00 <0.00360 102 64.4 - 155.3	Param Benzene Toluene		2.08 2.08	t Un	iits /Kg	1	Amou 2.00 2.00	nt I <(<(Result 0.00100 0.00100	104 104	L 58.6	Rec. imit - 165.2
	Param Benzene Toluene Ethylbenzene		2.08 2.08 2.03	t Un mg, mg, mg,	iits /Kg /Kg /Kg	1 1 1	2.00 2.00 2.00	nt I <(<(<(Result 0.00100 0.00100 0.00110	104 104 102	58.6 64.2 61.6	Rec. imit - 165.2 - 153.8 - 159.4

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Work Order: 9061721 Sunoco Denton Station Page Number: 18 of 23 Lovington, NM

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matrix	SDIKES	continuea	

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	2.01	mg/Kg	1	2.00	< 0.00100	100	58.6 - 165.2	3	20
Toluene	2.00	mg/Kg	1	2.00	< 0.00100	100	64.2 - 153.8	4	20
Ethylbenzene	2.02	mg/Kg	1	2.00	< 0.00110	101	61.6 - 159.4	0	20
Xylene	6.11	mg/Kg	1	6.00	< 0.00360	102	64.4 - 155.3	0	20

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

	MS	MSD			Spike	MS	MSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.07	1.99	mg/Kg	1	2	104	100	76 - 127.9
4-Bromofluorobenzene (4-BFB)	1.81	1.70	mg/Kg	1	2	90	85	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 199226

QC Batch: 60596 Prep Batch: 51692 Date Analyzed: 2009-06-18 QC Preparation: 2009-06-18 Analyzed By: ME Prepared By: ME

	MS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	20.2	mg/Kg	1	20.0	4.794	77	12.8 - 175.2

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	3	35.6	mg/Kg	1	20.0	4.794	154	12.8 - 175.2	55	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.06	2.27	mg/Kg	1	2	103	114	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.43	1.50	m mg/Kg	1	2	72	75	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 199202

QC Batch: 61062 Prep Batch: 52057 Date Analyzed: 2009-07-01 QC Preparation: 2009-07-01 Analyzed By: AG Prepared By: AG

³MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 9061721 Sunoco Denton Station Page Number: 19 of 23 Lovington. NM

	MS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	192	mg/Kg	1	250	< 5.86	77	35.2 - 167.1

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	193	mg/Kg	1	250	< 5.86	77	35.2 - 167.1	0	20

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

	MS	MSD			$\mathbf{S}_{\mathbf{p}ike}$	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	64.7	64.5	mg/Kg	1	100	65	64	34.5 - 178.4

Matrix Spike (MS-1)

Spiked Sample: 200840

QC Batch: 61139 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02

Analyzed By: ME Prepared By: ME

	MS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit
Benzene	1.76	mg/Kg	1	2.00	< 0.00100	88	58.6 - 165.2
Toluene	1.71	mg/Kg	1	2.00	< 0.00100	86	64.2 - 153.8
Ethylbenzene	1.71	mg/Kg	1	2.00	< 0.00110	86	61.6 - 159.4
Xylene	4.92	mg/Kg	1 ,	6.00	0.283	77	64.4 - 155.3

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	$\mathbf{U}\mathbf{nits}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.73	mg/Kg	1	2.00	< 0.00100	86	58.6 - 165.2	2	20
Toluene	1.71	mg/Kg	1	2.00	< 0.00100	86	64.2 - 153.8	0	20
Ethylbenzene	1.78	mg/Kg	1	2.00	< 0.00110	89	61.6 - 159.4	4	20
Xylene	5.10	mg/Kg	1	6.00	0.283	80	64.4 - 155.3	4	20

	MS	MSD			Spike	$_{ m MS}$	$\overline{\text{MSD}}$	Rec.
Surrogate	Result	Result	$\mathbf{U}_{\mathbf{nits}}$	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.96	1.91	mg/Kg	1	2	98	96	76 - 127.9
4-Bromofluorobenzene (4-BFB) ⁴	⁵ 1.38	1.40	mg/Kg	1	2	69	70	72 - 127.8

⁴Surrogate out due to peak interference.

⁵Surrogate out due to peak interference.

Work Order: 9061721 Sunoco Denton Station Page Number: 20 of 23 Lovington, NM

Matrix Spike (MS-1)

Spiked Sample: 200839

QC Batch: 61140 Prep Batch: 52140

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Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02 Analyzed By: ME Prepared By: ME

	MS			\mathbf{S} pike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	41.3	mg/Kg	1	20.0	22.3002	95	12.8 - 175.2

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

	MSD			$\mathbf{S}_{\mathbf{p}ike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	35.9	mg/Kg	1	20.0	22.3002	68	12.8 - 175.2	14	20

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

	MS	MSD	•		\mathbf{Spike}	MS	MSD	Rec.
Surrogate	Result	Result	$\mathbf{U}\mathbf{nits}$	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.10	2.08	mg/Kg	1	2	105	104	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.54	1.44	${ m mg/Kg}$	1	2	77	72	31.3 - 161.7

Standard (CCV-1)

QC Batch: 60591

Date Analyzed: 2009-06-18

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	211.	84	80 - 120	2009-06-18

Standard (CCV-2)

QC Batch: 60591

Date Analyzed: 2009-06-18

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	· Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	258	103	80 - 120	2009-06-18

Standard (CCV-2)

QC Batch: 60595

Date Analyzed: 2009-06-18

Analyzed By: ME

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Work Order: 9061721 Sunoco Denton Station Page Number: 21 of 23 Lovington, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.108	108	80 - 120	2009-06-18
Toluene		mg/Kg	0.100	0.109	109	80 - 120	2009-06-18
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2009-06-18
Xylene		mg/Kg	0.300	0.314	105	80 - 120	2009-06-18

Standard (CCV-3)

QC Batch: 60595

Date Analyzed: 2009-06-18

Analyzed By: ME

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.107	107	80 - 120	2009-06-18
Toluene		mg/Kg	0.100	0.101	101	80 - 120	2009-06-18
Ethylbenzene		mg/Kg	0.100	0.0985	98	80 - 120	2009-06-18
Xylene	_	mg/Kg	0.300	0.304	101	80 - 120	2009-06-18

Standard (CCV-2)

QC Batch: 60596

Date Analyzed: 2009-06-18

Analyzed By: ME

			CCVs True	$\begin{array}{c} {\sf CCVs} \\ {\sf Found} \end{array}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
$\overline{\text{GRO}}$		mg/Kg	1.00	1.00	100	80 - 120	2009-06-18

Standard (CCV-3)

QC Batch: 60596

Date Analyzed: 2009-06-18

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		$_{ m mg/Kg}$	1.00	0.954	95	80 - 120	2009-06-18

Standard (CCV-3)

QC Batch: 61062

Date Analyzed: 2009-07-01

Analyzed By: AG

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Work Order: 9061721 Sunoco Denton Station Page Number: 22 of 23 Lovington, NM

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	238	95	80 - 120	2009-07-01

Standard (CCV-4)

QC Batch: 61062

Date Analyzed: 2009-07-01

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	214	86	80 - 120	2009-07-01

Standard (CCV-1)

QC Batch: 61139

Date Analyzed: 2009-07-02

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.100	100	80 - 120	2009-07-02
Toluene		${ m mg/Kg}$	0.100	0.100	100	80 - 120	2009-07-02
Ethylbenzene		mg/Kg	0.100	0.104	104	80 - 120	2009-07-02
Xylene		mg/Kg	0.300	0.312	104	80 - 120	2009-07-02

Standard (CCV-2)

QC Batch: 61139

Date Analyzed: 2009-07-02

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0934	93	80 - 120	2009-07-02
Toluene		mg/Kg	0.100	0.0914	91	80 - 120	2009-07-02
Ethylbenzene		mg/Kg	0.100	0.0897	90	80 - 120	2009-07-02
Xylene		mg/Kg	0.300	0.266	89	80 - 120	2009-07-02

Standard (CCV-1)

QC Batch: 61140

Date Analyzed: 2009-07-02

Analyzed By: ME

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Work Order: 9061721 Sunoco Denton Station Page Number: 23 of 23 Lovington, NM

			${ m CCVs} \ { m True}$	$\begin{array}{c} { m CCVs} \\ { m Found} \end{array}$	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.997	100	80 - 120	2009-07-02

Standard (CCV-2)

QC Batch: 61140

Date Analyzed: 2009-07-02

Analyzed By: ME

			CCVs	CCVs	CCVs	Percent	
			${f True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.09	109	80 - 120	2009-07-02

LAB Order ID#

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298

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	ernan, lab@tracea	maiysi	S.COII	I					1	(800) 3	78-1	296								1 ((888)	588-	3443	5								
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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Sulte-E

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Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock:

T104704219-08-TX

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003 Kansas E-10317 LELAP-02002

Analytical and Quality Control Report

Ron Rounsaville

Nova Safety & Environmental

2057 Commerce St. Midland, TX, 79703 Report Date: July 6, 2009

Work Order:

9070124

Project Location: Lovington. NM

Project Name: Project Number:

Sunoco Denton Station Sunoco Denton Station

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
200839	NSS-1A	soil	2009-06-30	13:49	2009-07-01
200840	SSS-2A	soil	2009-06-30	13:56	2009-07-01

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.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis. Inc.

Jaylo

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 $\, B \,$ - $\,$ The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Sunoco Denton Station were received by TraceAnalysis, Inc. on 2009-07-01 and assigned to work order 9070124. Samples for work order 9070124 were received intact without headspace and at a temperature of -5.6 deg. C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	52140	2009-07-02 at 11:23	61139	2009-07-02 at 11:23
TPH DRO	Mod. 8015B	52057	2009-07-01 at 11:00	61062	2009-07-01 at 13:46
TPH GRO	S 8015B	52140	2009-07-02 at 11:23	61140	2009-07-02 at 11:23

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 9070124 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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DRO

Work Order: 9070124 Sunoco Denton Station Page Number: 4 of 11 Lovington. NM

Analytical Report

Sample: 200839 - NSS-1A

Laboratory: Midland

Analysis: **BTEX** QC Batch: 61139 Prep Batch: 52140

Analytical Method: S 8021B Date Analyzed: 2009-07-02 Sample Preparation: 2009-07-02

Prep Method: S 5035 Analyzed By: MEPrepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	m mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					Spike	Percent	Recovery
Surrogate	Flag	Result	${ m Units}$	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.40	${ m mg/Kg}$	1	2.00	70	45.2 - 144.3

Sample: 200839 - NSS-1A

Laboratory: Midland

Analysis: TPH DRO QC Batch: 61062 Prep Batch: 52057

Analytical Method: Mod. 8015B 2009-07-01 Date Analyzed: Sample Preparation: 2009-07-01

Prep Method: N/A Analyzed By: AGPrepared By: AG

Parameter Flag

RLDilution Result Units RL884 mg/Kg 50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		181	mg/Kg	1	100	181	13.2 - 219.3

Sample: 200839 - NSS-1A

Laboratory: Midland

Analysis: TPH GRO QC Batch: 61140 Prep Batch: 52140

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015B 2009-07-02 2009-07-02 Prep Method: S 5035 Analyzed By: MEPrepared By: ME

continued ...

Report	Date:	July	6,	2009
Sunoco	Dento	n Sta	atio	n

Work Order: 9070124 Sunoco Denton Station Page Number: 5 of 11 Lovington. NM

sample	200839	continued			
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			RL					
Parameter	Flag		Result		Units		Dilution	RL
			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			22.3		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	68.5 - 119.4
4-Bromofluorobenzene	(4-BFB)		1.59	mg/Kg	1	2.00	80	52 - 117

Sample: 200840 - SSS-2A

La	bor	atory:	Midland
	_	_	

Analysis: BTEX QC Batch: 61139 Prep Batch: 52140 Analytical Method: S 8021B Date Analyzed: 2009-07-02 Sample Preparation: 2009-07-02 Prep Method: S 5035 Analyzed By: ME Prepared By: ME

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	m mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	${ m mg/Kg}$	1	0.0100
Xylene		0.283	mg/Kg	1	0.0100

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.32	mg/Kg	1	2.00	66	45.2 - 144.3

Sample: 200840 - SSS-2A

Laboratory: Midland

Analysis: TPH DRO QC Batch: 61062 Prep Batch: 52057 Analytical Method: Mod. 8015B
Date Analyzed: 2009-07-01
Sample Preparation: 2009-07-01

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

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		801	mg/Kg	1	50.0

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Work Order: 9070124 Sunoco Denton Station Page Number: 6 of 11 Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		185	mg/Kg	1	100	185	13.2 - 219.3

Sample: 200840 - SSS-2A

Laboratory: Midland

Analysis: TPH GRO QC Batch: 61140 Prep Batch: 52140

Analytical Method: S 8015B Date Analyzed:

2009-07-02 Sample Preparation: 2009-07-02 Prep Method: S 5035

Analyzed By: MEPrepared By: ME

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		5.14	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.84	mg/Kg	1	2.00	92	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	11	2.00	69	52 - 117

Method Blank (1)

QC Batch: 61062

QC Batch: 61062 Prep Batch: 52057 Date Analyzed: 2009-07-01 QC Preparation: 2009-07-01

Analyzed By: AG Prepared By: AG

MDL

Parameter	Flag	Result	Units	RL
DRO		< 5.86	mg/Kg	50

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		83.8	mg/Kg	1	100	84	13 - 178.5

Method Blank (1)

QC Batch: 61139

QC Batch: 61139 Prep Batch: 52140 Date Analyzed: 2009-07-02 2009-07-02 QC Preparation:

Analyzed By: ME Prepared By: ME

MDL

		THE		
Parameter	Flag	Result	Units	RL
Benzene		< 0.00100	mg/Kg	0.01
Toluene		<0.00100	m mg/Kg	0.01
Ethylbenzene		<0.00110	mg/Kg	0.01

continued ...

Work Order: 9070124 Sunoco Denton Station Page Number: 7 of 11 Lovington, NM

method blank continued ...

MDL

Parameter	Flag		Result			Units		
Xylene			< 0.003	60	mg,	/Kg	0.01	
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)		1.96	mg/Kg	1	2.00	98	65.6 - 130.6	
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	51.9 - 128.1	

Method Blank (1)

1

QC Batch: 61140

QC Batch: 61140 Prep Batch: 52140 Date Analyzed: 2009-07-02 QC Preparation: 2009-07-02 Analyzed By: ME

Prepared By: ME

MDL

Parameter	Flag	Result	Units	RL
GRO		< 0.482	mg/Kg	1

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	71.9 - 115
4-Bromofluorobenzene (4-BFB)		1.78	mg/Kg	1	2.00	89	45.7 - 118.9

Laboratory Control Spike (LCS-1)

QC Batch: 61062 Prep Batch: 52057 Date Analyzed: QC Preparation:

2009-07-01 2009-07-01 Analyzed By: AG Prepared By: AG

LCS Spike Matrix Rec. Param Result Dil. Result Limit Units Amount Rec. $\overline{\text{DRO}}$ 213 mg/Kg 250 < 5.86 85 57.4 - 133.4

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

	LCSD			Spike	Matrix		Rec.		R.P.D
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	235	mg/Kg	1	250	< 5.86	94	57.4 - 133.4	10	20

	LCS	LCSD			\mathbf{Spike}	LCS	LCSD	Rec.
Surrogate	Result	Result	${f Units}$	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	89.0	81.5	mg/Kg	1	100	89	82	48.5 - 146.7

Work Order: 9070124 Sunoco Denton Station Page Number: 8 of 11 Lovington, NM

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 52140

61139

Date Analyzed: QC Preparation: 2009-07-02

2009-07-02

Analyzed By: ME Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.86	mg/Kg	1	2.00	< 0.00100	93	72.7 - 129.8
Toluene	1.84	mg/Kg	1	2.00	< 0.00100	92	71.6 - 129.6
Ethylbenzene	1.83	mg/Kg	1	2.00	< 0.00110	92	70.8 - 129.7
Xylene	5.44	mg/Kg	1	6.00	< 0.00360	91	70.9 - 129.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.88	mg/Kg	1	2.00	< 0.00100	94	72.7 - 129.8	1	20
Toluene	1.87	mg/Kg	1	2.00	< 0.00100	94	71.6 - 129.6	2	20
Ethylbenzene	1.92	mg/Kg	1	2.00	< 0.00110	96	70.8 - 129.7	5	20
Xylene	5.73	mg/Kg	1	6.00	< 0.00360	96	70.9 - 129.4	5	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.01	1.99	mg/Kg	1	2.00	100	100	65.9 - 132
4-Bromofluorobenzene (4-BFB)	1.78	1.78	mg/Kg	1	2.00	89	89	55.2 - 128.9

Laboratory Control Spike (LCS-1)

QC Batch:

61140

Prep Batch: 52140

Date Analyzed:

2009-07-02

QC Preparation: 2009-07-02

Analyzed By: ME Prepared By: ME

LCS Spike Matrix Rec. Rec. Result Units Dil. Amount Result Limit Param 60.5 - 100.1 14.0 20.0 < 0.482 70 GRO mg/Kg

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	15.9	mg/Kg	1	20.0	< 0.482	80	60.5 - 100.1	13	20

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	${ m Units}$	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.96	1.96	mg/Kg	1	2.00	98	98	78.8 - 104.7
4-Bromofluorobenzene (4-BFB)	1.86	1.95	mg/Kg	1	2.00	93	98	66.1 - 108.3

Work Order: 9070124 Sunoco Denton Station Page Number: 9 of 11 Lovington, NM

Matrix Spike (MS-1)

Spiked Sample: 199202

QC Batch:

61062

Date Analyzed:

2009-07-01

Analyzed By: AG

Prep Batch: 52057

0

0

QC Preparation:

2009-07-01

Prepared By: AG

	MS			$\mathbf{S}_{\mathbf{p}ike}$	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	192	mg/Kg	1	250	< 5.86	77	35.2 - 167.1

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	193	mg/Kg	1	250	< 5.86	77	35.2 - 167.1	0	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	64.7	64.5	mg/Kg	1	100	65	64	34.5 - 178.4

Matrix Spike (MS-1)

Spiked Sample: 200840

QC Batch: 61139 Prep Batch: 52140 Date Analyzed: QC Preparation: 2009-07-02

2009-07-02

Analyzed By: ME

Prepared By: ME

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.76	mg/Kg	1	2.00	< 0.00100	88	58.6 - 165.2
Toluene	1.71	mg/Kg	1	2.00	< 0.00100	86	64.2 - 153.8
Ethylbenzene	1.71	mg/Kg	1	2.00	< 0.00110	86	61.6 - 159.4
Xylene	4.92	mg/Kg	1	6.00	0.283	77	64.4 - 155.3

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.73	mg/Kg	1	2.00	< 0.00100	86	58.6 - 165.2	2	20
Toluene	1.71	mg/Kg	1	2.00	< 0.00100	86	64.2 - 153.8	0	20
Ethylbenzene	1.78	mg/Kg	1	2.00	< 0.00110	89	61.6 - 159.4	4	20
Xylene	5.10	${ m mg/Kg}$	1	6.00	0.283	80	64.4 - 155.3	4	20

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

	MS	MSD			$\mathbf{S}_{\mathbf{P}^{\mathbf{i}}\mathbf{k}\mathbf{e}}$	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.96	1.91	mg/Kg	1	2	98	96	76 - 127.9

continued ...

Work Order: 9070124 Sunoco Denton Station Page Number: 10 of 11 Lovington, NM

matrix spikes continued ...

		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	\mathbf{Units}	Dil.	Amount	Rec.	Rec.	Limit
4-Bromofluorobenzene (4-BFB)	1 2	1.38	1.40	mg/Kg	1	2	69	70	72 - 127.8

Matrix Spike (MS-1) Spiked Sample: 200839

QC Batch: 61140 Date Analyzed:

2009-07-02

Analyzed By: ME

Prep Batch: 52140

QC Preparation: 2009-07-02

Prepared By: ME

	MS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	41.3	mg/Kg	1	20.0	22.3002	95	12.8 - 175.2

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

•	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	35.9	mg/Kg	1	20.0	22.3002	68	12.8 - 175.2	14	20

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

	MS	MSD			\mathbf{Spike}	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.10	2.08	mg/Kg	1	2	105	104	60.8 - 132.1
4-Bromofluorobenzene (4-BFB)	1.54	1.44	mg/Kg	1	2	77	72	31.3 - 161.7

Standard (CCV-3)

QC Batch: 61062

Date Analyzed: 2009-07-01

Analyzed By: AG

			${ m CCVs} \ { m True}$	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	$\operatorname{Limits}^{"}$	Analyzed
DRO		mg/Kg	250	238	95	80 - 120	2009-07-01

Standard (CCV-4)

QC Batch: 61062

Date Analyzed: 2009-07-01

Analyzed By: AG

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	214	86	80 - 120	2009-07-01

¹Surrogate out due to peak interference.

²Surrogate out due to peak interference.

Work Order: 9070124 Sunoco Denton Station Page Number: 11 of 11 Lovington, NM

Standard (CCV-1)

0

0

0

 QC Batch: 61139

Date Analyzed: 2009-07-02

Analyzed By: ME

			${ m CCVs} \ { m True}$	${ m CCVs} \ { m Found}$	${ m CCVs} \ { m Percent}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.100	100	80 - 120	2009-07-02
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2009-07-02
Ethylbenzene		mg/Kg	0.100	0.104	104	80 - 120	2009-07-02
Xylene		mg/Kg	0.300	0.312	104	80 - 120	2009-07-02

Standard (CCV-2)

QC Batch: 61139

Date Analyzed: 2009-07-02

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene	11115	mg/Kg	0.100	0.0934	93	80 - 120	2009-07-02
Toluene		mg/Kg	0.100	0.0914	91	80 - 120	2009-07-02
Ethylbenzene		mg/Kg	0.100	0.0897	90	80 - 120	2009-07-02
Xylene		mg/Kg	0.300	0.266	89	80 - 120	2009-07-02

Standard (CCV-1)

QC Batch: 61140

Date Analyzed: 2009-07-02

Analyzed By: ME

Param	Flor	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzad
	Flag	Onits	Солс.	Conc.	necovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.997	100	80 - 120	2009-07-02

Standard (CCV-2)

QC Batch: 61140

Date Analyzed: 2009-07-02

Analyzed By: ME

Param	Flag	Units	True Conc.	Found Conc.	Percent Recovery	Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	80 - 120	2009-07-02

LAB Order ID#

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Page	or	

TraceAnalysis, Inc.

email: lab@traceanalvsis.com

6701 Aberdeen Avenus, Suite 9 **Lubbock, Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 5002 Basin Street, Sulte A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313 200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 685-3443 Fax (915) 585-4944 1 (888) 588-3443 6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

Company Name:			Phone #:										ANALYSIS REQUEST																					
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5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Midland, Texas 79703

915 • 585 • 3443 432 • 689 • 6301 FAX 432 • 689 • 6313

E-Mail: lab@traceanalysis.com

817 • 201 • 5260

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St. Midland, TX, 79703

Report Date: March 1, 2010

Work Order:

10022524

Project Location: Lovington. NM

Project Name:

Sunoco Denton Station

Project Number:

Sunoco Denton Station

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

			Date	${f Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
223680	NSS-1B	soil	2010-02-24	13:26	2010-02-25
223681	SSS-2B	soil	2010-02-24	13:00	2010-02-25

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.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Sunoco Denton Station were received by TraceAnalysis, Inc. on 2010-02-25 and assigned to work order 10022524. Samples for work order 10022524 were received intact at a temperature of 2.1 C.

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

1

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	58062	2010-02-26 at 11:00	67879	2010-02-27 at 14:44
TPH DRO - NEW	Mod. 8015B	58044	2010-02-25 at 10:56	67849	2010-02-25 at 10:56
TPH GRO	S 8015B	58062	2010-02-26 at 11:00	67877	2010-02-27 at 15:12

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 10022524 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.

Work Order: 10022524 Sunoco Denton Station Page Number: 4 of 11 Lovington, NM

Analytical Report

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: BTEX QC Batch: 67879 Prep Batch: 58062 Analytical Method: S 8021B Date Analyzed: 2010-02-27 Sample Preparation: 2010-02-26

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

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1 .	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	- · · · · · · · · · · · · · · · · · · ·	1.88	mg/Kg	1	2.00	94	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		2.09	mg/Kg	1	2.00	104	43.1 - 158.4

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 67849
Prep Batch: 58044

Analytical Method: Mod. 8015B Date Analyzed: 2010-02-25 Sample Preparation: 2010-02-25

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

RΤ

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: TPH GRO
QC Batch: 67877
Prep Batch: 58062

Analytical Method: S 8015B Date Analyzed: 2010-02-27 Sample Preparation: 2010-02-26 Prep Method: S 5035 Analyzed By: AG Prepared By: AG

continued ...

Report Date: March 1, 2010 Work Order: 10022524 Sunoco Denton Station Sunoco Denton Station sample 223680 continued ... 1 Sample: 223681 - SSS-2B Laboratory: Midland Analytical Method: Analysis: **BTEX** QC Batch: 67879 Date Analyzed: Prep Batch: 58062 RLParameter Flag Result Benzene < 0.0100 Toluene < 0.0100 Ethylbenzene < 0.0100 Xylene < 0.0100 Sample: 223681 - SSS-2B Laboratory: Midland Analysis: TPH DRO - NEW Analytical Method: QC Batch: 67849 Date Analyzed: 0 Prep Batch: 58044 Sample Preparation: RL**(** Result Parameter Flag **DRO** <50.0

Page Number: 5 of 11

Lovington, NM

Parameter	Flag Flag		RL Result RL Result		Units		RL RL	
Parameter					Units	Dilution		
GRO			5.20		mg/Kg	1		1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)			2.35 2.24	mg/Kg mg/Kg	1 1	2.00 2.00	118 112	65.3 - 145 61.7 - 131.1

Prep Method: S 5035 S 8021B 2010-02-27 Analyzed By: AGSample Preparation: 2010-02-26 Prepared By: AG

Units Dilution RLmg/Kg 1 0.0100 1 0.0100 mg/Kg 1 mg/Kg 0.0100 mg/Kg 1 0.0100

				Spike	Percent	Recovery
Surrogate Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	1.45	mg/Kg	1	2.00	72	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)	1.62	mg/Kg	1	2.00	81	43.1 - 158.4

Mod. 8015B Prep Method: N/A 2010-02-25 Analyzed By: kg 2010-02-25 Prepared By: kg

Units Dilution RL mg/Kg 1 50.0

Work Order: 10022524 Sunoco Denton Station Page Number: 6 of 11 Lovington. NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	$egin{array}{c} ext{Recovery} \ ext{Limits} \end{array}$
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 223681 - SSS-2B

Laboratory: Midland

Analysis: TPH GRO QC Batch: 67877 Prep Batch: 58062

Analytical Method: S 8015B Date Analyzed: 2010-02-27 Sample Preparation: 2010-02-26

Prep Method: S 5035 Analyzed By: AGPrepared By: AG

RL

Result Units Dilution Flag RLParameter <1.00 mg/Kg GRO 1.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.82	mg/Kg	1	2.00	91	65.3 - 145
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	61.7 - 131.1

Method Blank (1) QC Batch: 67849

QC Batch: 67849 Prep Batch: 58044

Date Analyzed: 2010-02-25 QC Preparation: 2010-02-25

Analyzed By: Prepared By:

MDL Flag Result Units

Parameter RL $\overline{\text{DRO}}$ < 5.86 mg/Kg 50

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Method Blank (1) QC Batch: 67877

QC Batch: 67877 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26 Analyzed By: AGPrepared By: AG

MDL Result Parameter Flag Units RLGRO < 0.396 mg/Kg

Work Order: 10022524 Sunoco Denton Station Page Number: 7 of 11 Lovington, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.18	mg/Kg	1	2.00	109	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.59	mg/Kg	1	2.00	80	62 - 120.5

Method Blank (1)

QC Batch: 67879

QC Batch: 67879 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26 Analyzed By: AG Prepared By: AG

MDL Flag Result Units RLParameter < 0.00410 mg/Kg 0.01 Benzene < 0.00310 mg/Kg 0.01 Toluene Ethylbenzene < 0.00240 mg/Kg 0.01 Xylene < 0.00650 mg/Kg 0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	16	1.71	mg/Kg	1	2.00	86	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	1	2.00	72	43.9 - 141.9

Laboratory Control Spike (LCS-1)

QC Batch: 67849 Prep Batch: 58044 Date Analyzed: 2010-02-25 QC Preparation: 2010-02-25

Analyzed By: kg
Prepared By: kg

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	304	mg/Kg	1	250	< 5.86	122	57.4 - 133.4

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	305	mg/Kg	1	250	< 5.86	122	57.4 - 133.4	0	20

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	86.8	88.6	mg/Kg	1	100	87	89	70 - 130

Work Order: 10022524 Sunoco Denton Station Page Number: 8 of 11 Lovington, NM

Laboratory Control Spike (LCS-1)

QC Batch: 67877 Prep Batch: 58062

0

Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26 Analyzed By: AG Prepared By: AG

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	14.5	mg/Kg	1	20.0	< 0.396	72	52.5 - 114.3

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	15.0	mg/Kg	. 1	20.0	< 0.396	75	52.5 - 114.3	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
Trifluorotoluene (TFT)	1.93	2.22	mg/Kg	1	2.00	96	111	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	1.86	2.12	mg/Kg	1	2.00	93	106	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: 67879 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

LCS Spike Matrix Rec. Result Units Dil. Result Limit Param Amount Rec. Benzene 1.78 mg/Kg 2.00 < 0.00410 89 75.4 - 115.7 Toluene 1.78 mg/Kg 1 2.00 < 0.00310 89 78.4 - 113.6 Ethylbenzene 1.76 mg/Kg 1 2.00 < 0.00240 88 76 - 114.2 Xylene 5.30 mg/Kg 1 6.00 < 0.00650 88 76.9 - 113.6

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.80	mg/Kg	1	2.00	< 0.00410	90	75.4 - 115.7	1	20
Toluene	1.81	mg/Kg	1	2.00	< 0.00310	90	78.4 - 113.6	2	20
Ethylbenzene	1.81	mg/Kg	. 1	2.00	< 0.00240	90	76 - 114.2	3	20
Xylene	5.44	mg/Kg	1	6.00	< 0.00650	91	76.9 - 113.6	3	20

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.63	1.68	mg/Kg	1	2.00	82	84	65 - 142.9
4-Bromofluorobenzene (4-BFB)	1.96	2.02	mg/Kg	1	2.00	98	101	43.8 - 144.9

Work Order: 10022524 Sunoco Denton Station Page Number: 9 of 11 Lovington, NM

Matrix Spike (MS-1)

Prep Batch: 58044

Spiked Sample: 223538

QC Batch:

67849

Date Analyzed:

2010-02-25

QC Preparation: 2010-02-25

Analyzed By: kg

Prepared By: kg

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	" I	2380	mg/Kg	1	250	1040	536	35.2 - 167.1

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

		MSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	2	1840	mg/Kg	1	250	1040	320	35.2 - 167.1	26	20

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

		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	3 4	186	144	mg/Kg	1	100	186	144	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 223681

QC Batch:

67877

Date Analyzed:

2010-02-27

Analyzed By: AG

Prep Batch: 58062

QC Preparation: 2010-02-26

Prepared By: AG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	22.4	mg/Kg	1	20.0	< 0.396	112	10 - 198.3

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	23.9	mg/Kg	1	20.0	< 0.396	120	10 - 198.3	6	20

Surrogate	$rac{MS}{Result}$	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.73	2.34	mg/Kg	1	2	86	117	65.5 - 143
4-Bromofluorobenzene (4-BFB)	1.70	2.29	mg/Kg	1	2	85	114	58.6 - 140

¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³High surrogate recovery due to peak interference. ⁴High surrogate recovery due to peak interference.

Work Order: 10022524 Sunoco Denton Station Page Number: 10 of 11 Lovington. NM

Matrix Spike (MS-1)

Spiked Sample: 223681

QC Batch: 67879 Prep Batch: 58062

0

Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene	1.86	mg/Kg	1	2.00	< 0.00410	93	57.7 - 140.7
Toluene	1.90	mg/Kg	1	2.00	< 0.00310	95	53.4 - 146.6
Ethylbenzene	1.95	mg/Kg	1	2.00	< 0.00240	98	62.1 - 141.6
Xylene	5.84	mg/Kg	1	6.00	<0.00650	97	61.2 - 142.7

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.82	mg/Kg	1	2.00	< 0.00410	91	57.7 - 140.7	2	20
Toluene	1.85	mg/Kg	1	2.00	< 0.00310	92	53.4 - 146.6	3	20
Ethylbenzene	1.92	mg/Kg	1	2.00	< 0.00240	96	62.1 - 141.6	2	20
Xylene	5.75	mg/Kg	1	6.00	< 0.00650	96	61.2 - 142.7	2	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.36	1.87	mg/Kg	1	2	68	94	61.7 - 139.6
4-Bromofluorobenzene (4-BFB)	1.57	2.14	mg/Kg	1	2	78	107	49.6 - 146.7

Standard (CCV-2)

QC Batch: 67849

Date Analyzed: 2010-02-25

Analyzed By: kg

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag .	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	275	110	80 - 120	2010-02-25

Standard (CCV-3)

QC Batch: 67849

Date Analyzed: 2010-02-25

Analyzed By: kg

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	272	109	80 - 120	2010-02-25

Work Order: 10022524 Sunoco Denton Station Page Number: 11 of 11 Lovington, NM

Standard (CCV-1)

QC Batch: 67877

0

0

(2)

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.902	90	80 - 120	2010-02-27

Standard (CCV-2)

QC Batch: 67877

Date Analyzed: 2010-02-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
raram	riag	Omes	Conc.	conc.	necovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.970	97	80 - 120	2010-02-27

Standard (CCV-1)

QC Batch: 67879

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs True	$\begin{array}{c} \text{CCVs} \\ \text{Found} \end{array}$	CCVs Percent	Percent Recovery	Date
Param	Flag	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0876	88	80 - 120	2010-02-27
Toluene	•	mg/Kg	0.100	0.0877	88	80 - 120	2010-02-27
Ethylbenzene		mg/Kg	0.100	0.0869	87	80 - 120	2010-02-27
Xylene		mg/Kg	0.300	0.263	88	80 - 120	2010-02-27

Standard (CCV-2)

QC Batch: 67879

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0868	87	80 - 120	2010-02-27
Toluene		mg/Kg	0.100	0.0860	86	80 - 120	2010-02-27
Ethylbenzene		mg/Kg	0.100	0.0842	84	80 - 120	2010-02-27
Xylene		mg/Kg	0.300	0.253	84	80 - 120	2010-02-27

LAB Order ID#	10022524
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LAB USE		FIELD	CODE	Ē		# CONTAINERS	Volume / Amount	WATER	SOIL ·	SLUDGE			HNO3	H ₂ SO ₄	<u> </u>	NONE		DATE		TIME	MTBE 8021	BTEX 80217 602 /	TPH 418.1 / TX1005 / TX1005	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As	TCLP Semi Volatiles	TCLP Pesticid	GC/MS Vol. 8260	GC/MS Semi. Vol. 8270 /	PCB's 8082 /	Pesticides 8081 / 608 BOD, TSS, pH	Moisture Content	CI, FI, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K			Turn Around Time if different from standard	Hold
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402 • 689 • 6301 817 • 201 • 5260 FAX:432 • 689 • 6313.

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Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

T104704219-08-TX Lubbock:

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ron Rounsaville Nova Safety & Environmental 2057 Commerce St.

Report Date: March 1, 2010

Midland, TX, 79703

Work Order: 10022524

Project Location: Lovington, NM

Project Name: Project Number:

Sunoco Denton Station Sunoco Denton Station

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
223680	NSS-1B	soil	2010-02-24	13:26	2010-02-25
223681	SSS-2B	soil	2010-02-24	13:00	2010-02-25

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.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis. Inc.

Michael april

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Sunoco Denton Station were received by TraceAnalysis, Inc. on 2010-02-25 and assigned to work order 10022524. Samples for work order 10022524 were received intact at a temperature of 2.1 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	58062	2010-02-26 at 11:00	67879	2010-02-27 at 14:44
TPH DRO - NEW	Mod. 8015B	58044	2010-02-25 at 10:56	67849	2010-02-25 at 10:56
TPH GRO	S 8015B	58062	2010-02-26 at 11:00	67877	2010-02-27 at 15:12

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 10022524 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.

4

Work Order: 10022524 Sunoco Denton Station Page Number: 4 of 11 Lovington, NM

Analytical Report

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: BTEX QC Batch: 67879 Prep Batch: 58062

Analytical Method: S 8021B Date Analyzed: Sample Preparation:

2010-02-27 2010-02-26 Prep Method: S 5035 Analyzed By: AGPrepared By: AG

RLParameter Flag Result Units Dilution RLBenzene < 0.0100 mg/Kg 1 0.0100 Toluene < 0.0100 mg/Kg 1 0.0100 Ethylbenzene < 0.0100 mg/Kg 1 0.0100 mg/Kg Xvlene < 0.0100 1 0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		2.09	mg/Kg	1	2.00	104	43.1 - 158.4

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 67849 Prep Batch: 58044

Analytical Method: Mod. 8015B Date Analyzed: 2010-02-25

2010-02-25

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

RLParameter Flag Result Units Dilution RLDRO < 50.0 mg/Kg 50.0

Sample Preparation:

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

Sample: 223680 - NSS-1B

Laboratory: Midland

Analysis: TPH GRO QC Batch: 67877 Prep Batch: 58062

Analytical Method: S 8015BDate Analyzed: 2010-02-27 Sample Preparation: 2010-02-26

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

continued ...

(1)

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1

Work Order: 10022524 Sunoco Denton Station Page Number: 5 of 11 Lovington, NM

sample 223680 continued ...

			RL					
Parameter	Flag		Result		Units		Dilution	RL
			RL					
Parameter	Flag		Result		\mathbf{U} nits		Dilution	RL
GRO			5.20		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT	Γ)		2.35	mg/Kg	1	2.00	118	65.3 - 145
4-Bromofluorobenzene	e (4-BFB)		2.24	mg/Kg	1	2.00	112	61.7 - 131.1

Sample: 223681 - SSS-2B

Laboratory: Midland

Analysis: BTEX QC Batch: 67879 Prep Batch: 58062 Analytical Method: S 8021B Date Analyzed: 2010-02-27 Sample Preparation: 2010-02-26

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

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.45	mg/Kg	1	2.00	72	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		1.62	mg/Kg	1	2.00	81	43.1 - 158.4

Sample: 223681 - SSS-2B

Laboratory: Midland

Analysis: TPH DRO - NEW QC Batch: 67849
Prep Batch: 58044

Analytical Method: Mod. 8015B Date Analyzed: 2010-02-25 Sample Preparation: 2010-02-25

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

		${f R}{f L}$			
Parameter	Flag	Result	Units	Dilution	RL
DRO		< 50.0	${ m mg/Kg}$	1	50.0

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Work Order: 10022524 Sunoco Denton Station Page Number: 6 of 11 Lovington, NM

Q .		TD 1:	T T • ,	D:1	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	<u>Limits</u>
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 223681 - SSS-2B

Laboratory: Midland

Analysis: TPH GRO QC Batch: 67877 Prep Batch: 58062

Analytical Method: S 8015B Date Analyzed: 2010-02-27 Sample Preparation: 2010-02-26

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

Flag

Result Dilution RLUnits Parameter 1.00 GRO <1.00 mg/Kg

RL

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.82	mg/Kg	1	2.00	91	65.3 - 145
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1_	2.00	88	61.7 - 131.1

Method Blank (1) QC Batch: 67849

QC Batch: 67849 Prep Batch: 58044

 $\overline{\text{DRO}}$

Date Analyzed: 2010-02-25 QC Preparation: 2010-02-25 Analyzed By: kg Prepared By: kg

MDL Parameter Flag Result

Units RL< 5.86 mg/Kg 50

			TT *:	TOTAL CO.	Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

QC Batch: 67877 Method Blank (1)

QC Batch: 67877 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

MDL Parameter Flag Result Units RL< 0.396 mg/Kg GRO 1

Work Order: 10022524 Sunoco Denton Station Page Number: 7 of 11 Lovington. NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.18	mg/Kg	1	2.00	109	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.59	${ m mg/Kg}$	1	2.00	80	62 - 120.5

Method Blank (1)

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QC Batch: 67879

QC Batch: 67879 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

MDL Parameter Flag Result Units RLBenzene < 0.00410 mg/Kg 0.01 Toluene < 0.00310 mg/Kg 0.01 Ethylbenzene < 0.00240 mg/Kg 0.01 Xylene < 0.00650 mg/Kg 0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.71	mg/Kg	1	2.00	86	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	1	2.00	72	43.9 - 141.9

Laboratory Control Spike (LCS-1)

QC Batch: 67849 Prep Batch: 58044 Date Analyzed: QC Preparation:

2010-02-25 2010-02-25 Analyzed By: kg Prepared By: kg

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit DRO 304 mg/Kg 250 < 5.86 122 57.4 - 133.4 1

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

	LCSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	305	${ m mg/Kg}$	1	250	< 5.86	122	57.4 - 133.4	0	20

	LCS	LCSD			\mathbf{Spike}	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	86.8	88.6	mg/Kg	1	100	87	89	70 - 130

Work Order: 10022524 Sunoco Denton Station Page Number: 8 of 11 Lovington, NM

Laboratory Control Spike (LCS-1)

QC Batch: 67877 Prep Batch: 58062

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Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

	LCS			\mathbf{Spike}	Matrix		Rec.
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	Limit
GRO	14.5	mg/Kg	1	20.0	< 0.396	72	52.5 - 114.3

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	15.0	mg/Kg	1	20.0	< 0.396	75	52.5 - 114.3	3	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.93	2.22	mg/Kg	1	2.00	96	111	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	1.86	2.12	mg/Kg	1	2.00	93	106	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: 67879 Prep Batch: 58062 Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26

Analyzed By: AG Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.78	mg/Kg	1	2.00	< 0.00410	89	75.4 - 115.7
Toluene	1.78	mg/Kg	1	2.00	< 0.00310	89	78.4 - 113.6
Ethylbenzene	1.76	mg/Kg	1	2.00	< 0.00240	88	76 - 114.2
Xylene	5.30	mg/Kg	1	6.00	< 0.00650	88	76.9 - 113.6

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.80	mg/Kg	1	2.00	< 0.00410	90	75.4 - 115.7	1	20
Toluene	1.81	mg/Kg	1	2.00	< 0.00310	90	78.4 - 113.6	2	20
Ethylbenzene	1.81	mg/Kg	1	2.00	< 0.00240	90	76 - 114.2	3	20
Xylene	5.44	mg/Kg	1	6.00	< 0.00650	91	76.9 - 113.6	3	20

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.63	1.68	mg/Kg	1	2.00	82	84	65 - 142.9
4-Bromofluorobenzene (4-BFB)	1.96	2.02	mg/Kg	1	2.00	98	101	43.8 - 144.9

Report	Date:	March	1,	2010
Sunoco	Dento	n Stati	οn	

Work Order: 10022524 Sunoco Denton Station Page Number: 9 of 11 Lovington, NM

Matrix Spike (MS-1)

Spiked Sample: 223538

QC Batch: 67849 Prep Batch: 58044

Date Analyzed:

2010-02-25

Analyzed By:

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QC Preparation: 2010-02-25

Prepared By:

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
DRO	1	2380	mg/Kg	1	250	1040	536	35.2 - 167.1

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

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	2	1840	mg/Kg	1	250	1040	320	35.2 - 167.1	26	20

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

		MS	MSD			\mathbf{Spike}	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	3 4	186	144	mg/Kg	1	100	186	144	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 223681

QC Batch:

67877

Date Analyzed:

2010-02-27

Analyzed By: AG Prepared By: AG

Prep Batch: 58062

QC Preparation: 2010-02-26

	MS	•		Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	22.4	mg/Kg	1	20.0	< 0.396	112	10 - 198.3

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

	MSD			\mathbf{Spike}	Matrix		$\operatorname{Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	23.9	mg/Kg	1	20.0	< 0.396	120	10 - 198.3	6	20

	MS	MSD			\mathbf{Spike}	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.73	2.34	mg/Kg	1	2	86	117	65.5 - 143
4-Bromofluorobenzene (4-BFB)	1.70	2.29	mg/Kg	1	2	85	114	58 .6 - 140

¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³High surrogate recovery due to peak interference. ⁴High surrogate recovery due to peak interference.

Work Order: 10022524 Sunoco Denton Station Page Number: 10 of 11 Lovington, NM

Matrix Spike (MS-1)

Spiked Sample: 223681

QC Batch: 67879 Prep Batch: 58062

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Date Analyzed: 2010-02-27 QC Preparation: 2010-02-26 Analyzed By: AG Prepared By: AG

	MS			\mathbf{Spike}	Matrix		Rec.
Param	Result	${ m Units}$	Dil.	Amount	Result	Rec.	Limit
Benzene	1.86	mg/Kg	1	2.00	< 0.00410	93	57.7 - 140.7
Toluene	1.9 0	${ m mg/Kg}$	1	2.00	< 0.00310	95	53.4 - 146.6
Ethylbenzene	1.95	mg/Kg	1	2.00	< 0.00240	98	62.1 - 141.6
Xylene	5.84	${ m mg/Kg}$	1	6.00	< 0.00650	97	61.2 - 142.7

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

	MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.82	mg/Kg	1	2.00	< 0.00410	91	57.7 - 140.7	2	20
Toluene	1.85	mg/Kg	1	2.00	< 0.00310	92	53.4 - 146.6	3	20
Ethylbenzene	1.92	mg/Kg	1	2.00	< 0.00240	96	62.1 - 141.6	2	20
Xylene	5.75	mg/Kg	1	6.00	< 0.00650	96	61.2 - 142.7	2	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.36	1.87	mg/Kg	1	2	68	94	61.7 - 139.6
4-Bromofluorobenzene (4-BFB)	1.57	2.14	mg/Kg	1	2	78	107	49.6 - 146.7

Standard (CCV-2)

QC Batch: 67849

Date Analyzed: 2010-02-25

Analyzed By: kg

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	275	110	80 - 120	2010-02-25

Standard (CCV-3)

QC Batch: 67849

Date Analyzed: 2010-02-25

Analyzed By: kg

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	272	109	80 - 120	2010-02-25

Report Date: March 1, 2010
Sunoco Denton Station

Standard (CCV-1)

QC Batch: 67877

Param Flag
GRO

Standard (CCV-2)

QC Batch: 67877

Param Flag
GRO

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Work Order: 10022524 Sunoco Denton Station Page Number: 11 of 11 Lovington, NM

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.902	90	80 - 120	2010-02-27

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.970	97	80 - 120	2010-02-27

Standard (CCV-1)

QC Batch: 67879

Date Analyzed: 2010-02-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0876	88	80 - 120	2010-02-27
Toluene		mg/Kg	0.100	0.0877	88	80 - 120	2010-02-27
Ethylbenzene		mg/Kg	0.100	0.0869	87	80 - 120	2010-02-27
Xylene		mg/Kg	0.300	0.263	88	80 - 120	2010-02-27

Standard (CCV-2)

QC Batch: 67879

Date Analyzed: 2010-02-27

Analyzed By: AG

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0868	87	80 - 120	2010-02-27
Toluene		mg/Kg	0.100	0.0860	86	80 - 120	2010-02-27
Ethylbenzene		mg/Kg	0.100	0.0842	84	80 - 120	2010-02-27
Xylene		mg/Kg	0.300	0.253	84	80 - 120	2010-02-27

LAB Order ID#	10022524

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ORIGINAL COPY

APPENDIX B Release Notification and Corrective Action (Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88210

State of New Mexico
District II

Oil Conservation Division
Oil Conservation Division

JUL 2 7 2009

Revised Content of New Mexico
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

District IV
1220 S. St. Francis Dr., Santa Fe DBBSOCD

HOBBSOCD Release Notification and Corrective Action

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