SITE CLOSURE REPORT

SUNOCO DENTON STATION

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

RECEIVED
AUG 27 2010
HOBBSOCD

Prepared for:

Sunoco Logistics L.P.
401 Cypress, Ste 610
Abilene, Texas 79601

NOVA
safety and environmental

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

Copy 4: 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

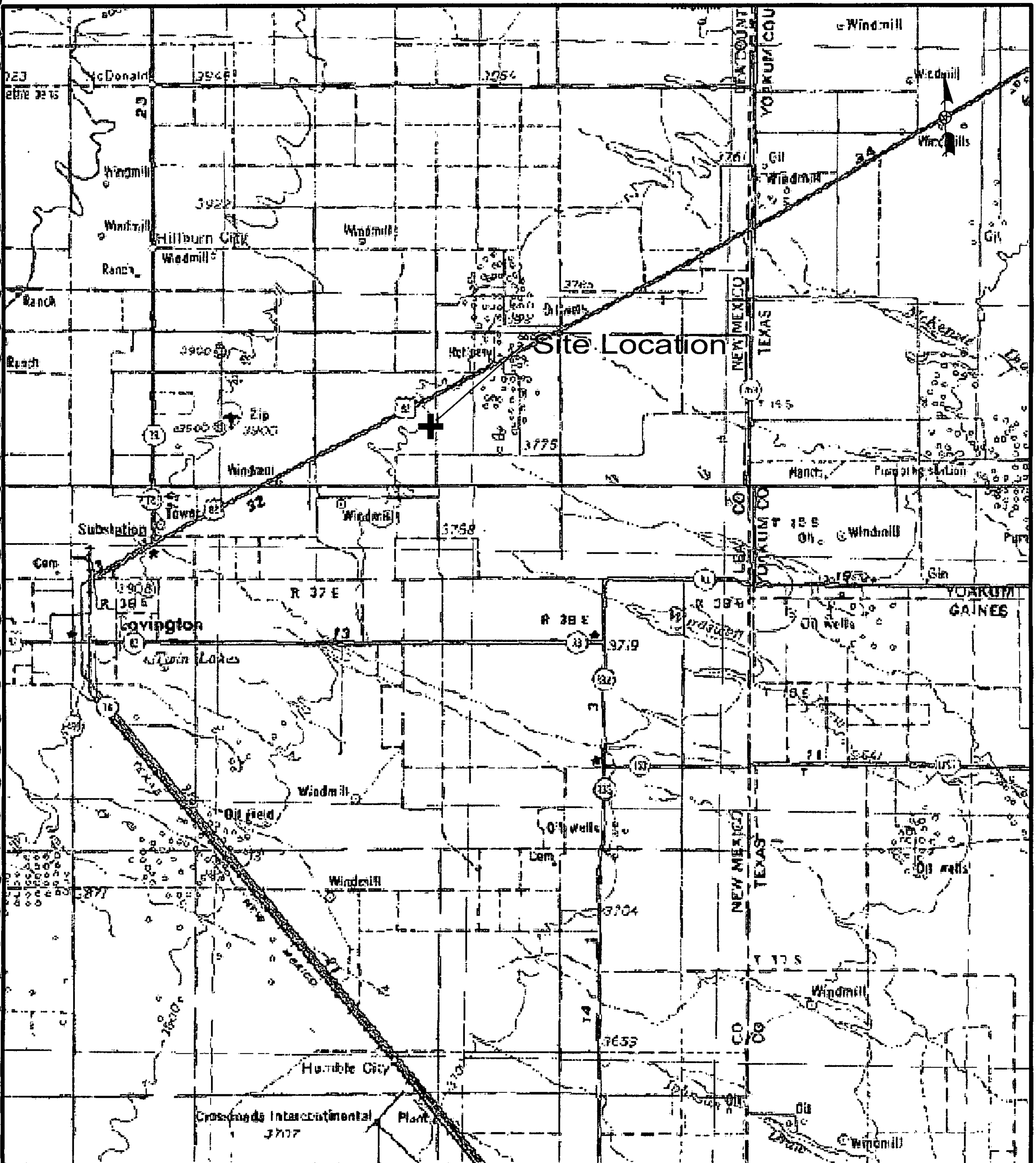
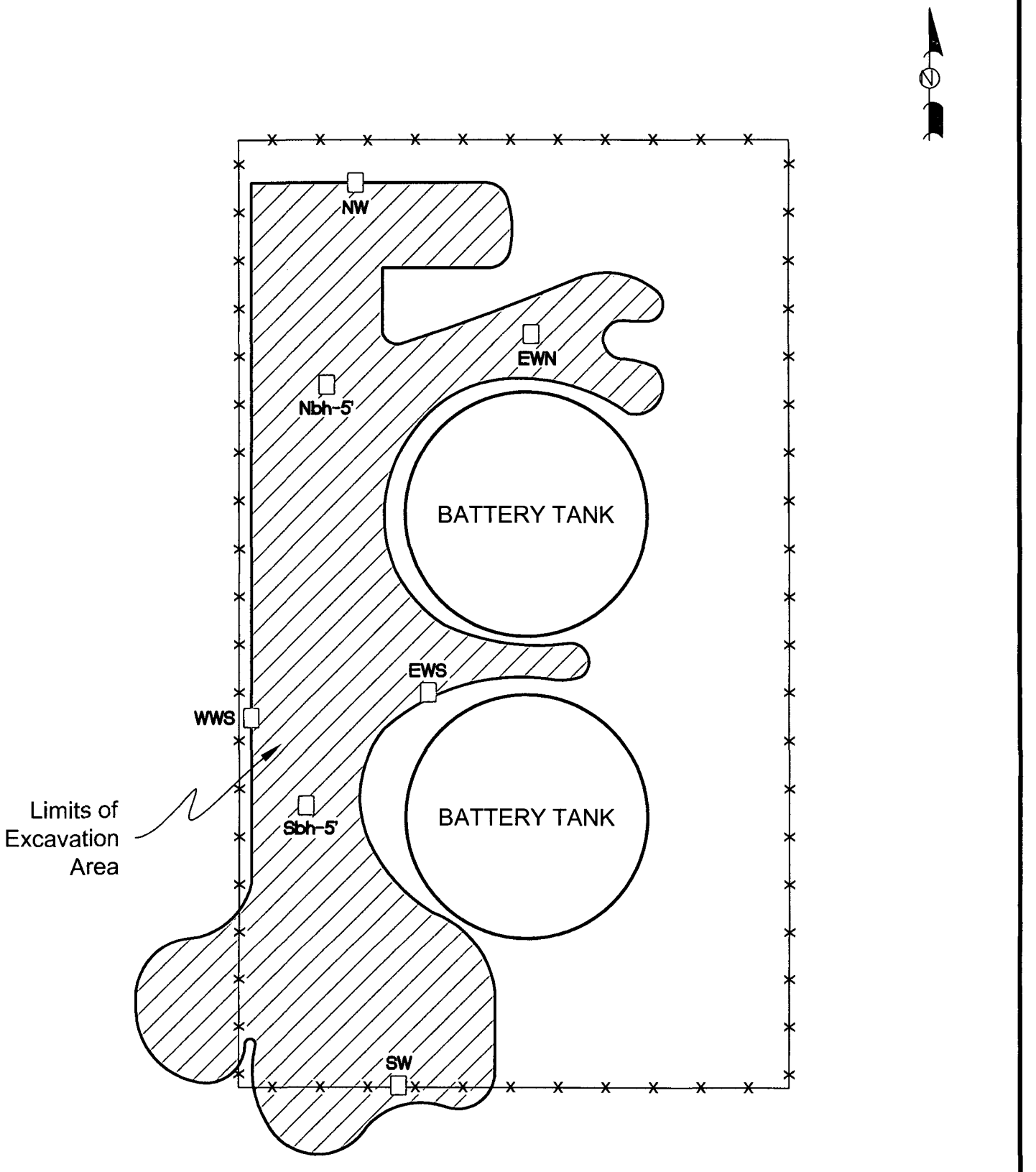


Figure 1
Site Location Map
Denton Station
Sunoco Logistics, L.P.
Lea County, New Mexico

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

Scale: 1" = 10560'	Drawn By: SAT	Checked By: RKR
April 6, 2010	N 32.468°	W 102.273°



Legend:

- △ Confirmation Soil Sample Locations
- Fenceline
- Excavation Area

Figure 2
Site Details and
Sample Location Map
Denton Station
Sunoco Logistics, LP.
Lea County, New Mexico

NOVA safety and environmental
2057 Commerce Drive
Midland, Texas 79703
432.520.7720
www.novasafetyandenvironmental.com

Scale: NTS	Drawn By: SAT	Checked By: RKR
July 21, 2009	N 32.468°	W 102.273°

TABLES

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
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**
06/30/09	NSS--1A	**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

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

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: 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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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	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

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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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	51690	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.

Analytical Report

Sample: 199195 - NW

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

Parameter	Flag	RL 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)		1.99	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	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

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

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

Sample: 199195 - NW

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

continued ...

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 (TFT)		2.14	mg/Kg	1	2.00	107	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.41	mg/Kg	1	2.00	70	52 - 117

Sample: 199197 - Nbh-5'

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

Parameter	Flag	RL 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)		1.98	mg/Kg	1	2.00	99	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.83	mg/Kg	1	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

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

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

Sample: 199197 - Nbh-5'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

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

Parameter	Flag	RL 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)		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

Sample: 199199 - EWN

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

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

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

Sample: 199199 - EWN

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
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	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	60595	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

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

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	mg/Kg	1	2.00	170	45.2 - 144.3

Sample: 199200 - EWS

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**404**	mg/Kg	1	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:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

Parameter	Flag	RL 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	1	2.00	176	52 - 117

Sample: 199201 - Sbh-5'

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

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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	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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**88.1**	mg/Kg	1	50.0

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

Sample: 199201 - Sbh-5'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

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

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

Sample: 199202 - WWS

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

Parameter	Flag	RL 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)		1.99	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	61062	Date Analyzed:	2009-07-01	Analyzed By:	AG
Prep Batch:	52057	Sample Preparation:	2009-07-01	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		68.3	mg/Kg	1	100	68	13.2 - 219.3

Sample: 199202 - WWS

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	61140	Date Analyzed:	2009-07-02	Analyzed By:	ME
Prep Batch:	52140	Sample Preparation:	2009-07-02	Prepared By:	ME

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

Parameter	Flag	RL 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)		1.97	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	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

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

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

Sample: 199203 - SW

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	60596	Date Analyzed:	2009-06-18	Analyzed By:	ME
Prep Batch:	51692	Sample Preparation:	2009-06-18	Prepared By:	ME

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**9.86**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	68.5 - 119.4
4-Bromofluorobenzene (4-BFB)		1.44	mg/Kg	1	2.00	72	52 - 117

Method Blank (1) QC Batch: 60591

QC Batch:	60591	Date Analyzed:	2009-06-18	Analyzed By:	AG
Prep Batch:	51690	QC Preparation:	2009-06-18	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		121	mg/Kg	1	100	121	13 - 178.5

Method Blank (1) QC Batch: 60595

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

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.97	mg/Kg	1	2.00	98	65.6 - 130.6
4-Bromofluorobenzene (4-BFB)		1.98	mg/Kg	1	2.00	99	51.9 - 128.1

Method Blank (1) QC Batch: 60596

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	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 | Date Analyzed: 2009-07-01 | Analyzed By: AG
Prep Batch: 52057 | QC Preparation: 2009-07-01 | Prepared By: AG

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

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

Method Blank (1) QC Batch: 61139

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

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00100	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

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) QC Batch: 61140

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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: 60595 | Date Analyzed: 2009-06-18 | Analyzed By: ME
Prep Batch: 51692 | QC Preparation: 2009-06-18 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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

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
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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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: 60596 | Date Analyzed: 2009-06-18 | Analyzed By: ME
Prep Batch: 51692 | QC Preparation: 2009-06-18 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 | Date Analyzed: 2009-07-01 | Analyzed By: AG
Prep Batch: 52057 | QC Preparation: 2009-07-01 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	213	mg/Kg	1	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 | Date Analyzed: 2009-07-02 | Analyzed By: ME
Prep Batch: 52140 | QC Preparation: 2009-07-02 | 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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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 | Date Analyzed: 2009-07-02 | Analyzed By: ME
Prep Batch: 52140 | QC Preparation: 2009-07-02 | Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.0	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 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)	1.96	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

Matrix Spike (MS-1) Spiked Sample: 199203

QC Batch: 60591 | Date Analyzed: 2009-06-18 | Analyzed By: AG
Prep Batch: 51690 | QC Preparation: 2009-06-18 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
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	104	64.2 - 153.8
Ethylbenzene	2.03	mg/Kg	1	2.00	<0.00110	102	61.6 - 159.4
Xylene	6.13	mg/Kg	1	6.00	<0.00360	102	64.4 - 155.3

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

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matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2009-06-18 | Analyzed By: ME
Prep Batch: 51692 | QC Preparation: 2009-06-18 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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	mg/Kg	1	2	72	75	31.3 - 161.7

Matrix Spike (MS-1) Spiked Sample: 199202

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

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2009-07-02 | Analyzed By: ME
Prep Batch: 52140 | QC Preparation: 2009-07-02 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.96	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

[4]Surrogate out due to peak interference.
[5]Surrogate out due to peak interference.

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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-1)

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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

LAB Order ID # 90691721 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Company Name: Nova Safety & Enviro
Phone #: 432-520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: Sunoco Denton Station
Project Location (including state): Lovington NM
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / ORO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
90195	NW	1			X							X		6/10/09	2:00		X		X															
196	WWN	1			X							X					X		X															
197	Nbh-5'	1			X							X					X		X															
198	Nsb-2'	1			X							X					X		X															
199	EWN	1			X							X					X		X															
200	EWS	1			X							X					X		X															
201	Sbh-5'	1			X							X					X		X															
202	WWS	1			X							X					X		X															
203	SW	1			X							X					X		X															
204	SWb-5'	1			X							X					X		X															
					X																													

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
	Nova	6/10/09	4:53	Melanie Potter	Trace	6/11/09	10:53	23.3°C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact: Y / N
Headspace: Y / N / NA
Log-In Review

REMARKS:

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

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-all

ORIGINAL COPY

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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: July 6, 2009

Work Order: 9070124

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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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.

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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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.

Analytical Report

Sample: 200839 - NSS-1A

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

Parameter	Flag	RL 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)		1.96	mg/Kg	1	2.00	98	49 - 129.7
4-Bromofluorobenzene (4-BFB)		1.40	mg/Kg	1	2.00	70	45.2 - 144.3

Sample: 200839 - NSS-1A

Laboratory:	Midland				
Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	61062	Date Analyzed:	2009-07-01	Analyzed By:	AG
Prep Batch:	52057	Sample Preparation:	2009-07-01	Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**884**	mg/Kg	1	50.0

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

Sample: 200839 - NSS-1A

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	61140	Date Analyzed:	2009-07-02	Analyzed By:	ME
Prep Batch:	52140	Sample Preparation:	2009-07-02	Prepared By:	ME

continued ...

sample 200839 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**22.3**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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

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

Parameter	Flag	RL 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		**0.283**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	61062	Date Analyzed:	2009-07-01	Analyzed By:	AG
Prep Batch:	52057	Sample Preparation:	2009-07-01	Prepared By:	AG

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

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	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	61140	Date Analyzed:	2009-07-02	Analyzed By:	ME
Prep Batch:	52140	Sample Preparation:	2009-07-02	Prepared By:	ME

Parameter	Flag	RL 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	1	2.00	69	52 - 117

Method Blank (1) QC Batch: 61062

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

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

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

Method Blank (1) QC Batch: 61139

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

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

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Xylene		<0.00360	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) QC Batch: 61140

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

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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 Date Analyzed: 2009-07-01 Analyzed By: AG
Prep Batch: 52057 QC Preparation: 2009-07-01 Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	213	mg/Kg	1	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD 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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	14.0	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 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)	1.96	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

Matrix Spike (MS-1) Spiked Sample: 199202

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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 | Date Analyzed: 2009-07-02 | Analyzed By: ME
Prep Batch: 52140 | QC Preparation: 2009-07-02 | Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.96	1.91	mg/Kg	1	2	98	96	76 - 127.9

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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

[1]Surrogate out due to peak interference.
[2]Surrogate out due to peak interference.

Standard (CCV-1)

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

LAB Order ID # 907012 4 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: NOVA — Phone #:

Address: (Street, City, Zip) — Fax #:

Contact Person: Ron Rounsaville — E-mail:

Invoice to: (If different from above) Sunoco

Project #: — Project Name: Sunoco Denton STATION

Project Location (including state): LEA CO. NM — Sampler Signature: Ron Rounsaville

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
20839	NSS-1A	1	402		X							X		6/30/09	1349
840	SSS-2A	1	"		X							X		"	1357

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
	X		X															
	X		X															

Relinquished by: Date: Time: 7/1/09 1548

Received by: Melanie Battin Trace 7/1/09 15:48 -5.6°C

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: Time:

LAB USE ONLY

Intact (Y) N

Headspace Y / N N/A

Temp. -5.6 °C

Log-in-Review

REMARKS: All tests Midland

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

Carrier # Carry-on

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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

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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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.

Analytical Report

Sample: 223680 - NSS-1B

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	67879	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

Parameter	Flag	RL 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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	67849	Date Analyzed:	2010-02-25	Analyzed By:	kg
Prep Batch:	58044	Sample Preparation:	2010-02-25	Prepared By:	kg

Parameter	Flag	RL 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	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	67877	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

continued ...

sample 223680 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.20**	mg/Kg	1	1.00

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

Sample: 223681 - SSS-2B

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	67879	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

Parameter	Flag	RL 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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	67849	Date Analyzed:	2010-02-25	Analyzed By:	kg
Prep Batch:	58044	Sample Preparation:	2010-02-25	Prepared By:	kg

Parameter	Flag	RL 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		104	mg/Kg	1	100	104	70 - 130

Sample: 223681 - SSS-2B

Laboratory: Midland
Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035
QC Batch: 67877 | Date Analyzed: 2010-02-27 | Analyzed By: AG
Prep Batch: 58062 | Sample Preparation: 2010-02-26 | Prepared By: AG

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 (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 | Date Analyzed: 2010-02-25 | Analyzed By: kg
Prep Batch: 58044 | QC Preparation: 2010-02-25 | Prepared By: kg

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

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

Method Blank (1) QC Batch: 67877

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

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

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

Parameter	Flag	MDL Result	Units	RL
Benzene		<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 | Date Analyzed: 2010-02-25 | Analyzed By: kg
Prep Batch: 58044 | QC Preparation: 2010-02-25 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

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

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

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

Laboratory Control Spike (LCS-1)

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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 | Date Analyzed: 2010-02-27 | Analyzed By: AG
Prep Batch: 58062 | QC Preparation: 2010-02-26 | 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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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)	1.63	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

Matrix Spike (MS-1) Spiked Sample: 223538

QC Batch: 67849
Prep Batch: 58044

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

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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
Prep Batch: 58062

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

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.73	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

[1] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3] High surrogate recovery due to peak interference.
[4] High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 223681

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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

Standard (CCV-1)

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
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
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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Page 1 of 1

TraceAnalysis, Inc.

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

Company Name: NOVA
Phone #:
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Rounsaville
E-mail:
Invoice to: (If different from above) Sunoco
Project #:
Project Name: Sunoco Denton STATION
Project Location (including state): LOVINGTON, NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
226880	NSS - 1 B	1	4oz		X							X		2/24/10	1326
081	SSS - 2 B	1	"		X							X		"	1300

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC						Turn Around Time if different from standard	Hold
	X	X	X																						
	X	X																							

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
		2/25/10	1130		Trace	2/26/10	11:30	INST OBS 2.1 °C COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST OBS °C COR °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST OBS °C COR °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-In-Review

REMARKS:
All tests-Midland

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

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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Carrier # Carey-in

TRACEANALYSIS, INC.

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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

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.

Sample	Description	Matrix	Date Taken	Time Taken	Date 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

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.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis 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.

Analytical Report

Sample: 223680 - NSS-1B

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	67879	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

Parameter	Flag	RL 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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	67849	Date Analyzed:	2010-02-25	Analyzed By:	kg
Prep Batch:	58044	Sample Preparation:	2010-02-25	Prepared By:	kg

Parameter	Flag	RL 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	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	67877	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

continued ...

sample 223680 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.20**	mg/Kg	1	1.00

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

Sample: 223681 - SSS-2B

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	67879	Date Analyzed:	2010-02-27	Analyzed By:	AG
Prep Batch:	58062	Sample Preparation:	2010-02-26	Prepared By:	AG

Parameter	Flag	RL 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	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	67849	Date Analyzed:	2010-02-25	Analyzed By:	kg
Prep Batch:	58044	Sample Preparation:	2010-02-25	Prepared By:	kg

Parameter	Flag	RL 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		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: AG
Prepared By: AG

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 (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: kg
Prepared By: kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	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: AG
Prepared By: AG

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

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

Parameter	Flag	MDL Result	Units	RL
Benzene		<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 | Date Analyzed: 2010-02-25 | Analyzed By: kg
Prep Batch: 58044 | QC Preparation: 2010-02-25 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

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

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

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

Laboratory Control Spike (LCS-1)

QC Batch: 67877
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
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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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

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)	1.63	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

Matrix Spike (MS-1) Spiked Sample: 223538

QC Batch: 67849 | Date Analyzed: 2010-02-25 | Analyzed By: kg
Prep Batch: 58044 | QC Preparation: 2010-02-25 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

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

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.73	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

[1] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[2] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3] High surrogate recovery due to peak interference.
[4] High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 223681

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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD 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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

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

Standard (CCV-1)

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
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
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

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date 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

Page 1 of 1

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2501 Mayes Rd., Ste 100
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Tel (972) 242-7750

Company Name: NOVA **Phone #:**

Address: (Street, City, Zip) **Fax #:**

Contact Person: Ron Rounsaville **E-mail:**

Invoice to: (If different from above) Sunoco

Project #: **Project Name:** Sunoco Denton STATION

Project Location (including state): LOVINGTON, NM **Sampler Signature:**

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
223680	NSS - 1 B	1	4oz		X							X		2/24/10	1326		X		X																				
1081	SSS - 2 B	1	"		X							X		"	1300		X		X																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
		2/25/10	1130		Trace	2/26/10	11:30	INST ___ OBS 2.1 °C COR ___ °C
								INST ___ OBS ___ °C COR ___ °C
								INST ___ OBS ___ °C COR ___ °C

LAB USE ONLY
Intact Y N
Headspace Y / N (NA)
Log-in-Review

REMARKS: All tests-Midland

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

Carrier # Carry-in

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED
AUG 27 2010
HOBBSOCD

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED
JUL 27 2009
HOBBSOCD

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Repo

Name of Company Sunoco Logistics	Contact Jeff Green
Address 401 Cypress Avenue, Abilene, Texas 79601	Telephone No. 325 665 0021
Facility Name Sunoco Denton Station	Facility Type

Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	9	15 S	37 E					Lea

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release	Volume of Release 4 bbls	Volume Recovered 1 bbls
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery 06/14/09
Was Immediate Notice Given? ☐ Yes X No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

One of two tanks within the tank battery developed a leak and released approximately 4 barrels of crude oil.

Describe Area Affected and Cleanup Action Taken.*

Cleanup activities included excavation and stockpiling of impacted soil on plastic at the tank battery. Seven confirmation soil samples were collected from within the excavation floor and sidewalls for laboratory analysis. Impacted soils immediately below the two tanks were left in place to not compromise the tanks stability. The excavation area is approximately 100 feet in length X 30 feet wide. Stockpiled soils will be relocated to another facility for staging and blending.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Jeff Green	OIL CONSERVATION DIVISION
Printed Name: Jeff Green	Approved by District Supervisor:
Title: South Regional Manager	Approval Date: / Expiration Date:
E-mail Address:	Conditions of Approval: / Attached ☐
Date: 07/27/09 Phone: 325-671-8050	

* Attach Additional Sheets If Necessary