

TraceAnalysis, Inc.
 email: lab@traceanalysis.com

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

200 East Singel Rd., Suite E
 El Paso, Texas 79922
 Tel (915) 505-3443
 Fax (915) 505-4944
 1 (800) 588-3443

Company Name: Novus
 Address: (Street, City, Zip) 2007 Commerce
 Contact Person: Carl Stashley
 Invoice to: Platts
 (If different from above)
 Project #: TUW-LF-2000-7
 Project Location (including state): New Mexico

ANALYSIS REQUEST
 (Circle or Specify Method No.)

☒ MTBE 8021B / 602 / 8260B / 624	☐ TPH 418.1 / TX1005 / TX1005 Ext(C35)	☐ PAH 8270C / 825	☐ Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/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 / 825	☐ PCB's 8082 / 608	☐ Pesticides 8081A / 608	☐ BOD, TSS, pH	☐ Moisture Content	☐ Turn Around Time if different from standard
--	---	--	---	--	---	--	--	------------------------------	---	---	---	---	---------------------------------------	---	--

FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
			WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
MW-11	2	100L	X				X						11/11/11	1005
MW-20														1020
MW-21														1015
MW-23														1100
MW-24														1130
MW-25														1145
MW-26														1200
MW-27														1215
MW-28														1230
MW-29														1245
MW-30														1300

Relinquished by: Novus Date: 11/16/07 Time: 8:47
 Relinquished by: Novus Date: 11/16/07 Time: 8:47
 Relinquished by: Novus Date: 11/16/07 Time: 8:47
 Relinquished by: Novus Date: 11/16/07 Time: 8:47

REMARKS:
all - 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.

ORIGINAL COPY

Carrier # Ray

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name:

Address: (Street, City, Zip)

Contact Person:

Invoice to:

(If different from above)

Project #:

Project Location (including state):

Project Name:

Sampler Signature:

Phone #:

Fax #:

E-mail:

LAB Order ID #

7111615

Page 2 of 3

6701 Abardien Avenue, Suite 9

Lubbock, Texas 79424

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T (800) 378-1286

5002 Basin Street, Suite A1

Midland, Texas 79703

Tel (432) 609-6301

Fax (432) 689-6313

200 East Sunset Rd., Suite E

El Paso, Texas 79922

Tel (915) 585-3443

Fax (915) 585-4944

T (800) 688-3443

8008 Camp Bowie Blvd. West, Suite 180

Ft. Worth, Texas 76116

Tel (817) 201-5280

Fax (817) 580-4336

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		TIME	DATE	Temp °C	Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE					
03059	MW-31	2	100	X											11/14/13	1300		
03060	MW-33														1340			
03061	MW-9														1400			
03062	MW-15														1415			
03063	MW-13														1430			
03064	MW-10														1450			
03065	MW-7														1510			
03066	MW-32														1525			
03067	MW-3														1545			
03068	MW-37														1600			
03069	MW-16														1615			

REMARKS: all test - midland

LAB USE ONLY

Temp °C

Time

Date

Company

Received by:

Time

Date

Company

Received by:

Time

Date

Company

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Units Are Needed

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

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Center #

TraceAnalysis, Inc.

email: lab@traceanalysis.com

LAB Order ID #

7111615

Page 3 of 3

6701 Aberdeen Avenue, Suite 9
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1 (888) 688-3443

8808 Camp Bowie Blvd. West, Suite 180
FL Worth, Texas 75118
Tel (817) 201-5260
Fax (817) 580-4336

Phone #: 432-520-7120
Fax #: 432-520-7101
E-mail:

Project Name: *Turn-LF-2000-7*
Project Location (including state): *New Mexico*

Project Number: *2057 Commercial*
Contract Person: *Curt Stanley*
Invoice to: *Plains*
(if different from above)
Project #:

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

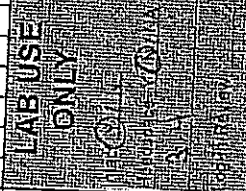
Project Name: *Bob Doherty*
Sampler Signature: *[Signature]*

ANALYSIS REQUEST (Circle or Specify Method No.)

FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING	DATE	TIME	Temp °C
MW-14	2	V ₁₀₀	WATER	X	SLUDGE	11/14	1630	
MW-8	1	V ₁₀₀	AIR			11/15	1645	
MW-6	1	V ₁₀₀	SOIL			11/15	1700	
MW-7	1	V ₁₀₀	WATER			11/15	1630	
MW-3B	1	V ₁₀₀	SLUDGE			11/15	1630	
MW-1	1	V ₁₀₀	AIR			11/15	1630	
MW-4	1	V ₁₀₀	SOIL			11/15	1630	

REMARKS:
all tests - midland

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



Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C
<i>[Signature]</i>	<i>Nov</i>	<i>11/16/07</i>	<i>18:47</i>	<i>[Signature]</i>	<i>Nov</i>	<i>11/16/07</i>	<i>08:47</i>	<i>3.1</i>

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

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Carrier #

[Signature]

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name:

Address: (Street, City, Zip)

Contact Person:

Invoice to:

(If different from above)

Project #:

Project Location (including state):

TOWN - LF - 2000-7

New Mexico

Project Name:

Bob Doherty

Sampler Signature:

Quota

Phone #:

432-520-7720

Fax #:

432-520-7701

E-mail:

LAB Order ID #

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Page 1 of 3

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Fax (817) 560-4336

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ex(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	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content
Turn Around Time if different from standard															

REMARKS:

all - Midland

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

LAB USE ONLY

Inlet: 07/17/11	Headspace: 07/17/11	Log-In Review: 07/17/11
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Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
Quota	New Mexico	11/16/07	8:47	Quota	New Mexico	11/16/07	8:47	3.4°
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
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Carrier #

any

11/29 EP

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name:

Address:

Contact Person:

Invoice to:

Project #:

Project Location (including state):

Project Name:

Supplier Signature:

CONTAINERS

Volume / Amount

MATRIX

WATER

AIR

SLUDGE

PRESERVATIVE

METHOD

ICE

NaOH

H₂SO₄

HNO₃

HCl

SAMPLING

DATE

TIME

Temp °C

Temp °F

Turn Around Time if different from standard

Moisture Content

BOD, TSS, pH

Pesticides 8081A / 608

PCBs 8082 / 608

GC/MS Semi. Vol. 8270C / 625

GC/MS Vol. 8260B / 624

RCI

TCLP Pesticides

TCLP Semi Volatiles

TCLP Volatiles

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/200.7

PAH 8270C / 625

TPH 8015 GRO / DRO / TVHC

TPH 418.1 / TX1005 / TX1005 EKK(C35)

MTBE 8021B / 602 / 8260B / 624

LAB #

(LAB USE ONLY)

030

031

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Relinquished by:

Company:

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Relinquished by:

Company:

Date:



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
290 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

Analytical and Quality Control Report

Curt Stanley
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 26, 2008

Work Order: 8022108



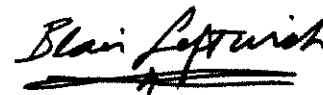
Project Location: West of Monument, NM
Project Name: Bob Dnrham
Project Number: TNM-LF-2000-7

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
151233	MW 23	water	2008-02-20	09:45	2008-02-21
151234	MW 26	water	2008-02-20	10:30	2008-02-21
151235	MW 28	water	2008-02-20	11:00	2008-02-21
151236	MW 31	water	2008-02-20	11:45	2008-02-21
151237	MW 33	water	2008-02-20	12:00	2008-02-21
151238	MW 9	water	2008-02-20	12:15	2008-02-21
151239	MW 15	water	2008-02-20	12:30	2008-02-21
151240	MW 10	water	2008-02-20	12:45	2008-02-21
151241	MW 7	water	2008-02-20	13:00	2008-02-21
151242	MW 32	water	2008-02-20	13:15	2008-02-21
151243	MW 3	water	2008-02-20	13:30	2008-02-21
151244	MW 37	water	2008-02-20	13:45	2008-02-21
151245	MW 8	water	2008-02-20	14:15	2008-02-21
151246	MW 1	water	2008-02-20	14:30	2008-02-21
151247	MW 13	water	2008-02-20	14:45	2008-02-21
151248	MW 4	water	2008-02-20	15:00	2008-02-21
151249	MW 16	water	2008-02-20	15:30	2008-02-21
151250	MW 6	water	2008-02-20	15:45	2008-02-21
151251	MW 2	water	2008-02-20	16:15	2008-02-21
151252	MW 38	water	2008-02-20	16:45	2008-02-21

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

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

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 151233 - MW 23

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	70 - 130

Sample: 151234 - MW 26

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	70 - 130

Sample: 151235 - MW 28

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	70 - 130

Sample: 151236 - MW 31

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	70 - 130

Sample: 151237 - MW 33

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	70 - 130

Sample: 151238 - MW 9

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100

continued ...

sample 151238 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	70 - 130
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	70 - 130

Sample: 151239 - MW 15

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 45872	Date Analyzed: 2008-02-22	Analyzed By: DC
Prep Batch: 39433	Sample Preparation: 2008-02-21	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	70 - 130
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	70 - 130

Sample: 151240 - MW 10

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 45872	Date Analyzed: 2008-02-22	Analyzed By: DC
Prep Batch: 39433	Sample Preparation: 2008-02-21	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00110	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.110	mg/L	1	0.100	110	70 - 130
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	70 - 130

Sample: 151241 - MW 7

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00170	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	70 - 130
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	70 - 130

Sample: 151242 - MW 32

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00250	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	70 - 130

Sample: 151243 - MW 3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	45872	Date Analyzed:	2008-02-22	Analyzed By:	DC
Prep Batch:	39433	Sample Preparation:	2008-02-21	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00160	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	70 - 130
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	70 - 130

Sample: 151244 - MW 37

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	70 - 130

Sample: 151245 - MW 8

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	70 - 130
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	70 - 130

Sample: 151246 - MW 1

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0310	mg/L	1	0.00100

continued ...

sample 151246 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.108	mg/L	1	0.00100
Xylene		0.0727	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	70 - 130
4-Bromofluorobenzene (4-BFB)	¹	0.134	mg/L	1	0.100	134	70 - 130

Sample: 151247 - MW 13

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 45872	Date Analyzed: 2008-02-22	Analyzed By: DC
Prep Batch: 39433	Sample Preparation: 2008-02-21	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00240	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00180	mg/L	1	0.00100
Xylene		0.00130	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)	²	0.131	mg/L	1	0.100	131	70 - 130

Sample: 151248 - MW 4

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 45872	Date Analyzed: 2008-02-22	Analyzed By: DC
Prep Batch: 39433	Sample Preparation: 2008-02-21	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00360	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0203	mg/L	1	0.00100
Xylene		0.0344	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	70 - 130

¹High surrogate recovery due to peak interference.

²High surrogate recovery due to peak interference.

Sample: 151249 - MW 16

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00290	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00480	mg/L	1	0.00100
Xylene		0.00330	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)		0.121	mg/L	1	0.100	121	70 - 130

Sample: 151250 - MW 6

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 Sample Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00500	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		<0.00500	mg/L	5	0.00100
Xylene		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.519	mg/L	5	0.500	104	70 - 130
4-Bromofluorobenzene (4-BFB)		0.542	mg/L	5	0.500	108	70 - 130

Sample: 151251 - MW 2

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45941 Date Analyzed: 2008-02-25 Analyzed By: DC
Prep Batch: 39552 Sample Preparation: 2008-02-25 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0219	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00200	mg/L	1	0.00100
Xylene		0.00120	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	³	0.131	mg/L	1	0.100	131	70 - 130

Sample: 151252 - MW 38

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 45941 Date Analyzed: 2008-02-25 Analyzed By: DC
Prep Batch: 39552 Sample Preparation: 2008-02-25 Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0242	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.125	mg/L	1	0.00100
Xylene		0.00740	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.125	mg/L	1	0.100	125	70 - 130

Method Blank (1) QC Batch: 45872

QC Batch: 45872 Date Analyzed: 2008-02-22 Analyzed By: DC
Prep Batch: 39433 QC Preparation: 2008-02-21 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70 - 130
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	70 - 130

Method Blank (1) QC Batch: 45941

QC Batch: 45941 Date Analyzed: 2008-02-25 Analyzed By: DC
Prep Batch: 39552 QC Preparation: 2008-02-25 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001

continued ...

³High surrogate recovery due to peak interference.

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45872
Prep Batch: 39433

Date Analyzed: 2008-02-22
QC Preparation: 2008-02-21

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.104	mg/L	1	0.100	<0.000300	104	70 - 130
Toluene	0.104	mg/L	1	0.100	<0.000200	104	70 - 130
Ethylbenzene	0.105	mg/L	1	0.100	<0.000500	105	70 - 130
Xylene	0.314	mg/L	1	0.300	<0.000400	105	70 - 130

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	0.103	mg/L	1	0.100	<0.000300	103	70 - 130	1	20
Toluene	0.104	mg/L	1	0.100	<0.000200	104	70 - 130	0	20
Ethylbenzene	0.105	mg/L	1	0.100	<0.000500	105	70 - 130	0	20
Xylene	0.312	mg/L	1	0.300	<0.000400	104	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.105	0.105	mg/L	1	0.100	105	105	70 - 130
4-Bromofluorobenzene (4-BFB)	0.106	0.107	mg/L	1	0.100	106	107	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45941
Prep Batch: 39552

Date Analyzed: 2008-02-25
QC Preparation: 2008-02-25

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.110	mg/L	1	0.100	<0.000300	110	70 - 130
Toluene	0.111	mg/L	1	0.100	<0.000200	111	70 - 130
Ethylbenzene	0.112	mg/L	1	0.100	<0.000500	112	70 - 130
Xylene	0.334	mg/L	1	0.300	<0.000400	111	70 - 130

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	0.109	mg/L	1	0.100	<0.000300	109	70 - 130	1	20
Toluene	0.110	mg/L	1	0.100	<0.000200	110	70 - 130	1	20
Ethylbenzene	0.112	mg/L	1	0.100	<0.000500	112	70 - 130	0	20
Xylene	0.333	mg/L	1	0.300	<0.000400	111	70 - 130	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.100	mg/L	1	0.100	101	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.115	0.116	mg/L	1	0.100	115	116	70 - 130

Matrix Spike (MS-1) Spiked Sample: 151250

QC Batch: 45872
Prep Batch: 39433

Date Analyzed: 2008-02-22
QC Preparation: 2008-02-21

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.484	mg/L	5	0.500	<0.00150	97	70 - 130
Toluene	0.481	mg/L	5	0.500	<0.00100	96	70 - 130
Ethylbenzene	0.489	mg/L	5	0.500	0.0036	97	70 - 130
Xylene	1.45	mg/L	5	1.50	0.0048	96	70 - 130

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	0.492	mg/L	5	0.500	<0.00150	98	70 - 130	2	20
Toluene	0.496	mg/L	5	0.500	<0.00100	99	70 - 130	3	20
Ethylbenzene	0.499	mg/L	5	0.500	0.0036	99	70 - 130	2	20
Xylene	1.48	mg/L	5	1.50	0.0048	98	70 - 130	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.516	0.526	mg/L	5	0.5	103	105	70 - 130
4-Bromofluorobenzene (4-BFB)	0.544	0.545	mg/L	5	0.5	109	109	70 - 130

Matrix Spike (MS-1) Spiked Sample: 151571

QC Batch: 45941
Prep Batch: 39552

Date Analyzed: 2008-02-25
QC Preparation: 2008-02-25

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.490	mg/L	5	0.500	<0.00150	98	70 - 130
Toluene	0.494	mg/L	5	0.500	<0.00100	99	70 - 130
Ethylbenzene	0.501	mg/L	5	0.500	<0.00250	100	70 - 130
Xylene	1.49	mg/L	5	1.50	<0.00200	99	70 - 130

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	0.505	mg/L	5	0.500	<0.00150	101	70 - 130	3	20
Toluene	0.510	mg/L	5	0.500	<0.00100	102	70 - 130	3	20
Ethylbenzene	0.518	mg/L	5	0.500	<0.00250	104	70 - 130	3	20
Xylene	1.55	mg/L	5	1.50	<0.00200	103	70 - 130	4	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.556	0.553	mg/L	5	0.5	111	111	70 - 130
4-Bromofluorobenzene (4-BFB)	0.564	0.564	mg/L	5	0.5	113	113	70 - 130

Standard (ICV-1)

QC Batch: 45872

Date Analyzed: 2008-02-22

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-02-22
Toluene		mg/L	0.100	0.105	105	85 - 115	2008-02-22
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2008-02-22
Xylene		mg/L	0.300	0.315	105	85 - 115	2008-02-22

Standard (CCV-1)

QC Batch: 45872

Date Analyzed: 2008-02-22

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2008-02-22
Toluene		mg/L	0.100	0.109	109	85 - 115	2008-02-22
Ethylbenzene		mg/L	0.100	0.110	110	85 - 115	2008-02-22
Xylene		mg/L	0.300	0.329	110	85 - 115	2008-02-22

Standard (ICV-1)

QC Batch: 45941

Date Analyzed: 2008-02-25

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2008-02-25
Toluene		mg/L	0.100	0.111	111	85 - 115	2008-02-25
Ethylbenzene		mg/L	0.100	0.114	114	85 - 115	2008-02-25
Xylene		mg/L	0.300	0.342	114	85 - 115	2008-02-25

Standard (CCV-1)

QC Batch: 45941

Date Analyzed: 2008-02-25

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	85 - 115	2008-02-25
Toluene		mg/L	0.100	0.112	112	85 - 115	2008-02-25
Ethylbenzene	⁴	mg/L	0.100	0.116	116	85 - 115	2008-02-25
Xylene	⁵	mg/L	0.300	0.348	116	85 - 115	2008-02-25

⁴Ethylbenzene outside of control limits on CCV. CCV component average is .1129 which is within acceptable range. This is acceptable by Method 8000.

⁵Xylene outside of control limits on CCV. CCV component average is .1129 which is within acceptable range. This is acceptable by Method 8000.

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Project #:

Project Location (including state): NM

Project Name:

Samp1er Signature: Bob Durkin

Samp1er Signature:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (AB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME	Turn Around Time if different from standard	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE			DATE
21233	mw 23	3	100g	X				X				X		2208	945	
234	mw 26	1	100g											1030		
235	mw 28	1	100g											1100		
236	mw 31	1	100g											1145		
237	mw 33	1	100g											1200		
238	mw 9	1	100g											1215		
239	mw 15	1	100g											1230		
240	mw 10	1	100g											1245		
241	mw 7	1	100g											1300		
242	mw 32	1	100g											1315		
243	mw 3	1	100g											1330		

REMARKS: all tests - Medland

LAB USE ONLY

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

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

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Carrier #

Cung

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1 (800) 378-1296

5002 Basin Street, Suite A1

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1 (888) 588-3443

8808 Camp Bowie Blvd. West, Suite 180

Ft. Worth, Texas 76116

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Company Name: Nova Phone #: 432-520-7720

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

Contact Person: 2057 Commerce

Curt Stanley

Invoice to: Plains

if different from above)

Project #:

TMM-LF-2000-7

Project Location (including state):

NM

Project Name: Bob Durham

Sampler Signature: 37

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # AB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME	Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		
51241	mw 37	3	voa X	X						X				1345	
245	mw 8													1415	
246	mw 1													1430	
247	mw 13													1445	
248	mw 4													1500	
249	mw 16													1530	
250	mw 6													1545	
251	mw 2													1615	
252	mw 38													1645	
	mw 5														

REMARKS: all test - Midland

LAB USE ONLY

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

Received by: [Signature] Date: 2/1/00 Time: 2:30
 Company: Trace

Relinquished by: [Signature] Date: 2-1-00 Time: 838
 Company: Nova

Received by: [Signature] Date: Time: Temp: 30
 Company:

Relinquished by: [Signature] Date: Time: Temp:
 Company:

Received by: [Signature] Date: Time: Temp:
 Company:

Relinquished by: [Signature] Date: Time: Temp:
 Company:

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

Carrier # [Signature]

ORIGINAL COPY



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•376•1296 806•794•1296 FAX 806•794•1296
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

Analytical and Quality Control Report

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

Report Date: May 28, 2008

Work Order: 8052201



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

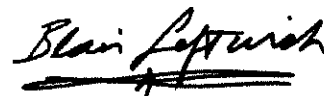
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
160749	MW 7	water	2008-05-20	12:00	2008-05-22
160750	MW 8	water	2008-05-20	12:30	2008-05-22
160751	MW 6	water	2008-05-20	13:00	2008-05-22
160752	MW 3	water	2008-05-20	13:30	2008-05-22
160753	MW 16	water	2008-05-20	14:00	2008-05-22
160754	MW 2	water	2008-05-20	14:30	2008-05-22
160755	MW 5	water	2008-05-20	15:00	2008-05-22
160756	MW 23	water	2008-05-21	09:45	2008-05-22
160757	MW 24	water	2008-05-21	10:00	2008-05-22
160758	MW 26	water	2008-05-21	10:15	2008-05-22
160759	MW 27	water	2008-05-21	10:30	2008-05-22
160760	MW 28	water	2008-05-21	10:45	2008-05-22
160761	MW 31	water	2008-05-21	11:00	2008-05-22
160762	MW 33	water	2008-05-21	11:15	2008-05-22
160763	MW 9	water	2008-05-21	11:30	2008-05-22
160764	MW 15	water	2008-05-21	11:45	2008-05-22
160765	MW 10	water	2008-05-21	12:00	2008-05-22

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
160766	MW 32	water	2008-05-21	12:15	2008-05-22
160767	MW 37	water	2008-05-21	12:30	2008-05-22
160768	MW 14	water	2008-05-21	12:45	2008-05-22
160769	MW 13	water	2008-05-21	13:00	2008-05-22
160770	MW 38	water	2008-05-21	13:15	2008-05-22

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



Dr. Blair Leftwich, Director

Certifications

Lubbock - NELAP T104704219-08-TX

El Paso - NELAP T104704221-08-TX

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2008-05-22 and assigned to work order 8052201. Samples for work order 8052201 were received intact without headspace and at a temperature of 3.2 deg C.

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

Test	Method
BTEX	S 8021B

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 8052201 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

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TNM-LF-2000-7

Work Order: 8052201
Bob Durham

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West of Monument, NM

Analytical Report

Sample: 160749 - MW 7

Laboratory: Midland

Analysis: BTEX

QC Batch: 48720

Prep Batch: 41827

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00120	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	70 - 130

Sample: 160750 - MW 8

Laboratory: Midland

Analysis: BTEX

QC Batch: 48720

Prep Batch: 41827

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0893	mg/L	1	0.100	89	70 - 130

Sample: 160751 - MW 6

Laboratory: Midland

Analysis: BTEX

QC Batch: 48720

Prep Batch: 41827

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Report Date: May 28, 2008
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00380	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00340	mg/L	1	0.00100
Xylene		0.00320	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0887	mg/L	1	0.100	89	70 - 130

Sample: 160752 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0876	mg/L	1	0.100	88	70 - 130

Sample: 160753 - MW 16

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00210	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00330	mg/L	1	0.00100
Xylene		0.00220	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0972	mg/L	1	0.100	97	70 - 130

Sample: 160754 - MW 2

Laboratory: Midland

Analysis: BTEX

QC Batch: 48720

Prep Batch: 41827

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0185	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	70 - 130

Sample: 160755 - MW 5

Laboratory: Midland

Analysis: BTEX

QC Batch: 48720

Prep Batch: 41827

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-22

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0995	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		0.0170	mg/L	5	0.00100
Xylene		<0.00500	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.480	mg/L	5	0.500	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.441	mg/L	5	0.500	88	70 - 130

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Sample: 160756 - MW 23

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0994	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0882	mg/L	1	0.100	88	70 - 130

Sample: 160757 - MW 24

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0842	mg/L	1	0.100	84	70 - 130

Sample: 160758 - MW 26

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0969	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0863	mg/L	1	0.100	86	70 - 130

Sample: 160759 - MW 27

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0869	mg/L	1	0.100	87	70 - 130

Sample: 160760 - MW 28

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	70 - 130

Sample: 160761 - MW 31

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0949	mg/L	1	0.100	95	70 - 130

Sample: 160762 - MW 33

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0864	mg/L	1	0.100	86	70 - 130

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Sample: 160763 - MW 9

Laboratory: Midland
Analysis: BTEX
QC Batch: 48720
Prep Batch: 41827

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-22

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0882	mg/L	1	0.100	88	70 - 130

Sample: 160764 - MW 15

Laboratory: Midland
Analysis: BTEX
QC Batch: 48752
Prep Batch: 41851

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-23

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0964	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	70 - 130

Sample: 160765 - MW 10

Laboratory: Midland
Analysis: BTEX
QC Batch: 48752
Prep Batch: 41851

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-23

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Report Date: May 28, 2008
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0963	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0863	mg/L	1	0.100	86	70 - 130

Sample: 160766 - MW 32

Laboratory: Midland
Analysis: BTEX
QC Batch: 48752
Prep Batch: 41851

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-23

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0955	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0859	mg/L	1	0.100	86	70 - 130

Sample: 160767 - MW 37

Laboratory: Midland
Analysis: BTEX
QC Batch: 48752
Prep Batch: 41851

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-23

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0871	mg/L	1	0.100	87	70 - 130

Sample: 160768 - MW 14

Laboratory: Midland

Analysis: BTEX

QC Batch: 48752

Prep Batch: 41851

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-23

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbeuzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0944	mg/L	1	0.100	94	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0847	mg/L	1	0.100	85	70 - 130

Sample: 160769 - MW 13

Laboratory: Midland

Analysis: BTEX

QC Batch: 48752

Prep Batch: 41851

Analytical Method: S 8021B

Date Analyzed: 2008-05-23

Sample Preparation: 2008-05-23

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0187	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0994	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	70 - 130

Report Date: May 28, 2008
TNM-LF-2000-7

Work Order: 8052201
Bob Durham

Page Number: 13 of 17
West of Monument, NM

Sample: 160770 - MW 38

Laboratory: Midland
Analysis: BTEX
QC Batch: 48752
Prep Batch: 41851

Analytical Method: S 8021B
Date Analyzed: 2008-05-23
Sample Preparation: 2008-05-23

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0121	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0287	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0878	mg/L	1	0.100	88	70 - 130

Method Blank (1) QC Batch: 48720

QC Batch: 48720
Prep Batch: 41827

Date Analyzed: 2008-05-23
QC Preparation: 2008-05-22

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0962	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0860	mg/L	1	0.100	86	70 - 130

Method Blank (1) QC Batch: 48752

QC Batch: 48752
Prep Batch: 41851

Date Analyzed: 2008-05-23
QC Preparation: 2008-05-23

Analyzed By: DC
Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0874	mg/L	1	0.100	87	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 48720
Prep Batch: 41827

Date Analyzed: 2008-05-23
QC Preparation: 2008-05-22

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0819	mg/L	1	0.100	<0.000200	82	70 - 130
Toluene	0.0827	mg/L	1	0.100	<0.000200	83	70 - 130
Ethylbenzene	0.0837	mg/L	1	0.100	<0.000200	84	70 - 130
Xylene	0.248	mg/L	1	0.300	<0.000300	83	70 - 130

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	0.0851	mg/L	1	0.100	<0.000200	85	70 - 130	4	20
Toluene	0.0868	mg/L	1	0.100	<0.000200	87	70 - 130	5	20
Ethylbenzene	0.0896	mg/L	1	0.100	<0.000200	90	70 - 130	7	20
Xylene	0.265	mg/L	1	0.300	<0.000300	88	70 - 130	7	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)	0.0955	0.0957	mg/L	1	0.100	96	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0860	0.0867	mg/L	1	0.100	86	87	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 48752
Prep Batch: 41851

Date Analyzed: 2008-05-23
QC Preparation: 2008-05-23

Analyzed By: DC
Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0944	mg/L	1	0.100	<0.000200	94	70 - 130
Toluene	0.0976	mg/L	1	0.100	<0.000200	98	70 - 130
Ethylbenzene	0.101	mg/L	1	0.100	<0.000200	101	70 - 130
Xylene	0.298	mg/L	1	0.300	<0.000300	99	70 - 130

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	0.0936	mg/L	1	0.100	<0.000200	94	70 - 130	1	20
Toluene	0.0967	mg/L	1	0.100	<0.000200	97	70 - 130	1	20
Ethylbenzene	0.0997	mg/L	1	0.100	<0.000200	100	70 - 130	1	20
Xylene	0.294	mg/L	1	0.300	<0.000300	98	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0981	0.0993	mg/L	1	0.100	98	99	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0893	0.0899	mg/L	1	0.100	89	90	70 - 130

Matrix Spike (MS-1) Spiked Sample: 160747

QC Batch: 48720
Prep Batch: 41827

Date Analyzed: 2008-05-23
QC Preparation: 2008-05-22

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	7.99	mg/L	50	5.00	3.115	98	70 - 130
Toluene	4.69	mg/L	50	5.00	0.0763	92	70 - 130
Ethylbenzene	4.71	mg/L	50	5.00	0.0199	94	70 - 130
Xylene	13.8	mg/L	50	15.0	0.0368	92	70 - 130

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	7.89	mg/L	50	5.00	3.115	96	70 - 130	1	20
Toluene	4.64	mg/L	50	5.00	0.0763	91	70 - 130	1	20
Ethylbenzene	4.61	mg/L	50	5.00	0.0199	92	70 - 130	2	20
Xylene	13.6	mg/L	50	15.0	0.0368	90	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5.27	5.32	mg/L	50	5	105	106	70 - 130

continued ...

Report Date: May 28, 2008
TNM-LF-2000-7

Work Order: 8052201
Bob Durham

Page Number: 16 of 17
West of Mouument, NM

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	4.76	4.80	mg/L	50	5	95	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 160841

QC Batch: 48752

Date Analyzed: 2008-05-23

Analyzed By: DC

Prep Batch: 41851

QC Preparation: 2008-05-23

Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.378	mg/L	5	0.500	0.0053	74	70 - 130
Toluene	0.385	mg/L	5	0.500	<0.00100	77	70 - 130
Ethylbenzene	0.398	mg/L	5	0.500	<0.00100	80	70 - 130
Xylene	1.17	mg/L	5	1.50	<0.00150	78	70 - 130

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	0.378	mg/L	5	0.500	0.0053	74	70 - 130	0	20
Toluene	0.385	mg/L	5	0.500	<0.00100	77	70 - 130	0	20
Ethylbenzene	0.399	mg/L	5	0.500	<0.00100	80	70 - 130	0	20
Xylene	1.18	mg/L	5	1.50	<0.00150	79	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.471	0.478	mg/L	5	0.5	94	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.429	0.434	mg/L	5	0.5	86	87	70 - 130

Standard (ICV-1)

QC Batch: 48720

Date Analyzed: 2008-05-23

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0872	87	85 - 115	2008-05-23
Toluene		mg/L	0.100	0.0891	89	85 - 115	2008-05-23
Ethylbenzene		mg/L	0.100	0.0919	92	85 - 115	2008-05-23
Xylene		mg/L	0.300	0.272	91	85 - 115	2008-05-23

Standard (CCV-1)

QC Batch: 48720

Date Analyzed: 2008-05-23

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0846	85	85 - 115	2008-05-23
Toluene		mg/L	0.100	0.0857	86	85 - 115	2008-05-23
Ethylbenzene		mg/L	0.100	0.0879	88	85 - 115	2008-05-23
Xylene		mg/L	0.300	0.259	86	85 - 115	2008-05-23

Standard (ICV-1)

QC Batch: 48752

Date Analyzed: 2008-05-23

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0849	85	85 - 115	2008-05-23
Toluene		mg/L	0.100	0.0870	87	85 - 115	2008-05-23
Ethylbenzene		mg/L	0.100	0.0897	90	85 - 115	2008-05-23
Xylene		mg/L	0.300	0.265	88	85 - 115	2008-05-23

Standard (CCV-1)

QC Batch: 48752

Date Analyzed: 2008-05-23

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-05-23
Toluene		mg/L	0.100	0.106	106	85 - 115	2008-05-23
Ethylbenzene		mg/L	0.100	0.109	109	85 - 115	2008-05-23
Xylene		mg/L	0.300	0.322	107	85 - 115	2008-05-23

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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1 (888) 588-3443

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Ft. Worth, Texas 76116
Tel (817) 201-5260
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Company Name: NOVA
 Address: (Street, City, Zip)
 2057 Commerce Dr.
 Contact Person: Ron R.
 Invoice to: (If different from above)
 Plains
 Project #: TNM - LF - 2000 - 7
 Project Location (including state): NM
 Phone #: 432-520-7720
 Fax #:
 E-mail:
 Project Name: Bob Durham
 Sampler Signature: JM

ANALYSIS REQUEST

(Circle or Specify Method No.)

Contact Person: Ron R.		E-mail:														
Invoice to: (If different from above) Plains																
Project #: TNM - LF - 2000 - 7		Project Name: Bob Durham														
Project Location (including state): NM		Sampler Signature: JM														
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD						SAMPLING		Turn Around Time if different from standard	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME
1105149	MW 7	3	VOL	X				X				X		5-20-8	1200	
750	MW 8	3	VOL	X				X				X		5-20-8	1230	
751	MW 6	3	VOL	X				X				X		5-20-8	1300	
752	MW 3	3	VOL	X				X				X		5-20-8	1330	
753	MW 16	3	VOL	X				X				X		5-20-8	1400	
754	MW 2	3	VOL	X				X				X		5-20-8	1430	
755	MW 5	3	VOL	X				X				X		5-20-8	1500	
756	MW 23	3	VOL	X				X				X		5-21-8	945	
757	MW 24	3	VOL	X				X				X		5-21-8	1000	
758	MW 26	3	VOL	X				X				X		5-21-8	1015	
759	MW 27	3	VOL	X				X				X		5-21-8	1030	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
James Nava	Nava	5/22/08	8:00 AM	Dawn Cardal		5/22/08	8:00	
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				REMARKS:				
Initial: <u>Y/N</u>				All test - Midland				
Headspace <u>Y/N/NA</u>				☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed				
Log-in-Review: <u>7</u>								

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

Carrier # WFLK 12

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd. West, Suite 180
Ft. Worth, Texas 76116
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LAB Order ID #

8052201

Page 2 of 2

Company Name:

NOVA

Address: (Street, City, Zip)

2057 Commerce Dr.

Contact Person:

Ran R.

Invoice to:

(If different from above) PLAINS

Project #:

NM - LF-2000-7

Project Location (including state):

NM

Project Name:

Bob Durham

Sampler Signature:

JM

Phone #:

432-520-7720

Fax #:

E-mail:

ANALYSIS REQUEST

(Circle or Specify Method No.)

Contact Person: <u>Ran R.</u>		E-mail:													
Invoice to:															
(If different from above)															
Project #: <u>TNM - LF-2000-7</u>		Project Name: <u>Bob Durham</u>													
Project Location (including state): <u>NM</u>		Sampler Signature: <u>Jm</u>													
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		Turn Around Time if different from standard	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE
11007100	MW28	3	VOL	X				X				X	5/21/8	1045	
7101	MW31	3	VOL	X				X				X	5/21/8	1100	
7102	MW33	3	VOL	X				X				X	5/21/8	1115	
7103	MW9	3	VOL	X				X				X	5/21/8	1130	
7104	MW15	3	VOL	X				X				X	5/21/8	1145	
7105	MW10	3	VOL	X				X				X	5/21/8	1200	
7106	MW32	3	VOL	X				X				X	5/21/8	1215	
7107	MW37	3	VOL	X				X				X	5/21/8	1230	
7108	MW14	3	VOL	X				X				X	5/21/8	1245	
7109	MW13	3	VOL	X				X				X	5/21/8	1300	
7110	MW38	3	VOL	X				X				X	5/21/8	1315	
MTBE 8021B / 602 / 8260B / 624															
BTX 8021B 602 / 8260B / 624															
TPH 418.1 / TX1005 / TX1005 Ex(C35)															
TPH B015 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															
PCBs 8082 / 608															
Pesticides 8081A / 608															
BOD, TSS, pH															
Moisture Content															
Hold															

Relinquished by: <u>Frank Lopez</u>	Company: <u>Nova</u>	Date: <u>5/22/08</u>	Time: <u>8:00am</u>	Received by: <u>Dawn Cabel</u>	Company: <u></u>	Date: <u>5/22/08</u>	Time: <u>5:00</u>
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

LAB USE ONLY

REMARKS:

All tests - Midland

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

Intact DN

Headspace Y/N/NA

3.2 °

Log-in-Review A

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

Carrier # CARRY IN



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: June 11, 2008

Work Order: 8060642



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
162256	MW 1	water	2008-06-05	14:30	2008-06-06

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

Dr. Blair Leftwich, Director

Certifications

Lubbock - NELAP T104704219-08-TX
El Paso - NELAP T104704221-08-TX

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2008-06-06 and assigned to work order 8060642. Samples for work order 8060642 were received intact without headspace and at a temperature of 4.0 deg C.

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

Test	Method
BTEX	S 8021B

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 8060642 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.

Report Date: June 11, 2008
TNM-LF-2000-7

Work Order: 8060642
Bob Durham

Page Number: 4 of 6
West of Monument, NM

Analytical Report

Sample: 162256 - MW 1

Laboratory: Midland

Analysis: BTEX

QC Batch: 49208

Prep Batch: 42246

Analytical Method: S 8021B

Date Analyzed: 2008-06-10

Sample Preparation: 2008-06-09

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0466	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0244	mg/L	1	0.00100
Xylene		0.0208	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	52 - 124.1

Method Blank (1) QC Batch: 49208

QC Batch: 49208

Prep Batch: 42246

Date Analyzed: 2008-06-10

QC Preparation: 2008-06-09

Analyzed By: DC

Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0920	mg/L	1	0.100	92	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0903	mg/L	1	0.100	90	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 49208

Prep Batch: 42246

Date Analyzed: 2008-06-10

QC Preparation: 2008-06-09

Analyzed By: DC

Prepared By: DC

Report Date: June 11, 2008
TNM-LF-2000-7

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0837	mg/L	1	0.100	<0.000200	84	71.7 - 120.5
Toluene	0.0838	mg/L	1	0.100	<0.000200	84	75.4 - 118.8
Ethylbenzene	0.0835	mg/L	1	0.100	<0.000200	84	73.5 - 118
Xylene	0.251	mg/L	1	0.300	<0.000300	84	72.9 - 118.2

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0832	mg/L	1	0.100	<0.000200	83	71.7 - 120.5	1	20
Toluene	0.0833	mg/L	1	0.100	<0.000200	83	75.4 - 118.8	1	20
Ethylbenzene	0.0830	mg/L	1	0.100	<0.000200	83	73.5 - 118	1	20
Xylene	0.248	mg/L	1	0.300	<0.000300	83	72.9 - 118.2	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0937	0.0933	mg/L	1	0.100	94	93	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0928	0.0924	mg/L	1	0.100	93	92	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 162257

QC Batch: 49208
Prep Batch: 42246

Date Analyzed: 2008-06-10
QC Preparation: 2008-06-09

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	8.56	mg/L	50	5.00	3.6152	99	10 - 160.8
Toluene	4.43	mg/L	50	5.00	0.122	86	10 - 160.7
Ethylbenzene	5.40	mg/L	50	5.00	0.9841	88	10 - 158.3
Xylene	12.9	mg/L	50	15.0	0.1792	85	10 - 158

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	8.53	mg/L	50	5.00	3.6152	98	10 - 160.8	0	20
Toluene	4.37	mg/L	50	5.00	0.122	85	10 - 160.7	1	20
Ethylbenzene	5.38	mg/L	50	5.00	0.9841	88	10 - 158.3	0	20
Xylene	12.8	mg/L	50	15.0	0.1792	84	10 - 158	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	4.90	4.82	mg/L	50	5	98	96	33.1 - 132.5

continued ...

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Bob Durham

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matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	4.83	4.76	mg/L	50	5	97	95	37.5 - 136

Standard (ICV-1)

QC Batch: 49208

Date Analyzed: 2008-06-10

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0852	85	85 - 115	2008-06-10
Toluene		mg/L	0.100	0.0856	86	85 - 115	2008-06-10
Ethylbenzene		mg/L	0.100	0.0851	85	85 - 115	2008-06-10
Xylene		mg/L	0.300	0.255	85	85 - 115	2008-06-10

Standard (CCV-1)

QC Batch: 49208

Date Analyzed: 2008-06-10

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-06-10
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-06-10
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-06-10
Xylene		mg/L	0.300	0.306	102	85 - 115	2008-06-10



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E-Mail: lab@traceanalysis.com

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: August 29, 2008

Work Order: 8082127



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM LF 2000-07

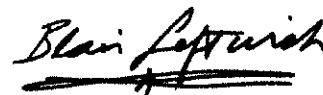
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171384	MW-37	water	2008-08-20	10:00	2008-08-21
171385	MW-8	water	2008-08-20	10:25	2008-08-21
171386	MW-28	water	2008-08-20	10:40	2008-08-21
171387	MW-3	water	2008-08-20	11:00	2008-08-21
171388	MW-16	water	2008-08-20	11:20	2008-08-21
171389	MW-6	water	2008-08-20	11:40	2008-08-21
171390	MW-38	water	2008-08-20	12:00	2008-08-21
171391	MW-2	water	2008-08-20	12:25	2008-08-21
171392	MW-13	water	2008-08-20	12:45	2008-08-21
171393	MW-1	water	2008-08-20	13:00	2008-08-21

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171394	MW-23	water	2008-08-20	12:45	2008-08-21
171395	MW-26	water	2008-08-20	13:15	2008-08-21
171396	MW-31	water	2008-08-20	14:00	2008-08-21
171397	MW-33	water	2008-08-20	14:45	2008-08-21
171398	MW-9	water	2008-08-20	15:20	2008-08-21
171399	MW-15	water	2008-08-20	16:00	2008-08-21
171400	MW-10	water	2008-08-20	16:30	2008-08-21
171401	MW-7	water	2008-08-20	17:15	2008-08-21
171402	MW-32	water	2008-08-20	17:45	2008-08-21

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2008-08-21 and assigned to work order 8082127. Samples for work order 8082127 were received intact without headspace and at a temperature of 3.9 deg. C.

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

Test	Method
BTEX	S 8021B

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 occnrring, however, it may not pertain to the samples for work order 8082127 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.

Report Date: August 29, 2008
TNM LF 2000-07

Work Order: 8082127
Bob Durham

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Analytical Report

Sample: 171384 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	52 - 124.1

Sample: 171385 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.112	mg/L	1	0.100	112	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	52 - 124.1

Sample: 171386 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.113	mg/L	1	0.100	113	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	52 - 124.1

Sample: 171387 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.110	mg/L	1	0.100	110	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52 - 124.1

Sample: 171388 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00130	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00140	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.120	mg/L	1	0.100	120	52 - 124.1

Sample: 171389 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00320	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00270	mg/L	1	0.00100
Xylene		0.00270	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.114	mg/L	1	0.100	114	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.115	mg/L	1	0.100	115	52 - 124.1

Sample: 171390 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0258	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0940	mg/L	1	0.00100
Xylene		0.00340	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.114	mg/L	1	0.100	114	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.120	mg/L	1	0.100	120	52 - 124.1

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Sample: 171391 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0177	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00190	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.123	mg/L	1	0.100	123	52 - 124.1

Sample: 171392 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0121	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00130	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.112	mg/L	1	0.100	112	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)	¹	0.129	mg/L	1	0.100	129	52 - 124.1

Sample: 171393 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

¹High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0809	mg/L	1	0.00100
Toluene		0.00250	mg/L	1	0.00100
Ethylbenzene		0.0482	mg/L	1	0.00100
Xylene		0.0763	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.114	mg/L	1	0.100	114	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)	²	0.136	mg/L	1	0.100	136	52 - 124.1

Sample: 171394 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00160	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52 - 124.1

Sample: 171395 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

²High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

Sample: 171396 - MW-31

Laboratory: Midland

Analysis: BTEX

QC Batch: 51894

Prep Batch: 44472

Analytical Method: S 8021B

Date Analyzed: 2008-08-28

Sample Preparation: 2008-08-28

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	52 - 124.1

Sample: 171397 - MW-33

Laboratory: Midland

Analysis: BTEX

QC Batch: 51894

Prep Batch: 44472

Analytical Method: S 8021B

Date Analyzed: 2008-08-28

Sample Preparation: 2008-08-28

Prep Method: S 5030B

Analyzed By: DC

Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

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Sample: 171398 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

Sample: 171399 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	52 - 124.1

Sample: 171400 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Report Date: August 29, 2008
TNM LF 2000-07

Work Order: 8082127
Bob Durham

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Monument, Lea County, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	52 - 124.1

Sample: 171401 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	52 - 124.1

Sample: 171402 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 51894
Prep Batch: 44472

Analytical Method: S 8021B
Date Analyzed: 2008-08-28
Sample Preparation: 2008-08-28

Prep Method: S 5030B
Analyzed By: DC
Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Report Date: August 29, 2008
TNM LF 2000-07

Work Order: 8082127
Bob Durham

Page Number: 12 of 14
Monument, Lea County, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	52 - 124.1

Method Blank (1) QC Batch: 51894

QC Batch: 51894 Date Analyzed: 2008-08-28 Analyzed By: DC
Prep Batch: 44472 QC Preparation: 2008-08-28 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000500	mg/L	0.001
Toluene		<0.000700	mg/L	0.001
Ethylbenzene		<0.000700	mg/L	0.001
Xylene		<0.00180	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	37.1 - 130.9

Laboratory Control Spike (LCS-1)

QC Batch: 51894 Date Analyzed: 2008-08-28 Analyzed By: DC
Prep Batch: 44472 QC Preparation: 2008-08-28 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.112	mg/L	1	0.100	<0.000500	112	71.7 - 120.5
Toluene	0.110	mg/L	1	0.100	<0.000700	110	75.4 - 118.8
Ethylbenzene	0.109	mg/L	1	0.100	<0.000700	109	73.5 - 118
Xylene	0.325	mg/L	1	0.300	<0.00180	108	72.9 - 118.2

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	0.112	mg/L	1	0.100	<0.000500	112	71.7 - 120.5	0	20
Toluene	0.111	mg/L	1	0.100	<0.000700	111	75.4 - 118.8	1	20
Ethylbenzene	0.110	mg/L	1	0.100	<0.000700	110	73.5 - 118	1	20
Xylene	0.330	mg/L	1	0.300	<0.00180	110	72.9 - 118.2	2	20

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

Report Date: August 29, 2008
TNM LF 2000-07

Work Order: 8082127
Bob Durham

Page Number: 13 of 14
Monument, Lea County, NM

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.109	0.107	mg/L	1	0.100	109	107	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.109	0.109	mg/L	1	0.100	109	109	43.9 - 132.4

Matrix Spike (MS-1) Spiked Sample: 171422

QC Batch: 51894
Prep Batch: 44472

Date Analyzed: 2008-08-28
QC Preparation: 2008-08-28

Analyzed By: DC
Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0956	mg/L	1	0.100	<0.000500	96	10 - 160.8
Toluene	0.0922	mg/L	1	0.100	<0.000700	92	10 - 160.7
Ethylbenzene	0.0904	mg/L	1	0.100	<0.000700	90	10 - 158.3
Xylene	0.269	mg/L	1	0.300	<0.00180	90	10 - 158

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	0.100	mg/L	1	0.100	<0.000500	100	10 - 160.8	4	20
Toluene	0.0990	mg/L	1	0.100	<0.000700	99	10 - 160.7	7	20
Ethylbenzene	0.0980	mg/L	1	0.100	<0.000700	98	10 - 158.3	8	20
Xylene	0.294	mg/L	1	0.300	<0.00180	98	10 - 158	9	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)	0.107	0.106	mg/L	1	0.1	107	106	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.109	0.108	mg/L	1	0.1	109	108	37.5 - 136

Standard (ICV-1)

QC Batch: 51894

Date Analyzed: 2008-08-28

Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.112	112	85 - 115	2008-08-28
Toluene		mg/L	0.100	0.110	110	85 - 115	2008-08-28
Ethylbenzene		mg/L	0.100	0.110	110	85 - 115	2008-08-28
Xylene		mg/L	0.300	0.329	110	85 - 115	2008-08-28

Report Date: August 29, 2008
TNM LF 2000-07

Work Order: 8082127
Bob Durham

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Monument, Lea County, NM

Standard (CCV-1)

QC Batch: 51894

Date Analyzed: 2008-08-28

Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.108	108	85 - 115	2008-08-28
Toluene		mg/L	0.100	0.108	108	85 - 115	2008-08-28
Ethylbenzene		mg/L	0.100	0.107	107	85 - 115	2008-08-28
Xylene		mg/L	0.300	0.319	106	85 - 115	2008-08-28

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd, West, Suite 180
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Fax (817) 560-4336

LAB O 'D # 8082-12-7

Page 1 of 2

Company Name:

Address: (Street, City, zip)

Contact Person:

Invoice to:

(if different from above)

Project Location (including state):

Phone #:

Fax #:

E-mail:

Project Name:

Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

Turn Around Time if different from standard

Hold

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING	DATE	TIME
171384	MW-37	M		WATER				
385	MW-8	M		SOIL				
386	MW-28	M		AIR				
387	MW-3	M		SLUDGE				
388	MW-16	M		HCl				
389	MW-16	M		HNO ₃				
390	MW-38	M		H ₂ SO ₄				
391	MW-2	M		NaOH				
392	MW-13	M		ICE				
393	MW-1	M		NONE				

MTBE	8021B / 602 / 8260B / 624
TEX 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	

Relinquished by: Company: Date: Time: Temp °C:

Received by: Company: Date: Time: Temp °C:

Relinquished by: Company: Date: Time: Temp °C:

Received by: Company: Date: Time: Temp °C:

LAB USE ONLY

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.

ORIGINAL ONLY

Carrier # 507 m

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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LAB C ID #

808212-7

Page 2 of 2

Company Name:

NOVA

Address: (Street, City, Zip)

2057 Commerce

Contact Person:

BOB ROUSAVILE

Invoice to:

(if different from above)

Plains

Project #:

TJM-LE-2000-17

Project Location (including state):

NM

Phone #:

(432) 520-7720

Fax #:

(432) 520-7701

E-mail:

Project Name:

Bob Durham

Sampler Signature:

3/1

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
17394	MW 23	5		X				X					8/20	1345
395	MW 26													1315
396	MW 31													1400
397	MW 33													1445
398	MW 9													1520
399	MW 15													1600
400	MW 10													1630
401	MW 7													1715
402	MW 32													1745
				MTBE 8021B / 602 / 8				BTEx 8021B / 602 / 8						
				TPH 418.1 / TX1005										
				TPH 8015 GRO / DRO										
				PAH 8270C / 625										
				Total Metals Ag As Ba Cd Cr										
				TCLP Metals Ag As Ba										
				TCLP Volatiles										
				TCLP Semi Volatiles										
				TCLP Pesticides										
				RCI										
				GC/MS Vol. 8260B / 62										
				GC/MS Semi. Vol. 8270										
				PCB's 8082 / 608										
				Pesticides 8081A / 608										
				BOD, TSS, pH										
				Moisture Content										

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624
BTEX 8021B 602 / 8260B / 624
TPH 418.1 / TX1005 TX1005 Ext(C35) ~~delete~~
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

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

Temp °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

REMARKS:

All + ref - 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.

Carrier #

any m

TRACE ANALYSIS, INC.

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

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
LELAP-02003 LELAP-02002
Kansas E-10317

Analytical and Quality Control Report

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

Report Date: December 15, 2008

Work Order: 8112004



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
180014	MW 11	water	2008-11-18	10:00	2008-11-19
180015	MW 20	water	2008-11-18	10:20	2008-11-19
180016	MW 21	water	2008-11-18	10:40	2008-11-19
180017	MW 25	water	2008-11-18	11:00	2008-11-19
180018	MW 29	water	2008-11-18	11:20	2008-11-19
180019	MW 30	water	2008-11-18	11:40	2008-11-19
180020	MW 27	water	2008-11-18	12:00	2008-11-19
180021	MW 14	water	2008-11-18	12:20	2008-11-19
180022	MW 24	water	2008-11-18	12:40	2008-11-19
180023	MW 26	water	2008-11-18	13:00	2008-11-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
180024	MW 31	water	2008-11-18	13:20	2008-11-19
180025	MW 33	water	2008-11-18	13:40	2008-11-19
180026	MW 9	water	2008-11-18	14:00	2008-11-19
180027	MW 15	water	2008-11-18	14:20	2008-11-19
180028	MW 10	water	2008-11-18	14:40	2008-11-19
180029	MW 7	water	2008-11-18	15:00	2008-11-19
180030	MW 32	water	2008-11-18	15:20	2008-11-19
180031	MW 37	water	2008-11-18	15:40	2008-11-19
180032	MW 8	water	2008-11-18	16:00	2008-11-19
180033	MW 28	water	2008-11-18	16:20	2008-11-19
180034	MW 3	water	2008-11-18	16:40	2008-11-19
180035	MW 16	water	2008-11-18	17:00	2008-11-19
180036	MW 23	water	2008-11-18	17:20	2008-11-19
180037	MW 6	water	2008-11-18	17:40	2008-11-19
180038	MW 4	water	2008-11-18	18:00	2008-11-19
180039	MW 13	water	2008-11-18	18:20	2008-11-19
180040	MW 2	water	2008-11-18	18:40	2008-11-19
180041	MW 38	water	2008-11-18	19:00	2008-11-19
180042	MW 1	water	2008-11-18	19:20	2008-11-19
180043	MW 5	water	2008-11-18	19:40	2008-11-19
180044	MW 12	water	2008-11-18	20:00	2008-11-19

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2008-11-19 and assigned to work order 8112004. Samples for work order 8112004 were received intact without headspace and at a temperature of 4.0 deg. C.

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

Test	Method
BTEX	S 8021B
PAH	S 8270C
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 8112004 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.

Report Date: December 15, 2008
TNM-LF-2000-7

Work Order: 8112004
Bob Durham

Page Number: 4 of 63
West of Monument, NM

Analytical Report

Sample: 180014 - MW 11

Laboratory: Midland

Analysis: BTEX

QC Batch: 54505

Prep Batch: 46613

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-20

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0952	mg/L	1	0.100	95	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	52 - 124.1

Sample: 180014 - MW 11

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54678

Prep Batch: 46747

Analytical Method: S 8270C

Date Analyzed: 2008-12-01

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200

continued ...

Report Date: December 15, 2008
TNM-LF-2000-7

Work Order: 8112004
Bob Durham

Page Number: 5 of 63
West of Monument, NM

sample 180014 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0487	mg/L	0.922	0.0800	61	15.8 - 97.2
2-Fluorobiphenyl		0.0455	mg/L	0.922	0.0800	57	16 - 91.6
Terphenyl-d14		0.0783	mg/L	0.922	0.0800	98	55 - 117

Sample: 180015 - MW 20

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0970	mg/L	1	0.100	97	52 - 124.1

Sample: 180015 - MW 20

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200

continued ...

sample 180015 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		0.000259	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0776	mg/L	0.926	0.0800	97	15.8 - 97.2
2-Fluorobiphenyl		0.0701	mg/L	0.926	0.0800	88	16 - 91.6
Terphenyl-d14	¹	0.0941	mg/L	0.926	0.0800	118	55 - 117

Sample: 180016 - MW 21

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0946	mg/L	1	0.100	95	52 - 124.1

¹8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Sample: 180016 - MW 21

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0342	mg/L	0.922	0.0800	43	15.8 - 97.2
2-Fluorobiphenyl		0.0233	mg/L	0.922	0.0800	29	16 - 91.6
Terphenyl-d14		0.0636	mg/L	0.922	0.0800	80	55 - 117

Sample: 180017 - MW 25

Laboratory: Midland

Analysis: BTEX

QC Batch: 54505

Prep Batch: 46613

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-20

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100

continued ...

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sample 180017 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0985	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0945	mg/L	1	0.100	94	52 - 124.1

Sample: 180017 - MW 25

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000189	mg/L	0.943	0.000200
2-Methylnaphthalene		<0.000189	mg/L	0.943	0.000200
1-Methylnaphthalene		<0.000189	mg/L	0.943	0.000200
Acenaphthylene		<0.000189	mg/L	0.943	0.000200
Acenaphthene		<0.000189	mg/L	0.943	0.000200
Dibenzofuran		<0.000189	mg/L	0.943	0.000200
Fluorene		<0.000189	mg/L	0.943	0.000200
Anthracene		<0.000189	mg/L	0.943	0.000200
Phenanthrene		<0.000189	mg/L	0.943	0.000200
Fluoranthene		<0.000189	mg/L	0.943	0.000200
Pyrene		<0.000189	mg/L	0.943	0.000200
Benzo(a)anthracene		<0.000189	mg/L	0.943	0.000200
Chrysene		<0.000189	mg/L	0.943	0.000200
Benzo(b)fluoranthene		<0.000189	mg/L	0.943	0.000200
Benzo(k)fluoranthene		<0.000189	mg/L	0.943	0.000200
Benzo(a)pyrene		<0.000189	mg/L	0.943	0.000200
Indeno(1,2,3-cd)pyrene		<0.000189	mg/L	0.943	0.000200
Dibenzo(a,h)anthracene		<0.000189	mg/L	0.943	0.000200
Benzo(g,h,i)perylene		<0.000189	mg/L	0.943	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0302	mg/L	0.943	0.0800	38	15.8 - 97.2
2-Fluorobiphenyl		0.0274	mg/L	0.943	0.0800	34	16 - 91.6
Terphenyl-d14		0.0540	mg/L	0.943	0.0800	68	55 - 117

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Sample: 180018 - MW 29

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0958	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0928	mg/L	1	0.100	93	52 - 124.1

Sample: 180018 - MW 29

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 180018 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0427	mg/L	0.922	0.0800	53	15.8 - 97.2
2-Fluorobiphenyl		0.0376	mg/L	0.922	0.0800	47	16 - 91.6
Terphenyl-d14		0.0780	mg/L	0.922	0.0800	98	55 - 117

Sample: 180019 - MW 30

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0948	mg/L	1	0.100	95	52 - 124.1

Sample: 180019 - MW 30

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 180019 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0412	mg/L	0.922	0.0800	52	15.8 - 97.2
2-Fluorobiphenyl		0.0363	mg/L	0.922	0.0800	45	16 - 91.6
Terphenyl-d14		0.0798	mg/L	0.922	0.0800	100	55 - 117

Sample: 180020 - MW 27

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0975	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0943	mg/L	1	0.100	94	52 - 124.1

Sample: 180020 - MW 27

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0380	mg/L	0.926	0.0800	48	15.8 - 97.2
2-Fluorobiphenyl		0.0309	mg/L	0.926	0.0800	39	16 - 91.6
Terphenyl-d14		0.0745	mg/L	0.926	0.0800	93	55 - 117

Sample: 180021 - MW 14

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 180021 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0951	mg/L	1	0.100	95	52 - 124.1

Sample: 180021 - MW 14

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0364	mg/L	0.926	0.0800	46	15.8 - 97.2
2-Fluorobiphenyl		0.0324	mg/L	0.926	0.0800	40	16 - 91.6
Terphenyl-d14		0.0696	mg/L	0.926	0.0800	87	55 - 117

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Sample: 180022 - MW 24

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0935	mg/L	1	0.100	94	52 - 124.1

Sample: 180022 - MW 24

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 180022 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0404	mg/L	0.922	0.0800	50	15.8 - 97.2
2-Fluorobiphenyl		0.0374	mg/L	0.922	0.0800	47	16 - 91.6
Terphenyl-d14		0.0698	mg/L	0.922	0.0800	87	55 - 117

Sample: 180023 - MW 26

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0940	mg/L	1	0.100	94	52 - 124.1

Sample: 180023 - MW 26

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 180023 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0596	mg/L	0.917	0.0800	74	15.8 - 97.2
2-Fluorobiphenyl		0.0462	mg/L	0.917	0.0800	58	16 - 91.6
Terphenyl-d14		0.0746	mg/L	0.917	0.0800	93	55 - 117

Sample: 180024 - MW 31

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0956	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0925	mg/L	1	0.100	92	52 - 124.1

Sample: 180024 - MW 31

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0592	mg/L	0.922	0.0800	74	15.8 - 97.2
2-Fluorobiphenyl		0.0430	mg/L	0.922	0.0800	54	16 - 91.6
Terphenyl-d14		0.0813	mg/L	0.922	0.0800	102	55 - 117

Sample: 180025 - MW 33

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

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sample 180025 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0936	mg/L	1	0.100	94	52 - 124.1

Sample: 180025 - MW 33

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0557	mg/L	0.926	0.0800	70	15.8 - 97.2
2-Fluorobiphenyl		0.0442	mg/L	0.926	0.0800	55	16 - 91.6
Terphenyl-d14		0.0795	mg/L	0.926	0.0800	99	55 - 117

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Sample: 180026 - MW 9

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0937	mg/L	1	0.100	94	52 - 124.1

Sample: 180026 - MW 9

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

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sample 180026 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0637	mg/L	0.922	0.0800	80	15.8 - 97.2
2-Fluorobiphenyl		0.0515	mg/L	0.922	0.0800	64	16 - 91.6
Terphenyl-d14		0.0820	mg/L	0.922	0.0800	102	55 - 117

Sample: 180027 - MW 15

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0954	mg/L	1	0.100	95	52 - 124.1

Sample: 180027 - MW 15

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000186	mg/L	0.93	0.000200
2-Methylnaphthalene		<0.000186	mg/L	0.93	0.000200
1-Methylnaphthalene		<0.000186	mg/L	0.93	0.000200
Acenaphthylene		<0.000186	mg/L	0.93	0.000200
Acenaphthene		<0.000186	mg/L	0.93	0.000200

continued ...

sample 180027 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000186	mg/L	0.93	0.000200
Fluorene		<0.000186	mg/L	0.93	0.000200
Anthracene		<0.000186	mg/L	0.93	0.000200
Phenanthrene		<0.000186	mg/L	0.93	0.000200
Fluoranthene		<0.000186	mg/L	0.93	0.000200
Pyrene		<0.000186	mg/L	0.93	0.000200
Benzo(a)anthracene		<0.000186	mg/L	0.93	0.000200
Chrysene		<0.000186	mg/L	0.93	0.000200
Benzo(b)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(k)fluoranthene		<0.000186	mg/L	0.93	0.000200
Benzo(a)pyrene		<0.000186	mg/L	0.93	0.000200
Indeno(1,2,3-cd)pyrene		<0.000186	mg/L	0.93	0.000200
Dibenzo(a,h)anthracene		<0.000186	mg/L	0.93	0.000200
Benzo(g,h,i)perylene		<0.000186	mg/L	0.93	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0666	mg/L	0.93	0.0800	83	15.8 - 97.2
2-Fluorobiphenyl		0.0573	mg/L	0.93	0.0800	72	16 - 91.6
Terphenyl-d14		0.0829	mg/L	0.93	0.0800	104	55 - 117

Sample: 180028 - MW 10

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0934	mg/L	1	0.100	93	52 - 124.1

Sample: 180028 - MW 10

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Aceuaaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0523	mg/L	0.922	0.0800	65	15.8 - 97.2
2-Fluorobiphenyl		0.0485	mg/L	0.922	0.0800	61	16 - 91.6
Terphenyl-d14		0.0764	mg/L	0.922	0.0800	96	55 - 117

Sample: 180029 - MW 7

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 180029 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0977	mg/L	1	0.100	98	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0968	mg/L	1	0.100	97	52 - 124.1

Sample: 180029 - MW 7

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		0.00176	mg/L	0.917	0.000200
Fluorene		0.00372	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		0.000522	mg/L	0.917	0.000200
Fluoranthene		0.000278	mg/L	0.917	0.000200
Pyrene		0.000533	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	2	0.0783	mg/L	0.917	0.0800	98	15.8 - 97.2
2-Fluorobiphenyl		0.0540	mg/L	0.917	0.0800	68	16 - 91.6

continued ...

²8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Terphenyl-d14		0.0711	mg/L	0.917	0.0800	89	55 - 117

Sample: 180030 - MW 32

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00230	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0960	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0944	mg/L	1	0.100	94	52 - 124.1

Sample: 180030 - MW 32

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54853

Prep Batch: 46889

Analytical Method: S 8270C

Date Analyzed: 2008-12-04

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		0.00140	mg/L	0.926	0.000200
1-Methylnaphthalene		0.0103	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		0.00266	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		0.00170	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200

continued ...

sample 180030 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	³	0.0815	mg/L	0.926	0.0800	102	15.8 - 97.2
2-Fluorobiphenyl		0.0548	mg/L	0.926	0.0800	68	16 - 91.6
Terphenyl-d14		0.0737	mg/L	0.926	0.0800	92	55 - 117

Sample: 180031 - MW 37

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0955	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0937	mg/L	1	0.100	94	52 - 124.1

Sample: 180031 - MW 37

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

³8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0546	mg/L	0.926	0.0800	68	15.8 - 97.2
2-Fluorobiphenyl		0.0493	mg/L	0.926	0.0800	62	16 - 91.6
Terphenyl-d14		0.0772	mg/L	0.926	0.0800	96	55 - 117

Sample: 180032 - MW 8

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0986	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0957	mg/L	1	0.100	96	52 - 124.1

Sample: 180032 - MW 8

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.000200	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00123	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.000228	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		0.000341	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		0.00116	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0760	mg/L	0.922	0.0800	95	15.8 - 97.2
2-Fluorobiphenyl		0.0532	mg/L	0.922	0.0800	66	16 - 91.6
Terphenyl-d14		0.0766	mg/L	0.922	0.0800	96	55 - 117

Sample: 180033 - MW 28

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 180033 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0959	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0917	mg/L	1	0.100	92	52 - 124.1

Sample: 180033 - MW 28

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0484	mg/L	0.922	0.0800	60	15.8 - 97.2
2-Fluorobiphenyl		0.0424	mg/L	0.922	0.0800	53	16 - 91.6
Terphenyl-d14		0.0806	mg/L	0.922	0.0800	101	55 - 117

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Sample: 180034 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0944	mg/L	1	0.100	94	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0912	mg/L	1	0.100	91	52 - 124.1

Sample: 180034 - MW 3

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54853
Prep Batch: 46889

Analytical Method: S 8270C
Date Analyzed: 2008-12-04
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000187	mg/L	0.935	0.000200
2-Methylnaphthalene		<0.000187	mg/L	0.935	0.000200
1-Methylnaphthalene		<0.000187	mg/L	0.935	0.000200
Acenaphthylene		<0.000187	mg/L	0.935	0.000200
Acenaphthene		<0.000187	mg/L	0.935	0.000200
Dibenzofuran		0.000242	mg/L	0.935	0.000200
Fluorene		0.000342	mg/L	0.935	0.000200
Anthracene		<0.000187	mg/L	0.935	0.000200
Phenanthrene		<0.000187	mg/L	0.935	0.000200
Fluoranthene		<0.000187	mg/L	0.935	0.000200
Pyrene		<0.000187	mg/L	0.935	0.000200
Benzo(a)anthracene		<0.000187	mg/L	0.935	0.000200
Chrysene		<0.000187	mg/L	0.935	0.000200
Benzo(b)fluoranthene		<0.000187	mg/L	0.935	0.000200
Benzo(k)fluoranthene		<0.000187	mg/L	0.935	0.000200
Benzo(a)pyrene		<0.000187	mg/L	0.935	0.000200
Indeno(1,2,3-cd)pyrene		<0.000187	mg/L	0.935	0.000200
Dibenzo(a,h)anthracene		<0.000187	mg/L	0.935	0.000200

continued . . .

sample 180034 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000187	mg/L	0.935	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0624	mg/L	0.935	0.0800	78	15.8 - 97.2
2-Fluorobiphenyl		0.0569	mg/L	0.935	0.0800	71	16 - 91.6
Terphenyl-d14		0.0752	mg/L	0.935	0.0800	94	55 - 117

Sample: 180035 - MW 16

Laboratory: Midland

Analysis: BTEX

QC Batch: 54540

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00160	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	52 - 124.1

Sample: 180035 - MW 16

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00172	mg/L	0.917	0.000200
2-Methylnaphthalene		0.00112	mg/L	0.917	0.000200
1-Methylnaphthalene		0.00735	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		0.000440	mg/L	0.917	0.000200

continued ...

sample 180035 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		0.00295	mg/L	0.917	0.000200
Fluorene		0.00460	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		0.00132	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		0.000463	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		0.000711	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0721	mg/L	0.917	0.0800	90	15.8 - 97.2
2-Fluorobiphenyl		0.0540	mg/L	0.917	0.0800	68	16 - 91.6
Terphenyl-d14		0.0798	mg/L	0.917	0.0800	100	55 - 117

Sample: 180036 - MW 23

Laboratory: Midland
Analysis: BTEX
QC Batch: 54540
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0962	mg/L	1	0.100	96	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0949	mg/L	1	0.100	95	52 - 124.1

Sample: 180036 - MW 23

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00106	mg/L	0.922	0.000200
Fluorene		0.000503	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0688	mg/L	0.922	0.0800	86	15.8 - 97.2
2-Fluorobiphenyl		0.0599	mg/L	0.922	0.0800	75	16 - 91.6
Terphenyl-d14		0.0838	mg/L	0.922	0.0800	105	55 - 117

Sample: 180037 - MW 6

Laboratory: Midland

Analysis: BTEX

QC Batch: 54541

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-22

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00470	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 180037 continued . . .

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		0.00470	mg/L	1	0.00100
Xylene		0.00850	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	52 - 124.1

Sample: 180037 - MW 6

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000926	mg/L	4.63	0.000200
2-Methylnaphthalene		0.00103	mg/L	4.63	0.000200
1-Methylnaphthalene		0.00344	mg/L	4.63	0.000200
Acenaphthylene		<0.000926	mg/L	4.63	0.000200
Acenaphthene		<0.000926	mg/L	4.63	0.000200
Dibenzofuran		<0.000926	mg/L	4.63	0.000200
Fluorene		<0.000926	mg/L	4.63	0.000200
Anthracene		<0.000926	mg/L	4.63	0.000200
Phenanthrene		<0.000926	mg/L	4.63	0.000200
Fluoranthene		<0.000926	mg/L	4.63	0.000200
Pyrene		<0.000926	mg/L	4.63	0.000200
Benzo(a)anthracene		<0.000926	mg/L	4.63	0.000200
Chrysene		<0.000926	mg/L	4.63	0.000200
Benzo(b)fluoranthene		<0.000926	mg/L	4.63	0.000200
Benzo(k)fluoranthene		<0.000926	mg/L	4.63	0.000200
Benzo(a)pyrene		<0.000926	mg/L	4.63	0.000200
Indeno(1,2,3-cd)pyrene		<0.000926	mg/L	4.63	0.000200
Dibenzo(a,h)anthracene		<0.000926	mg/L	4.63	0.000200
Benzo(g,h,i)perylene		<0.000926	mg/L	4.63	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0771	mg/L	4.63	0.0800	96	15.8 - 97.2
2-Fluorobiphenyl		0.0651	mg/L	4.63	0.0800	81	16 - 91.6
Terphenyl-d14		0.0835	mg/L	4.63	0.0800	104	55 - 117

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Sample: 180038 - MW 4

Laboratory: Midland

Analysis: BTEX

QC Batch: 54541

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-22

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00160	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00340	mg/L	1	0.00100
Xylene		0.00210	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0996	mg/L	1	0.100	100	52 - 124.1

Sample: 180038 - MW 4

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00101	mg/L	0.922	0.000200
2-Methylnaphthalene		0.000821	mg/L	0.922	0.000200
1-Methylnaphthalene		0.00227	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00160	mg/L	0.922	0.000200
Fluorene		0.00258	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.000606	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		0.000202	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		0.000466	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

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sample 180038 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0659	mg/L	0.922	0.0800	82	15.8 - 97.2
2-Fluorobiphenyl		0.0534	mg/L	0.922	0.0800	67	16 - 91.6
Terphenyl-d14		0.0788	mg/L	0.922	0.0800	98	55 - 117

Sample: 180039 - MW 13

Laboratory: Midland

Analysis: BTEX

QC Batch: 54541

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-22

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0110	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00150	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.118	mg/L	1	0.100	118	52 - 124.1

Sample: 180039 - MW 13

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00435	mg/L	0.926	0.000200
2-Methylnaphthalene		0.00275	mg/L	0.926	0.000200
1-Methylnaphthalene		0.00450	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200

continued ...

sample 180039 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		0.00133	mg/L	0.926	0.000200
Fluorene		0.00130	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		0.000397	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0536	mg/L	0.926	0.0800	67	15.8 - 97.2
2-Fluorobiphenyl		0.0468	mg/L	0.926	0.0800	58	16 - 91.6
Terphenyl-d14		0.0815	mg/L	0.926	0.0800	102	55 - 117

Sample: 180040 - MW 2

Laboratory: Midland
Analysis: BTEX
QC Batch: 54541
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-22
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0119	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	52 - 124.1

Sample: 180040 - MW 2

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00345	mg/L	4.63	0.000200
2-Methylnaphthalene		0.00205	mg/L	4.63	0.000200
1-Methylnaphthalene		0.00608	mg/L	4.63	0.000200
Acenaphthylene		<0.000926	mg/L	4.63	0.000200
Acenaphthene		<0.000926	mg/L	4.63	0.000200
Dibenzofuran		0.00167	mg/L	4.63	0.000200
Fluorene		0.00314	mg/L	4.63	0.000200
Anthracene		<0.000926	mg/L	4.63	0.000200
Phenanthrene		0.00148	mg/L	4.63	0.000200
Fluoranthene		<0.000926	mg/L	4.63	0.000200
Pyrene		<0.000926	mg/L	4.63	0.000200
Benzo(a)anthracene		<0.000926	mg/L	4.63	0.000200
Chrysene		<0.000926	mg/L	4.63	0.000200
Benzo(b)fluoranthene		<0.000926	mg/L	4.63	0.000200
Benzo(k)fluoranthene		<0.000926	mg/L	4.63	0.000200
Benzo(a)pyrene		<0.000926	mg/L	4.63	0.000200
Indeno(1,2,3-cd)pyrene		<0.000926	mg/L	4.63	0.000200
Dibenzo(a,h)anthracene		<0.000926	mg/L	4.63	0.000200
Benzo(g,h,i)perylene		<0.000926	mg/L	4.63	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0301	mg/L	4.63	0.0800	38	15.8 - 97.2
2-Fluorobiphenyl		0.0305	mg/L	4.63	0.0800	38	16 - 91.6
Terphenyl-d14	4	0.0414	mg/L	4.63	0.0800	52	55 - 117

Sample: 180041 - MW 38

Laboratory: Midland

Analysis: BTEX

QC Batch: 54541

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-22

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0265	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0860	mg/L	1	0.00100

⁴8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show excellent recovery. ~~continued~~ performed properly.

sample 180041 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		0.00350	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0994	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	52 - 124.1

Sample: 180041 - MW 38

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00344	mg/L	4.608	0.000200
2-Methylnaphthalene		0.00114	mg/L	4.608	0.000200
1-Methylnaphthalene		0.0117	mg/L	4.608	0.000200
Acenaphthylene		<0.000922	mg/L	4.608	0.000200
Acenaphthene		<0.000922	mg/L	4.608	0.000200
Dibenzofuran		0.00472	mg/L	4.608	0.000200
Fluorene		0.00551	mg/L	4.608	0.000200
Anthracene		<0.000922	mg/L	4.608	0.000200
Phenanthrene		0.00502	mg/L	4.608	0.000200
Fluoranthene		<0.000922	mg/L	4.608	0.000200
Pyrene		<0.000922	mg/L	4.608	0.000200
Benzo(a)anthracene		<0.000922	mg/L	4.608	0.000200
Chrysene		0.00247	mg/L	4.608	0.000200
Benzo(b)fluoranthene		<0.000922	mg/L	4.608	0.000200
Benzo(k)fluoranthene		<0.000922	mg/L	4.608	0.000200
Benzo(a)pyrene		<0.000922	mg/L	4.608	0.000200
Indeno(1,2,3-cd)pyrene		<0.000922	mg/L	4.608	0.000200
Dibenzo(a,h)anthracene		<0.000922	mg/L	4.608	0.000200
Benzo(g,h,i)perylene		<0.000922	mg/L	4.608	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	⁵	0.0863	mg/L	4.608	0.0800	108	15.8 - 97.2
2-Fluorobiphenyl		0.0669	mg/L	4.608	0.0800	84	16 - 91.6
Terphenyl-d14		0.0882	mg/L	4.608	0.0800	110	55 - 117

⁵8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

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Sample: 180042 - MW 1

Laboratory: Midland
Analysis: BTEX
QC Batch: 54541
Prep Batch: 46650

Analytical Method: S 8021B
Date Analyzed: 2008-11-22
Sample Preparation: 2008-11-21

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		0.0457	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0145	mg/L	1	0.00100
Xylene		0.0269	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.119	mg/L	1	0.100	119	52 - 124.1

Sample: 180042 - MW 1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54852
Prep Batch: 46890

Analytical Method: S 8270C
Date Analyzed: 2008-12-05
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Naphthalene		0.0382	mg/L	4.608	0.000200
2-Methylnaphthalene		0.0855	mg/L	4.608	0.000200
1-Methylnaphthalene		0.0912	mg/L	4.608	0.000200
Acenaphthylene		<0.000922	mg/L	4.608	0.000200
Acenaphthene		<0.000922	mg/L	4.608	0.000200
Dibenzofuran		0.00764	mg/L	4.608	0.000200
Fluorene		0.0154	mg/L	4.608	0.000200
Anthracene		<0.000922	mg/L	4.608	0.000200
Phenanthrene		0.0145	mg/L	4.608	0.000200
Fluoranthene		<0.000922	mg/L	4.608	0.000200
Pyrene		<0.000922	mg/L	4.608	0.000200
Benzo(a)anthracene		<0.000922	mg/L	4.608	0.000200
Chrysene		<0.000922	mg/L	4.608	0.000200
Benzo(b)fluoranthene		<0.000922	mg/L	4.608	0.000200
Benzo(k)fluoranthene		<0.000922	mg/L	4.608	0.000200
Benzo(a)pyrene		<0.000922	mg/L	4.608	0.000200
Indeno(1,2,3-cd)pyrene		<0.000922	mg/L	4.608	0.000200
Dibenzo(a,h)anthracene		<0.000922	mg/L	4.608	0.000200
Benzo(g,h,i)perylene		<0.000922	mg/L	4.608	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	6	0.0889	mg/L	4.608	0.0800	111	15.8 - 97.2
2-Fluorobiphenyl		0.0608	mg/L	4.608	0.0800	76	16 - 91.6
Terphenyl-d14		0.0826	mg/L	4.608	0.0800	103	55 - 117

Sample: 180043 - MW 5

Laboratory: Midland

Analysis: BTEX

QC Batch: 54541

Prep Batch: 46650

Analytical Method: S 8021B

Date Analyzed: 2008-11-22

Sample Preparation: 2008-11-21

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.114	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0536	mg/L	1	0.00100
Xylene		0.0304	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.117	mg/L	1	0.100	117	52 - 124.1

Sample: 180043 - MW 5

Laboratory: Lubbock

Analysis: PAH

QC Batch: 54852

Prep Batch: 46890

Analytical Method: S 8270C

Date Analyzed: 2008-12-05

Sample Preparation: 2008-11-20

Prep Method: S 3510C

Analyzed By: DS

Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0295	mg/L	0.922	0.000200
2-Methylnaphthalene		0.0504	mg/L	0.922	0.000200
1-Methylnaphthalene		0.0560	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00288	mg/L	0.922	0.000200
Fluorene		0.00720	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.00558	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		0.000494	mg/L	0.922	0.000200

⁶8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

sample 180043 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		0.00114	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5	7	0.0800	mg/L	0.922	0.0800	100	15.8 - 97.2
2-Fluorobiphenyl		0.0531	mg/L	0.922	0.0800	66	16 - 91.6
Terphenyl-d14		0.0778	mg/L	0.922	0.0800	97	55 - 117

Sample: 180044 - MW 12

Laboratory: Midland
Analysis: BTEX
QC Batch: 54505
Prep Batch: 46613

Analytical Method: S 8021B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0281	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		0.0672	mg/L	10	0.00100
Xylene		0.144	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.992	mg/L	10	1.00	99	65.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.993	mg/L	10	1.00	99	52 - 124.1

Sample: 180044 - MW 12

Laboratory: Lubbock
Analysis: PAH
QC Batch: 54852
Prep Batch: 46890

Analytical Method: S 8270C
Date Analyzed: 2008-12-05
Sample Preparation: 2008-11-20

Prep Method: S 3510C
Analyzed By: DS
Prepared By: DS

⁷8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0196	mg/L	0.922	0.000200
2-Methylnaphthalene		0.0305	mg/L	0.922	0.000200
1-Methylnaphthalene		0.0414	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00416	mg/L	0.922	0.000200
Fluorene		0.00533	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.00545	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		0.000774	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0655	mg/L	0.922	0.0800	82	15.8 - 97.2
2-Fluorobiphenyl		0.0470	mg/L	0.922	0.0800	59	16 - 91.6
Terphenyl-d14		0.0783	mg/L	0.922	0.0800	98	55 - 117

Sample: 180044 - MW 12

Laboratory: Midland

Analysis: TPH DRO

QC Batch: 54524

Prep Batch: 46618

Analytical Method: Mod. 8015B

Date Analyzed: 2008-11-21

Sample Preparation: 2008-11-21

Prep Method: N/A

Analyzed By: LD

Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		265	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	⁸	30.4	mg/L	1	10.0	304	70 - 130

⁸High surrogate recovery due to peak interference.

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Sample: 180044 - MW 12

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 54506
Prep Batch: 46613

Analytical Method: S 8015B
Date Analyzed: 2008-11-21
Sample Preparation: 2008-11-20

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.60	mg/L	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.942	mg/L	10	1.00	94	70 - 130
4-Bromofluorobenzene (4-BFB)		0.990	mg/L	10	1.00	99	70 - 130

Method Blank (1) QC Batch: 54505

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0909	mg/L	1	0.100	91	37.1 - 130.9

Method Blank (1) QC Batch: 54506

QC Batch: 54506
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		0.0841	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0891	mg/L	1	0.100	89	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.0842	mg/L	1	0.100	84	50 - 130

Method Blank (1) QC Batch: 54524

QC Batch: 54524 Date Analyzed: 2008-11-21 Analyzed By: LD
Prep Batch: 46618 QC Preparation: 2008-11-21 Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<2.44	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		11.5	mg/L	1	10.0	115	70 - 130

Method Blank (1) QC Batch: 54540

QC Batch: 54540 Date Analyzed: 2008-11-21 Analyzed By: AG
Prep Batch: 46650 QC Preparation: 2008-11-21 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000800	mg/L	0.001
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0938	mg/L	1	0.100	94	37.1 - 130.9

Method Blank (1) QC Batch: 54541

QC Batch: 54541 Date Analyzed: 2008-11-22 Analyzed By: AG
Prep Batch: 46650 QC Preparation: 2008-11-21 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Beuzene		<0.000800	mg/L	0.001

continued ...

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Parameter	Flag	MDL Result	Units	RL
Toluene		<0.000800	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	44.6 - 137.4
4-Bromofluorobenzene (4-BFB)		0.0972	mg/L	1	0.100	97	37.1 - 130.9

Method Blank (1) QC Batch: 54678

QC Batch: 54678
Prep Batch: 46747

Date Analyzed: 2008-12-01
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0316	mg/L	1	0.0800	40	15.8 - 97.2
2-Fluorobiphenyl		0.0244	mg/L	1	0.0800	30	16 - 91.6
Terphenyl-d14		0.0521	mg/L	1	0.0800	65	55 - 117

Method Blank (1) QC Batch: 54852

QC Batch: 54852
Prep Batch: 46890

Date Analyzed: 2008-12-05
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0440	mg/L	1	0.0800	55	15.8 - 97.2
2-Fluorobiphenyl		0.0391	mg/L	1	0.0800	49	16 - 91.6
Terphenyl-d14		0.0831	mg/L	1	0.0800	104	55 - 117

Method Blank (1) QC Batch: 54853

QC Batch: 54853
Prep Batch: 46889

Date Analyzed: 2008-12-04
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000730	mg/L	0.0002
2-Methylnaphthalene		<0.0000509	mg/L	0.0002
1-Methylnaphthalene		<0.0000748	mg/L	0.0002
Acenaphthylene		<0.0000767	mg/L	0.0002
Acenaphthene		<0.000142	mg/L	0.0002
Dibenzofuran		<0.0000470	mg/L	0.0002

continued ...

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
Fluorene		<0.0000569	mg/L	0.0002
Anthracene		<0.0000876	mg/L	0.0002
Phenanthrene		<0.0000552	mg/L	0.0002
Fluoranthene		<0.0000954	mg/L	0.0002
Pyrene		<0.0000497	mg/L	0.0002
Benzo(a)anthracene		<0.0000328	mg/L	0.0002
Chrysene		<0.0000990	mg/L	0.0002
Benzo(b)fluoranthene		<0.0000684	mg/L	0.0002
Benzo(k)fluoranthene		<0.0000830	mg/L	0.0002
Benzo(a)pyrene		<0.0000549	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000869	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000605	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000681	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0409	mg/L	1	0.0800	51	15.8 - 97.2
2-Fluorobiphenyl		0.0355	mg/L	1	0.0800	44	16 - 91.6
Terphenyl-d14		0.0868	mg/L	1	0.0800	108	55 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0939	mg/L	1	0.100	<0.000800	94	71.7 - 120.5
Toluene	0.0929	mg/L	1	0.100	<0.000800	93	75.4 - 118.8
Ethylbenzene	0.0913	mg/L	1	0.100	<0.000500	91	73.5 - 118
Xylene	0.274	mg/L	1	0.300	<0.000900	91	72.9 - 118.2

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	0.0944	mg/L	1	0.100	<0.000800	94	71.7 - 120.5	0	20
Toluene	0.0930	mg/L	1	0.100	<0.000800	93	75.4 - 118.8	0	20
Ethylbenzene	0.0921	mg/L	1	0.100	<0.000500	92	73.5 - 118	1	20
Xylene	0.278	mg/L	1	0.300	<0.000900	93	72.9 - 118.2	1	20

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

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0963	0.0947	mg/L	1	0.100	96	95	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0960	0.0953	mg/L	1	0.100	96	95	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54506
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.825	mg/L	1	1.00	<0.0590	82	70 - 130

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	0.885	mg/L	1	1.00	<0.0590	88	70 - 130	7	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)	0.0888	0.0925	mg/L	1	0.100	89	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0890	0.0924	mg/L	1	0.100	89	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 54524
Prep Batch: 46618

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-21

Analyzed By: LD
Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	26.3	mg/L	1	25.0	<2.44	105	70 - 130

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	24.7	mg/L	1	25.0	<2.44	99	70 - 130	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	10.5	10.4	mg/L	1	10.0	105	104	70 - 130

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Laboratory Control Spike (LCS-1)

QC Batch: 54540
Prep Batch: 46650

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-21

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0978	mg/L	1	0.100	<0.000800	98	71.7 - 120.5
Toluene	0.0964	mg/L	1	0.100	<0.000800	96	75.4 - 118.8
Ethylbenzene	0.0948	mg/L	1	0.100	<0.000500	95	73.5 - 118
Xylene	0.285	mg/L	1	0.300	<0.000900	95	72.9 - 118.2

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	0.0991	mg/L	1	0.100	<0.000800	99	71.7 - 120.5	1	20
Toluene	0.0982	mg/L	1	0.100	<0.000800	98	75.4 - 118.8	2	20
Ethylbenzene	0.0970	mg/L	1	0.100	<0.000500	97	73.5 - 118	2	20
Xylene	0.292	mg/L	1	0.300	<0.000900	97	72.9 - 118.2	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)	0.0984	0.0978	mg/L	1	0.100	98	98	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.0973	0.0974	mg/L	1	0.100	97	97	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54541
Prep Batch: 46650

Date Analyzed: 2008-11-22
QC Preparation: 2008-11-21

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000800	102	71.7 - 120.5
Toluene	0.0997	mg/L	1	0.100	<0.000800	100	75.4 - 118.8
Ethylbenzene	0.0980	mg/L	1	0.100	<0.000500	98	73.5 - 118
Xylene	0.295	mg/L	1	0.300	<0.000900	98	72.9 - 118.2

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	0.0994	mg/L	1	0.100	<0.000800	99	71.7 - 120.5	3	20
Toluene	0.0972	mg/L	1	0.100	<0.000800	97	75.4 - 118.8	2	20
Ethylbenzene	0.0963	mg/L	1	0.100	<0.000500	96	73.5 - 118	2	20
Xylene	0.290	mg/L	1	0.300	<0.000900	97	72.9 - 118.2	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)	0.101	0.0982	mg/L	1	0.100	101	98	38.2 - 131.6
4-Bromofluorobenzene (4-BFB)	0.100	0.0987	mg/L	1	0.100	100	99	43.9 - 132.4

Laboratory Control Spike (LCS-1)

QC Batch: 54678
Prep Batch: 46747

Date Analyzed: 2008-12-01
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0267	mg/L	1	0.0800	<0.0000730	33	20.4 - 86.5
2-Methylnaphthalene	0.0301	mg/L	1	0.0800	<0.0000509	38	18.2 - 94.2
1-Methylnaphthalene	0.0303	mg/L	1	0.0800	<0.0000748	38	25.4 - 91.1
Acenaphthylene	0.0351	mg/L	1	0.0800	<0.0000767	44	32.4 - 109
Acenaphthene	0.0341	mg/L	1	0.0800	<0.000142	43	30.4 - 104
Dibenzofuran	0.0349	mg/L	1	0.0800	<0.0000470	44	14.8 - 119
Fluorene	0.0406	mg/L	1	0.0800	<0.0000569	51	26.5 - 124
Anthracene	0.0404	mg/L	1	0.0800	<0.0000876	50	44.2 - 113
Phenanthrene	0.0403	mg/L	1	0.0800	<0.0000552	50	44.7 - 109
Fluoranthene	0.0470	mg/L	1	0.0800	<0.0000954	59	48.2 - 125
Pyrene	0.0474	mg/L	1	0.0800	<0.0000497	59	40.5 - 128
Benzo(a)anthracene	0.0443	mg/L	1	0.0800	<0.0000328	55	45 - 115
Chrysene	0.0466	mg/L	1	0.0800	<0.0000990	58	46.8 - 119
Benzo(b)fluoranthene	0.0427	mg/L	1	0.0800	<0.0000684	53	39.9 - 129
Benzo(k)fluoranthene	0.0480	mg/L	1	0.0800	<0.0000830	60	42.6 - 136
Benzo(a)pyrene	0.0499	mg/L	1	0.0800	<0.0000549	62	45 - 143
Indeno(1,2,3-cd)pyrene	0.0607	mg/L	1	0.0800	<0.0000869	76	51.1 - 156
Dibenzo(a,h)anthracene	0.0600	mg/L	1	0.0800	<0.0000605	75	48.2 - 151
Benzo(g,h,i)perylene	0.0594	mg/L	1	0.0800	<0.0000681	74	48.3 - 152

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
Naphthalene	0.0269	mg/L	1	0.0800	<0.0000730	34	20.4 - 86.5	1	20
2-Methylnaphthalene	0.0298	mg/L	1	0.0800	<0.0000509	37	18.2 - 94.2	1	20
1-Methylnaphthalene	0.0302	mg/L	1	0.0800	<0.0000748	38	25.4 - 91.1	0	20
Acenaphthylene	0.0349	mg/L	1	0.0800	<0.0000767	44	32.4 - 109	1	20
Acenaphthene	0.0342	mg/L	1	0.0800	<0.000142	43	30.4 - 104	0	20
Dibenzofuran	0.0356	mg/L	1	0.0800	<0.0000470	44	14.8 - 119	2	20
Fluorene	0.0418	mg/L	1	0.0800	<0.0000569	52	26.5 - 124	3	20
Anthracene	0.0401	mg/L	1	0.0800	<0.0000876	50	44.2 - 113	1	20
Phenanthrene	0.0395	mg/L	1	0.0800	<0.0000552	49	44.7 - 109	2	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoranthene	0.0460	mg/L	1	0.0800	<0.0000954	58	48.2 - 125	2	20
Pyrene	0.0475	mg/L	1	0.0800	<0.0000497	59	40.5 - 128	0	20
Benzo(a)anthracene	0.0444	mg/L	1	0.0800	<0.0000328	56	45 - 115	0	20
Chrysene	0.0465	mg/L	1	0.0800	<0.0000990	58	46.8 - 119	0	20
Benzo(b)fluoranthene	0.0425	mg/L	1	0.0800	<0.0000684	53	39.9 - 129	0	20
Benzo(k)fluoranthene	0.0478	mg/L	1	0.0800	<0.0000830	60	42.6 - 136	0	20
Benzo(a)pyrene	0.0495	mg/L	1	0.0800	<0.0000549	62	45 - 143	1	20
Indeno(1,2,3-cd)pyrene	0.0595	mg/L	1	0.0800	<0.0000869	74	51.1 - 156	2	20
Dibenzo(a,h)anthracene	0.0590	mg/L	1	0.0800	<0.0000605	74	48.2 - 151	2	20
Benzo(g,h,i)perylene	0.0592	mg/L	1	0.0800	<0.0000681	74	48.3 - 152	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
Nitrobenzene-d5	0.0368	0.0370	mg/L	1	0.0800	46	46	15.8 - 97.2
2-Fluorobiphenyl	0.0332	0.0324	mg/L	1	0.0800	42	40	16 - 91.6
Terphenyl-d14	0.0596	0.0585	mg/L	1	0.0800	74	73	55 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 54852
Prep Batch: 46890

Date Analyzed: 2008-12-05
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0406	mg/L	1	0.0800	<0.0000730	51	20.4 - 86.5
2-Methylnaphthalene	0.0431	mg/L	1	0.0800	<0.0000509	54	18.2 - 94.2
1-Methylnaphthalene	0.0426	mg/L	1	0.0800	<0.0000748	53	25.4 - 91.1
Acenaphthylene	0.0511	mg/L	1	0.0800	<0.0000767	64	32.4 - 109
Acenaphthene	0.0492	mg/L	1	0.0800	<0.000142	62	30.4 - 104
Dibenzofuran	0.0524	mg/L	1	0.0800	<0.0000470	66	14.8 - 119
Fluorene	0.0613	mg/L	1	0.0800	<0.0000569	77	26.5 - 124
Anthracene	0.0600	mg/L	1	0.0800	<0.0000876	75	44.2 - 113
Phenanthrene	0.0589	mg/L	1	0.0800	<0.0000552	74	44.7 - 109
Fluoranthene	0.0720	mg/L	1	0.0800	<0.0000954	90	48.2 - 125
Pyrene	0.0675	mg/L	1	0.0800	<0.0000497	84	40.5 - 128
Benzo(a)anthracene	0.0668	mg/L	1	0.0800	<0.0000328	84	45 - 115
Chrysene	0.0698	mg/L	1	0.0800	<0.0000990	87	46.8 - 119
Benzo(b)fluoranthene	0.0722	mg/L	1	0.0800	<0.0000684	90	39.9 - 129
Benzo(k)fluoranthene	0.0760	mg/L	1	0.0800	<0.0000830	95	42.6 - 136
Benzo(a)pyrene	0.0805	mg/L	1	0.0800	<0.0000549	101	45 - 143
Indeno(1,2,3-cd)pyrene	0.0976	mg/L	1	0.0800	<0.0000869	122	51.1 - 156
Dibenzo(a,h)anthracene	0.0975	mg/L	1	0.0800	<0.0000605	122	48.2 - 151

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzo(g,h,i)perylene	0.0961	mg/L	1	0.0800	<0.0000681	120	48.3 - 152

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0400	mg/L	1	0.0800	<0.0000730	50	20.4 - 86.5	2	20
2-Methylnaphthalene	0.0419	mg/L	1	0.0800	<0.0000509	52	18.2 - 94.2	3	20
1-Methylnaphthalene	0.0414	mg/L	1	0.0800	<0.0000748	52	25.4 - 91.1	3	20
Acenaphthylene	0.0505	mg/L	1	0.0800	<0.0000767	63	32.4 - 109	1	20
Acenaphthene	0.0490	mg/L	1	0.0800	<0.000142	61	30.4 - 104	0	20
Dibenzofuran	0.0529	mg/L	1	0.0800	<0.0000470	66	14.8 - 119	1	20
Fluorene	0.0614	mg/L	1	0.0800	<0.0000569	77	26.5 - 124	0	20
Anthracene	0.0603	mg/L	1	0.0800	<0.0000876	75	44.2 - 113	0	20
Phenanthrene	0.0589	mg/L	1	0.0800	<0.0000552	74	44.7 - 109	0	20
Fluoranthene	0.0726	mg/L	1	0.0800	<0.0000954	91	48.2 - 125	1	20
Pyrene	0.0684	mg/L	1	0.0800	<0.0000497	86	40.5 - 128	1	20
Benzo(a)anthracene	0.0668	mg/L	1	0.0800	<0.0000328	84	45 - 115	0	20
Chrysene	0.0695	mg/L	1	0.0800	<0.0000990	87	46.8 - 119	0	20
Benzo(b)fluoranthene	0.0731	mg/L	1	0.0800	<0.0000684	91	39.9 - 129	1	20
Benzo(k)fluoranthene	0.0764	mg/L	1	0.0800	<0.0000830	96	42.6 - 136	0	20
Benzo(a)pyrene	0.0808	mg/L	1	0.0800	<0.0000549	101	45 - 143	0	20
Indeno(1,2,3-cd)pyrene	0.0977	mg/L	1	0.0800	<0.0000869	122	51.1 - 156	0	20
Dibenzo(a,h)anthracene	0.0975	mg/L	1	0.0800	<0.0000605	122	48.2 - 151	0	20
Benzo(g,h,i)perylene	0.0963	mg/L	1	0.0800	<0.0000681	120	48.3 - 152	0	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0555	0.0559	mg/L	1	0.0800	69	70	15.8 - 97.2
2-Fluorobiphenyl	0.0494	0.0495	mg/L	1	0.0800	62	62	16 - 91.6
Terphenyl-d14	0.0848	0.0858	mg/L	1	0.0800	106	107	55 - 117

Laboratory Control Spike (LCS-1)

QC Batch: 54853
Prep Batch: 46889

Date Analyzed: 2008-12-04
QC Preparation: 2008-11-20

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0418	mg/L	1	0.0800	<0.0000730	52	20.4 - 86.5
2-Methylnaphthalene	0.0429	mg/L	1	0.0800	<0.0000509	54	18.2 - 94.2
1-Methylnaphthalene	0.0424	mg/L	1	0.0800	<0.0000748	53	25.4 - 91.1

continued ...

control spikes continued . . .

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Acenaphthylene	0.0533	mg/L	1	0.0800	<0.0000767	67	32.4 - 109
Acenaphthene	0.0518	mg/L	1	0.0800	<0.000142	65	30.4 - 104
Dibenzofuran	0.0549	mg/L	1	0.0800	<0.0000470	69	14.8 - 119
Fluorene	0.0700	mg/L	1	0.0800	<0.0000569	88	26.5 - 124
Anthracene	0.0696	mg/L	1	0.0800	<0.0000876	87	44.2 - 113
Phenanthrene	0.0694	mg/L	1	0.0800	<0.0000552	87	44.7 - 109
Fluoranthene	0.0818	mg/L	1	0.0800	<0.0000954	102	48.2 - 125
Pyrene	0.0805	mg/L	1	0.0800	<0.0000497	101	40.5 - 128
Benzo(a)anthracene	0.0761	mg/L	1	0.0800	<0.0000328	95	45 - 115
Chrysene	0.0795	mg/L	1	0.0800	<0.0000990	99	46.8 - 119
Benzo(b)fluoranthene	0.0794	mg/L	1	0.0800	<0.0000684	99	39.9 - 129
Benzo(k)fluoranthene	0.0865	mg/L	1	0.0800	<0.0000830	108	42.6 - 136
Benzo(a)pyrene	0.0922	mg/L	1	0.0800	<0.0000549	115	45 - 143
Indeno(1,2,3-cd)pyrene	0.112	mg/L	1	0.0800	<0.0000869	140	51.1 - 156
Dibenzo(a,h)anthracene	0.110	mg/L	1	0.0800	<0.0000605	138	48.2 - 151
Benzo(g,h,i)perylene	0.110	mg/L	1	0.0800	<0.0000681	138	48.3 - 152

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0412	mg/L	1	0.0800	<0.0000730	52	20.4 - 86.5	1	20
2-Methylnaphthalene	0.0439	mg/L	1	0.0800	<0.0000509	55	18.2 - 94.2	2	20
1-Methylnaphthalene	0.0438	mg/L	1	0.0800	<0.0000748	55	25.4 - 91.1	3	20
Acenaphthylene	0.0536	mg/L	1	0.0800	<0.0000767	67	32.4 - 109	1	20
Acenaphthene	0.0525	mg/L	1	0.0800	<0.000142	66	30.4 - 104	1	20
Dibenzofuran	0.0554	mg/L	1	0.0800	<0.0000470	69	14.8 - 119	1	20
Fluorene	0.0688	mg/L	1	0.0800	<0.0000569	86	26.5 - 124	2	20
Anthracene	0.0682	mg/L	1	0.0800	<0.0000876	85	44.2 - 113	2	20
Phenanthrene	0.0671	mg/L	1	0.0800	<0.0000552	84	44.7 - 109	3	20
Fluoranthene	0.0774	mg/L	1	0.0800	<0.0000954	97	48.2 - 125	6	20
Pyrene	0.0782	mg/L	1	0.0800	<0.0000497	98	40.5 - 128	3	20
Benzo(a)anthracene	0.0746	mg/L	1	0.0800	<0.0000328	93	45 - 115	2	20
Chrysene	0.0778	mg/L	1	0.0800	<0.0000990	97	46.8 - 119	2	20
Benzo(b)fluoranthene	0.0775	mg/L	1	0.0800	<0.0000684	97	39.9 - 129	2	20
Benzo(k)fluoranthene	0.0852	mg/L	1	0.0800	<0.0000830	106	42.6 - 136	2	20
Benzo(a)pyrene	0.0905	mg/L	1	0.0800	<0.0000549	113	45 - 143	2	20
Indeno(1,2,3-cd)pyrene	0.109	mg/L	1	0.0800	<0.0000869	136	51.1 - 156	3	20
Dibenzo(a,h)anthracene	0.109	mg/L	1	0.0800	<0.0000605	136	48.2 - 151	1	20
Benzo(g,h,i)perylene	0.108	mg/L	1	0.0800	<0.0000681	135	48.3 - 152	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0517	0.0506	mg/L	1	0.0800	65	63	15.8 - 97.2

continued . . .

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control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorobiphenyl	0.0464	0.0453	mg/L	1	0.0800	58	57	16 - 91.6
Terphenyl-d14	0.0893	0.0876	mg/L	1	0.0800	112	110	55 - 117

Matrix Spike (MS-1) Spiked Sample: 179850

QC Batch: 54505
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	3.22	mg/L	20	2.00	1.2185	100	10 - 160.8
Toluene	1.92	mg/L	20	2.00	0.0253	95	10 - 160.7
Ethylbenzene	2.10	mg/L	20	2.00	0.2215	94	10 - 158.3
Xylene	5.69	mg/L	20	6.00	0.0469	94	10 - 158

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	3.22	mg/L	20	2.00	1.2185	100	10 - 160.8	0	20
Toluene	1.92	mg/L	20	2.00	0.0253	95	10 - 160.7	0	20
Ethylbenzene	2.13	mg/L	20	2.00	0.2215	95	10 - 158.3	1	20
Xylene	5.76	mg/L	20	6.00	0.0469	95	10 - 158	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.98	1.97	mg/L	20	2	99	98	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	1.99	1.98	mg/L	20	2	100	99	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 180162

QC Batch: 54506
Prep Batch: 46613

Date Analyzed: 2008-11-21
QC Preparation: 2008-11-20

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	67.8	mg/L	50	50.0	21	94	70 - 130

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

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	66.4	mg/L	50	50.0	21	91	70 - 130	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5.05	4.84	mg/L	50	5	101	97	70 - 130
4-Bromofluorobenzene (4-BFB)	5.17	5.02	mg/L	50	5	103	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 179985

QC Batch: 54524 Date Analyzed: 2008-11-21 Analyzed By: LD
Prep Batch: 46618 QC Preparation: 2008-11-21 Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	⁹ 34.7	mg/L	1	25.0	<2.44	139	70 - 130

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	¹⁰ 34.5	mg/L	1	25.0	<2.44	138	70 - 130	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	10.1	9.77	mg/L	1	10	101	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 180036

QC Batch: 54540 Date Analyzed: 2008-11-21 Analyzed By: AG
Prep Batch: 46650 QC Preparation: 2008-11-21 Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0972	mg/L	1	0.100	<0.000800	97	10 - 160.8
Toluene	0.0954	mg/L	1	0.100	<0.000800	95	10 - 160.7

continued ...

⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

¹⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued . . .

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	0.0941	mg/L	1	0.100	<0.000500	94	10 - 158.3
Xylene	0.282	mg/L	1	0.300	<0.000900	94	10 - 158

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	0.0976	mg/L	1	0.100	<0.000800	98	10 - 160.8	0	20
Toluene	0.0966	mg/L	1	0.100	<0.000800	97	10 - 160.7	1	20
Ethylbenzene	0.0960	mg/L	1	0.100	<0.000500	96	10 - 158.3	2	20
Xylene	0.289	mg/L	1	0.300	<0.000900	96	10 - 158	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)	0.0955	0.0952	mg/L	1	0.1	96	95	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.0957	0.0960	mg/L	1	0.1	96	96	37.5 - 136

Matrix Spike (MS-1) Spiked Sample: 180039

QC Batch: 54541
Prep Batch: 46650

Date Analyzed: 2008-11-22
QC Preparation: 2008-11-21

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.115	mg/L	1	0.100	0.011	104	10 - 160.8
Toluene	0.102	mg/L	1	0.100	<0.000800	102	10 - 160.7
Ethylbenzene	0.101	mg/L	1	0.100	0.0015	100	10 - 158.3
Xylene	0.300	mg/L	1	0.300	<0.000900	100	10 - 158

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	0.114	mg/L	1	0.100	0.011	103	10 - 160.8	1	20
Toluene	0.101	mg/L	1	0.100	<0.000800	101	10 - 160.7	1	20
Ethylbenzene	0.100	mg/L	1	0.100	0.0015	98	10 - 158.3	1	20
Xylene	0.300	mg/L	1	0.300	<0.000900	100	10 - 158	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)	0.104	0.102	mg/L	1	0.1	104	102	33.1 - 132.5
4-Bromofluorobenzene (4-BFB)	0.127	0.124	mg/L	1	0.1	127	124	37.5 - 136

Standard (ICV-1)

QC Batch: 54505

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0939	94	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.0931	93	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.0948	95	85 - 115	2008-11-21
Xylene		mg/L	0.300	0.284	95	85 - 115	2008-11-21

Standard (CCV-1)

QC Batch: 54505

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0991	99	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.0973	97	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.0969	97	85 - 115	2008-11-21
Xylene		mg/L	0.300	0.290	97	85 - 115	2008-11-21

Standard (ICV-1)

QC Batch: 54506

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.882	88	85 - 115	2008-11-21

Standard (CCV-1)

QC Batch: 54506

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.05	105	85 - 115	2008-11-21

Standard (ICV-1)

QC Batch: 54524

Date Analyzed: 2008-11-21

Analyzed By: LD

Report Date: December 15, 2008
TNM-LF-2000-7

Work Order: 8112004
Bob Durham

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West of Monument, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	249	100	85 - 115	2008-11-21

Standard (CCV-1)

QC Batch: 54524

Date Analyzed: 2008-11-21

Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	263	105	85 - 115	2008-11-21

Standard (ICV-1)

QC Batch: 54540

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0978	98	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.0978	98	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.0956	96	85 - 115	2008-11-21
Xylene		ug/L	0.300	0.289	96	85 - 115	2008-11-21

Standard (CCV-1)

QC Batch: 54540

Date Analyzed: 2008-11-21

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	85 - 115	2008-11-21
Toluene		mg/L	0.100	0.104	104	85 - 115	2008-11-21
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2008-11-21
Xylene		ug/L	0.300	0.318	106	85 - 115	2008-11-21

Standard (ICV-1)

QC Batch: 54541

Date Analyzed: 2008-11-22

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2008-11-22
Toluene		mg/L	0.100	0.103	103	85 - 115	2008-11-22
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2008-11-22
Xylene		mg/L	0.300	0.308	103	85 - 115	2008-11-22

Standard (CCV-1)

QC Batch: 54541

Date Analyzed: 2008-11-22

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0999	100	85 - 115	2008-11-22
Toluene		mg/L	0.100	0.0996	100	85 - 115	2008-11-22
Ethylbenzene		mg/L	0.100	0.0976	98	85 - 115	2008-11-22
Xylene		mg/L	0.300	0.294	98	85 - 115	2008-11-22

Standard (CCV-2)

QC Batch: 54678

Date Analyzed: 2008-12-01

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.2	92	80 - 120	2008-12-01
2-Methylnaphthalene		mg/L	60.0	50.6	84	80 - 120	2008-12-01
1-Methylnaphthalene		mg/L	60.0	51.1	85	80 - 120	2008-12-01
Acenaphthylene		mg/L	60.0	56.6	94	80 - 120	2008-12-01
Acenaphthene		mg/L	60.0	56.7	94	80 - 120	2008-12-01
Dibenzofuran		mg/L	60.0	62.0	103	80 - 120	2008-12-01
Fluorene		mg/L	60.0	69.6	116	80 - 120	2008-12-01
Anthracene		mg/L	60.0	58.7	98	80 - 120	2008-12-01
Phenanthrene		mg/L	60.0	56.7	94	80 - 120	2008-12-01
Fluoranthene		mg/L	60.0	60.7	101	80 - 120	2008-12-01
Pyrene		mg/L	60.0	60.6	101	80 - 120	2008-12-01
Benzo(a)anthracene		mg/L	60.0	57.3	96	80 - 120	2008-12-01
Chrysene		mg/L	60.0	58.9	98	80 - 120	2008-12-01
Benzo(b)fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-12-01
Benzo(k)fluoranthene		mg/L	60.0	59.0	98	80 - 120	2008-12-01
Benzo(a)pyrene		mg/L	60.0	62.2	104	80 - 120	2008-12-01
Indeno(1,2,3-cd)pyrene	¹¹	mg/L	60.0	74.8	125	80 - 120	2008-12-01

continued ...

¹¹Indeno(1,2,3-cd)pyrene out of range for CV. Sample values above reporting limit are flagged as estimated concentration. •

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dibenzo(a,h)anthracene	¹²	mg/L	60.0	75.5	126	80 - 120	2008-12-01
Benzo(g,h,i)perylene	¹³	mg/L	60.0	72.7	121	80 - 120	2008-12-01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		68.8	mg/L	1	60.0	115	80 - 120
2-Fluorobiphenyl		57.1	mg/L	1	60.0	95	80 - 120
Terphenyl-d14		67.0	mg/L	1	60.0	112	80 - 120

Standard (CCV-1)

QC Batch: 54852

Date Analyzed: 2008-12-05

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.5	92	80 - 120	2008-12-05
2-Methylnaphthalene		mg/L	60.0	52.7	88	80 - 120	2008-12-05
1-Methylnaphthalene		mg/L	60.0	53.1	88	80 - 120	2008-12-05
Acenaphthylene		mg/L	60.0	56.2	94	80 - 120	2008-12-05
Acenaphthene		mg/L	60.0	56.4	94	80 - 120	2008-12-05
Dibenzofuran		mg/L	60.0	61.2	102	80 - 120	2008-12-05
Fluorene		mg/L	60.0	68.4	114	80 - 120	2008-12-05
Anthracene		mg/L	60.0	58.1	97	80 - 120	2008-12-05
Phenanthrene		mg/L	60.0	56.7	94	80 - 120	2008-12-05
Fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-12-05
Pyrene		mg/L	60.0	58.7	98	80 - 120	2008-12-05
Benzo(a)anthracene		mg/L	60.0	55.8	93	80 - 120	2008-12-05
Chrysene		mg/L	60.0	58.4	97	80 - 120	2008-12-05
Benzo(b)fluoranthene		mg/L	60.0	60.5	101	80 - 120	2008-12-05
Benzo(k)fluoranthene		mg/L	60.0	61.2	102	80 - 120	2008-12-05
Benzo(a)pyrene		mg/L	60.0	61.2	102	80 - 120	2008-12-05
Indeno(1,2,3-cd)pyrene	¹⁴	mg/L	60.0	75.5	126	80 - 120	2008-12-05
Dibenzo(a,h)anthracene	¹⁵	mg/L	60.0	74.9	125	80 - 120	2008-12-05
Benzo(g,h,i)perylene	¹⁶	mg/L	60.0	73.3	122	80 - 120	2008-12-05

continued ...

¹²Dibenzo(a,h)anthracene out of range for CV. Sample values above reporting limit are flagged as estimated concentration. •

¹³Benzo(g,h,i)perylene out of range for CV. Sample values above reporting limit are flagged as estimated concentration. •

¹⁴Indeno(1,2,3-cd)pyrene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

¹⁵Dibenzo(a,h)anthracene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

¹⁶Benzo(g,h,i)perylene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

standard continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		67.7	mg/L	1	60.0	113	80 - 120
2-Fluorobiphenyl		56.0	mg/L	1	60.0	93	80 - 120
Terphenyl-d14		65.9	mg/L	1	60.0	110	80 - 120

Standard (CCV-2)

QC Batch: 54852

Date Analyzed: 2008-12-05

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.2	92	80 - 120	2008-12-05
2-Methylnaphthalene		mg/L	60.0	57.6	96	80 - 120	2008-12-05
1-Methylnaphthalene		mg/L	60.0	59.1	98	80 - 120	2008-12-05
Acenaphthylene		mg/L	60.0	56.8	95	80 - 120	2008-12-05
Acenaphthene		mg/L	60.0	56.8	95	80 - 120	2008-12-05
Dibenzofuran		mg/L	60.0	63.4	106	80 - 120	2008-12-05
Fluorene		mg/L	60.0	71.2	119	80 - 120	2008-12-05
Anthracene		mg/L	60.0	57.8	96	80 - 120	2008-12-05
Phenanthrene		mg/L	60.0	56.4	94	80 - 120	2008-12-05
Fluoranthene		mg/L	60.0	55.9	93	80 - 120	2008-12-05
Pyrene		mg/L	60.0	57.9	96	80 - 120	2008-12-05
Benzo(a)anthracene		mg/L	60.0	56.1	94	80 - 120	2008-12-05
Chrysene		mg/L	60.0	58.8	98	80 - 120	2008-12-05
Benzo(b)fluoranthene		mg/L	60.0	61.3	102	80 - 120	2008-12-05
Benzo(k)fluoranthene		mg/L	60.0	59.6	99	80 - 120	2008-12-05
Benzo(a)pyrene		mg/L	60.0	63.4	106	80 - 120	2008-12-05
Indeno(1,2,3-cd)pyrene	¹⁷	mg/L	60.0	76.9	128	80 - 120	2008-12-05
Dibenzo(a,h)anthracene	¹⁸	mg/L	60.0	77.2	129	80 - 120	2008-12-05
Benzo(g,h,i)perylene	¹⁹	mg/L	60.0	74.6	124	80 - 120	2008-12-05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		67.2	mg/L	1	60.0	112	80 - 120
2-Fluorobiphenyl		51.8	mg/L	1	60.0	86	80 - 120
Terphenyl-d14		64.4	mg/L	1	60.0	107	80 - 120

¹⁷Indeno(1,2,3-cd)pyrene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

¹⁸Dibenzo(a,h)anthracene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

¹⁹Benzo(g,h,i)perylene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

Standard (CCV-1)

QC Batch: 54853

Date Analyzed: 2008-12-04

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.1	92	80 - 120	2008-12-04
2-Methylnaphthalene		mg/L	60.0	52.0	87	80 - 120	2008-12-04
1-Methylnaphthalene		mg/L	60.0	52.2	87	80 - 120	2008-12-04
Acenaphthylene		mg/L	60.0	56.0	93	80 - 120	2008-12-04
Acenaphthene		mg/L	60.0	56.8	95	80 - 120	2008-12-04
Dibenzofuran		mg/L	60.0	63.2	105	80 - 120	2008-12-04
Fluorene		mg/L	60.0	71.8	120	80 - 120	2008-12-04
Anthracene		mg/L	60.0	57.8	96	80 - 120	2008-12-04
Phenanthrene		mg/L	60.0	55.9	93	80 - 120	2008-12-04
Fluoranthene		mg/L	60.0	57.4	96	80 - 120	2008-12-04
Pyrene		mg/L	60.0	59.6	99	80 - 120	2008-12-04
Benzo(a)anthracene		mg/L	60.0	56.1	94	80 - 120	2008-12-04
Chrysene		mg/L	60.0	58.1	97	80 - 120	2008-12-04
Benzo(b)fluoranthene		mg/L	60.0	60.0	100	80 - 120	2008-12-04
Benzo(k)fluoranthene		mg/L	60.0	59.5	99	80 - 120	2008-12-04
Benzo(a)pyrene		mg/L	60.0	62.4	104	80 - 120	2008-12-04
Indeno(1,2,3-cd)pyrene	²⁰	mg/L	60.0	77.0	128	80 - 120	2008-12-04
Dibenzo(a,h)anthracene	²¹	mg/L	60.0	77.6	129	80 - 120	2008-12-04
Benzo(g,h,i)perylene	²²	mg/L	60.0	74.5	124	80 - 120	2008-12-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		67.4	mg/L	1	60.0	112	80 - 120
2-Fluorobiphenyl		53.9	mg/L	1	60.0	90	80 - 120
Terphenyl-d14		66.8	mg/L	1	60.0	111	80 - 120

Standard (CCV-2)

QC Batch: 54853

Date Analyzed: 2008-12-04

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	55.5	92	80 - 120	2008-12-04
2-Methylnaphthalene		mg/L	60.0	52.7	88	80 - 120	2008-12-04
1-Methylnaphthalene		mg/L	60.0	53.1	88	80 - 120	2008-12-04
Acenaphthylene		mg/L	60.0	56.2	94	80 - 120	2008-12-04

continued . . .

²⁰Indeno(1,2,3-cd)pyrene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

²¹Dibenzo(a,h)anthracene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

²²Benzo(g,h,i)perylene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Acenaphthene		mg/L	60.0	56.4	94	80 - 120	2008-12-04
Dibenzofuran		mg/L	60.0	61.2	102	80 - 120	2008-12-04
Fluorene		mg/L	60.0	68.4	114	80 - 120	2008-12-04
Anthracene		mg/L	60.0	58.1	97	80 - 120	2008-12-04
Phenanthrene		mg/L	60.0	56.7	94	80 - 120	2008-12-04
Fluoranthene		mg/L	60.0	60.8	101	80 - 120	2008-12-04
Pyrene		mg/L	60.0	58.7	98	80 - 120	2008-12-04
Benzo(a)anthracene		mg/L	60.0	55.8	93	80 - 120	2008-12-04
Chrysene		mg/L	60.0	58.4	97	80 - 120	2008-12-04
Benzo(b)fluoranthene		mg/L	60.0	60.5	101	80 - 120	2008-12-04
Benzo(k)fluoranthene		mg/L	60.0	61.2	102	80 - 120	2008-12-04
Benzo(a)pyrene		mg/L	60.0	61.2	102	80 - 120	2008-12-04
Indeno(1,2,3-cd)pyrene	²³	mg/L	60.0	75.5	126	80 - 120	2008-12-04
Dibenzo(a,h)anthracene	²⁴	mg/L	60.0	74.9	125	80 - 120	2008-12-04
Benzo(g,h,i)perylene	²⁵	mg/L	60.0	73.3	122	80 - 120	2008-12-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		67.7	mg/L	1	60.0	113	80 - 120
2-Fluorobiphenyl		56.0	mg/L	1	60.0	93	80 - 120
Terphenyl-d14		65.9	mg/L	1	60.0	110	80 - 120

²³Indeno(1,2,3-cd)pyrene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

²⁴Dibenzo(a,h)anthracene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

²⁵Benzo(g,h,i)perylene out of range for CV. Sample results that are above reporting limits will be flagged as estimated concentration. •

TraceAnalysis, Inc.

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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: NOVAT Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 Commerce

Contact Person: Ron Ronsaville

Invoice to: (if different from above) Plains

Project #: TAN-LF-2000-7

Project Location (including state): NM

Project Name: Bob Durham

Sampler Signature: J

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX						PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	Turn Around Time if different from standard	Hold
80025	mw 33	4		X				X				X		11-18-8	1340		
026	mw 9														1400		
027	mw 15														1420		
028	mw 10														1440		
029	mw 7														1500		
030	mw 32														1520		
031	mw 37														1540		
032	mw 8														1600		
033	mw 28														1620		
034	mw 3														1640		
035	mw 16														1700		

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / DRO / TVHC	PAH 8021B / 602 / 8260B / 624	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	PCBs 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard
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REMARKS: BTX, GRO, DRO - Midland
PAH - Lubbock

LAB USE ONLY

TraceAnalysis, Inc.

Headspace (V) (N) (A)

Log in Review

Carrier # 800470

Relinquished by: NOVAT Date: 11-19-08 Time: 10:40

Relinquished by: Lindsey Dillon Trace 11-19-08 10:40

Relinquished by: NOVAT Date: 11-19-08 Time: 10:40

Relinquished by: NOVAT Date: 11-19-08 Time: 10:40



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3015 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: February 23, 2009

Work Order: 9021909



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
187846	MW-26	water	2009-02-17	14:10	2009-02-19
187847	MW-31	water	2009-02-17	14:35	2009-02-19
187848	MW-33	water	2009-02-17	15:00	2009-02-19
187849	MW-9	water	2009-02-17	15:25	2009-02-19
187850	MW-15	water	2009-02-17	15:50	2009-02-19
187851	MW-10	water	2009-02-17	16:15	2009-02-19
187852	MW-7	water	2009-02-17	16:40	2009-02-19
187853	MW-32	water	2009-02-17	17:05	2009-02-19
187854	MW-37	water	2009-02-17	17:30	2009-02-19
187855	MW-8	water	2009-02-17	17:55	2009-02-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
187856	MW-28	water	2009-02-18	09:00	2009-02-19
187857	MW-3	water	2009-02-18	09:20	2009-02-19
187858	MW-23	water	2009-02-18	09:40	2009-02-19
187859	MW-16	water	2009-02-18	10:00	2009-02-19
187860	MW-4	water	2009-02-18	10:20	2009-02-19
187861	MW-6	water	2009-02-18	10:40	2009-02-19
187862	MW-13	water	2009-02-18	11:00	2009-02-19
187863	MW-2	water	2009-02-18	11:20	2009-02-19
187864	MW-5	water	2009-02-18	11:40	2009-02-19
187865	MW-38	water	2009-02-18	12:00	2009-02-19
187866	MW-1	water	2009-02-18	12:40	2009-02-19

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2009-02-19 and assigned to work order 9021909. Samples for work order 9021909 were received intact without headspace and at a temperature of 3.2 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	48699	2009-02-19 at 10:30	57001	2009-02-19 at 10:30
BTEX	S 8021B	48736	2009-02-20 at 15:14	57046	2009-02-20 at 15:14

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 9021909 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

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Analytical Report

Sample: 187846 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0986	mg/L	1	0.100	99	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0732	mg/L	1	0.100	73	40.1 - 136

Sample: 187847 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0740	mg/L	1	0.100	74	40.1 - 136

Sample: 187848 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0985	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0757	mg/L	1	0.100	76	40.1 - 136

Sample: 187849 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0778	mg/L	1	0.100	78	40.1 - 136

Sample: 187850 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0780	mg/L	1	0.100	78	40.1 - 136

Sample: 187851 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 57001

Prep Batch: 48699

Analytical Method: S 8021B

Date Analyzed: 2009-02-19

Sample Preparation: 2009-02-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0794	mg/L	1	0.100	79	40.1 - 136

Sample: 187852 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 57001

Prep Batch: 48699

Analytical Method: S 8021B

Date Analyzed: 2009-02-19

Sample Preparation: 2009-02-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0814	mg/L	1	0.100	81	40.1 - 136

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Sample: 187853 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 57001
Prep Batch: 48699

Analytical Method: S 8021B
Date Analyzed: 2009-02-19
Sample Preparation: 2009-02-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0795	mg/L	1	0.100	80	40.1 - 136

Sample: 187854 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0821	mg/L	1	0.100	82	40.1 - 136

Sample: 187855 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0788	mg/L	1	0.100	79	40.1 - 136

Sample: 187856 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0965	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0841	mg/L	1	0.100	84	40.1 - 136

Sample: 187857 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0958	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0768	mg/L	1	0.100	77	40.1 - 136

Sample: 187858 - MW-23

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0962	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0740	mg/L	1	0.100	74	40.1 - 136

Sample: 187859 - MW-16

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00130	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0958	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0866	mg/L	1	0.100	87	40.1 - 136

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Sample: 187860 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00150	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0950	mg/L	1	0.100	95	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0791	mg/L	1	0.100	79	40.1 - 136

Sample: 187861 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00150	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0763	mg/L	1	0.100	76	40.1 - 136

Sample: 187862 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 57046
Prep Batch: 48736

Analytical Method: S 8021B
Date Analyzed: 2009-02-20
Sample Preparation: 2009-02-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0966	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	40.1 - 136

Sample: 187863 - MW-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00410	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0970	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0905	mg/L	1	0.100	90	40.1 - 136

Sample: 187864 - MW-5

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0970	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0273	mg/L	1	0.00100
Xylene		0.0180	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0952	mg/L	1	0.100	95	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0933	mg/L	1	0.100	93	40.1 - 136

Sample: 187865 - MW-38

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0123	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00840	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0941	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0794	mg/L	1	0.100	79	40.1 - 136

Sample: 187866 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 57046

Prep Batch: 48736

Analytical Method: S 8021B

Date Analyzed: 2009-02-20

Sample Preparation: 2009-02-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0152	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0183	mg/L	1	0.00100
Xylene		0.0164	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0930	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	40.1 - 136

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Method Blank (1) QC Batch: 57001

QC Batch: 57001
Prep Batch: 48699

Date Analyzed: 2009-02-19
QC Preparation: 2009-02-19

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0754	mg/L	1	0.100	75	69.1 - 132.3

Method Blank (1) QC Batch: 57046

QC Batch: 57046
Prep Batch: 48736

Date Analyzed: 2009-02-20
QC Preparation: 2009-02-20

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0888	mg/L	1	0.100	89	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 57001
Prep Batch: 48699

Date Analyzed: 2009-02-19
QC Preparation: 2009-02-19

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0982	mg/L	1	0.100	<0.00110	98	84 - 119.7
Toluene	0.0980	mg/L	1	0.100	<0.00100	98	84.9 - 118.2
Ethylbenzene	0.0996	mg/L	1	0.100	<0.00100	100	84.4 - 118.6

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.293	mg/L	1	0.300	<0.00290	98	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0887	mg/L	1	0.100	<0.00110	89	84 - 119.7	10	20
Toluene	0.0890	mg/L	1	0.100	<0.00100	89	84.9 - 118.2	10	20
Ethylbenzene	0.0900	mg/L	1	0.100	<0.00100	90	84.4 - 118.6	10	20
Xylene	0.262	mg/L	1	0.300	<0.00290	87	84.8 - 117.8	11	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.0977	mg/L	1	0.100	100	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0894	0.0790	mg/L	1	0.100	89	79	59.7 - 136.3

Laboratory Control Spike (LCS-1)

QC Batch: 57046
Prep Batch: 48736

Date Analyzed: 2009-02-20
QC Preparation: 2009-02-20

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0937	mg/L	1	0.100	<0.00110	94	84 - 119.7
Toluene	0.0938	mg/L	1	0.100	<0.00100	94	84.9 - 118.2
Ethylbenzene	0.0931	mg/L	1	0.100	<0.00100	93	84.4 - 118.6
Xylene	0.275	mg/L	1	0.300	<0.00290	92	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0982	mg/L	1	0.100	<0.00110	98	84 - 119.7	5	20
Toluene	0.0986	mg/L	1	0.100	<0.00100	99	84.9 - 118.2	5	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.00100	100	84.4 - 118.6	7	20
Xylene	0.296	mg/L	1	0.300	<0.00290	99	84.8 - 117.8	7	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0982	0.0985	mg/L	1	0.100	98	98	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0907	0.0911	mg/L	1	0.100	91	91	59.7 - 136.3

Matrix Spike (MS-1) Spiked Sample: 187845

QC Batch: 57001
Prep Batch: 48699

Date Analyzed: 2009-02-19
QC Preparation: 2009-02-19

Analyzed By: ME
Prepared By: ME

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1	9.30	mg/L	100	10.0	6.3196	30	77.5 - 121.1
Toluene	2	5.05	mg/L	100	10.0	<0.100	50	78.8 - 119.6
Ethylbenzene	3	5.89	mg/L	100	10.0	1.0746	48	77.9 - 120.5
Xylene	4	15.3	mg/L	100	30.0	<0.290	50	78 - 119.4

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	5	16.2	mg/L	100	10.0	6.3196	99	77.5 - 121.1	54	20
Toluene	6	9.66	mg/L	100	10.0	<0.100	97	78.8 - 119.6	63	20
Ethylbenzene	7	11.1	mg/L	100	10.0	1.0746	100	77.9 - 120.5	61	20
Xylene	8	29.0	mg/L	100	30.0	<0.290	96	78 - 119.4	62	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)	10.2	9.69	mg/L	100	10	102	97	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	8.17	8.69	mg/L	100	10	82	87	59.4 - 127.3

Matrix Spike (MS-1) Spiked Sample: 187831

QC Batch: 57046
Prep Batch: 48736

Date Analyzed: 2009-02-20
QC Preparation: 2009-02-20

Analyzed By: ME
Prepared By: ME

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1.81	mg/L	10	1.00	0.9229	89	77.5 - 121.1
Toluene		0.892	mg/L	10	1.00	<0.0100	89	78.8 - 119.6
Ethylbenzene		0.883	mg/L	10	1.00	<0.0100	88	77.9 - 120.5
Xylene		2.64	mg/L	10	3.00	0.0456	86	78 - 119.4

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

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

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

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁶MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁷MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

⁸MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.72	mg/L	10	1.00	0.9229	73	77.5 - 121.1	5	20
Toluene	0.888	mg/L	10	1.00	<0.0100	89	78.8 - 119.6	0	20
Ethylbenzene	0.894	mg/L	10	1.00	<0.0100	89	77.9 - 120.5	1	20
Xylene	2.66	mg/L	10	3.00	0.0456	87	78 - 119.4	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.970	0.969	mg/L	10	1	97	97	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	0.753	0.751	mg/L	10	1	75	75	59.4 - 127.3

Standard (CCV-1)

QC Batch: 57001

Date Analyzed: 2009-02-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0883	88	85 - 115	2009-02-19
Toluene		mg/L	0.100	0.0879	88	85 - 115	2009-02-19
Ethylbenzene		mg/L	0.100	0.0875	88	85 - 115	2009-02-19
Xylene		mg/L	0.300	0.258	86	85 - 115	2009-02-19

Standard (CCV-2)

QC Batch: 57001

Date Analyzed: 2009-02-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0987	99	85 - 115	2009-02-19
Toluene		mg/L	0.100	0.0972	97	85 - 115	2009-02-19
Ethylbenzene		mg/L	0.100	0.100	100	85 - 115	2009-02-19
Xylene		mg/L	0.300	0.291	97	85 - 115	2009-02-19

Standard (ICV-1)

QC Batch: 57046

Date Analyzed: 2009-02-20

Analyzed By: ME

⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: February 23, 2009
TNM-LF-2000-07

Work Order: 9021909
Bob Durham

Page Number: 17 of 17
Monument, Lea County, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0960	96	85 - 115	2009-02-20
Toluene		mg/L	0.100	0.0970	97	85 - 115	2009-02-20
Ethylbenzene		mg/L	0.100	0.0994	99	85 - 115	2009-02-20
Xylene		mg/L	0.300	0.291	97	85 - 115	2009-02-20

Standard (CCV-1)

QC Batch: 57046

Date Analyzed: 2009-02-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0906	91	85 - 115	2009-02-20
Toluene		mg/L	0.100	0.0905	90	85 - 115	2009-02-20
Ethylbenzene		mg/L	0.100	0.0903	90	85 - 115	2009-02-20
Xylene		mg/L	0.300	0.260	87	85 - 115	2009-02-20

Standard (CCV-2)

QC Batch: 57046

Date Analyzed: 2009-02-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0874	87	85 - 115	2009-02-20
Toluene		mg/L	0.100	0.0875	88	85 - 115	2009-02-20
Ethylbenzene		mg/L	0.100	0.0887	89	85 - 115	2009-02-20
Xylene		mg/L	0.300	0.257	86	85 - 115	2009-02-20

TraceAnalysis, Inc.

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Fax (817) 560-4336

Company Name: NOVA Phone #: 432 520 7720
Address: (Street, City, Zip) 2057 Commerce Fax #:
Contact Person: Ron Rounsaville E-mail:
Voice to: Plains
f different from above)
Project #:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (AB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME	Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE		
87846	MW-26	3	var	X				X					2/17/09	1410	
847	MW-31												1435		
848	MW-33												1500		
849	MW-9												1525		
850	MW-15												1550		
851	MW-10												1615		
852	MW-17												1640		
853	MW-32												1705		
854	MW-37												1730		
855	MW-8												1755		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
<u>Ron</u>	<u>NOVA</u>	<u>2-18-09</u>	<u>825</u>	<u>Trace</u>	<u>Trace</u>	<u>2-19-09</u>	<u>08:25</u>	<u>3:20</u>
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
Initials: <u>Trace</u>
Headspace Y/N: <u>NA</u>
Log in Review: <u>32</u>

REMARKS: All tests Milland

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

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

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Carrier # Carry-in

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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**Camp Bowie Blvd. West, Suite 180
Ft. Worth, Texas 76116**
Tel (817) 201-5260
Fax (817) 560-4336

Company Name:

NOVA

Address: _____ (Street, City, Zip)

2057 Commerce

Contact Person: Ron Rounsaville

voice to:

Pain\$
(if different from above)

Project #:

Project #: TWM-LF 2000-17

Project Location (including state):

Project Name:

Sample Signature

[illegible]

elinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
	Nam	2-19-09	0225		Trace	2-19-09	08:35	3.20
elinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:
elinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp °C:

LAB USE ONLY

INSTRUMENT: 1000

HEADSPACE: Y 10 10

LOG IN REVIEW: 32

REMARKS: All tests Midland

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check if Special Reporting Limits Are Needed

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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

El Paso: T104704221-08-TX

Midland: T104704392-08-TX

LELAP-02003

LELAP-02002

Kansas E-10317

Analytical and Quality Control Report

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

Report Date: May 21, 2009

Work Order: 9051916



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
196349	MW-23	water	2009-05-18	07:00	2009-05-19
196350	MW-26	water	2009-05-18	07:30	2009-05-19
196351	MW-31	water	2009-05-18	08:00	2009-05-19
196352	MW-33	water	2009-05-18	08:30	2009-05-19
196353	MW-9	water	2009-05-18	09:00	2009-05-19
196354	MW-15	water	2009-05-18	09:30	2009-05-19
196355	MW-10	water	2009-05-18	10:00	2009-05-19
196356	MW-7	water	2009-05-18	10:30	2009-05-19
196357	MW-32	water	2009-05-18	11:00	2009-05-19
196358	MW-37	water	2009-05-18	11:30	2009-05-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
196359	MW-8	water	2009-05-18	12:00	2009-05-19
196360	MW-28	water	2009-05-18	12:30	2009-05-19
196361	MW-3	water	2009-05-18	13:00	2009-05-19
196362	MW-16	water	2009-05-18	13:30	2009-05-19
196363	MW-6	water	2009-05-18	14:00	2009-05-19
196364	MW-38	water	2009-05-18	14:30	2009-05-19
196365	MW-2	water	2009-05-18	15:00	2009-05-19
196366	MW-13	water	2009-05-18	15:30	2009-05-19
196367	MW-4	water	2009-05-18	16:00	2009-05-19
196368	MW-1	water	2009-05-18	16:30	2009-05-19
196369	MW-5	water	2009-05-18	17:00	2009-05-19

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



Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2009-05-19 and assigned to work order 9051916. Samples for work order 9051916 were received intact without headspace and at a temperature of 4.0 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	50905	2009-05-19 at 14:51	59637	2009-05-19 at 14:51
BTEX	S 8021B	50932	2009-05-20 at 09:03	59672	2009-05-20 at 09:03

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 9051916 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.

Report Date: May 21, 2009
TNM-LF-2000-7

Work Order: 9051916
Bob Durham

Page Number: 4 of 16
West of Monument, NM

Analytical Report

Sample: 196349 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 59672
Prep Batch: 50932

Analytical Method: S 8021B
Date Analyzed: 2009-05-20
Sample Preparation: 2009-05-20

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0845	mg/L	1	0.100	84	40.1 - 136

Sample: 196350 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0805	mg/L	1	0.100	80	40.1 - 136

Sample: 196351 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Report Date: May 21, 2009
TNM-LF-2000-7

Work Order: 9051916
Bob Durham

Page Number: 5 of 16
West of Monument, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0824	mg/L	1	0.100	82	40.1 - 136

Sample: 196352 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0801	mg/L	1	0.100	80	40.1 - 136

Sample: 196353 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0858	mg/L	1	0.100	86	40.1 - 136

Sample: 196354 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0977	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0781	mg/L	1	0.100	78	40.1 - 136

Sample: 196355 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0838	mg/L	1	0.100	84	40.1 - 136

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Sample: 196356 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00500	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0809	mg/L	1	0.100	81	40.1 - 136

Sample: 196357 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00700	mg/L	1	0.00100
Xylene		0.0165	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	40.1 - 136

Sample: 196358 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0937	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0822	mg/L	1	0.100	82	40.1 - 136

Sample: 196359 - MW-8

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0925	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0798	mg/L	1	0.100	80	40.1 - 136

Sample: 196360 - MW-28

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0957	mg/L	1	0.100	96	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0899	mg/L	1	0.100	90	40.1 - 136

Sample: 196361 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0846	mg/L	1	0.100	85	40.1 - 136

Sample: 196362 - MW-16

Laboratory: Midland

Analysis: BTEX

QC Batch: 59637

Prep Batch: 50905

Analytical Method: S 8021B

Date Analyzed: 2009-05-19

Sample Preparation: 2009-05-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0944	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0975	mg/L	1	0.100	98	40.1 - 136

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Sample: 196363 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00580	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0922	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0839	mg/L	1	0.100	84	40.1 - 136

Sample: 196364 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0172	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00890	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0920	mg/L	1	0.100	92	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0944	mg/L	1	0.100	94	40.1 - 136

Sample: 196365 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 59637
Prep Batch: 50905

Analytical Method: S 8021B
Date Analyzed: 2009-05-19
Sample Preparation: 2009-05-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00710	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00550	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	40.1 - 136

Sample: 196366 - MW-13

Laboratory: Midland

Analysis: BTEX

QC Batch: 59672

Prep Batch: 50932

Analytical Method: S 8021B

Date Analyzed: 2009-05-20

Sample Preparation: 2009-05-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0939	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	40.1 - 136

Sample: 196367 - MW-4

Laboratory: Midland

Analysis: BTEX

QC Batch: 59672

Prep Batch: 50932

Analytical Method: S 8021B

Date Analyzed: 2009-05-20

Sample Preparation: 2009-05-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0940	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.0822	mg/L	1	0.100	82	40.1 - 136

Sample: 196368 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 59672

Prep Batch: 50932

Analytical Method: S 8021B

Date Analyzed: 2009-05-20

Sample Preparation: 2009-05-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0214	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0153	mg/L	1	0.00100
Xylene		0.0205	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0942	mg/L	1	0.100	94	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	40.1 - 136

Sample: 196369 - MW-5

Laboratory: Midland

Analysis: BTEX

QC Batch: 59672

Prep Batch: 50932

Analytical Method: S 8021B

Date Analyzed: 2009-05-20

Sample Preparation: 2009-05-20

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0486	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0157	mg/L	1	0.00100
Xylene		0.0220	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0946	mg/L	1	0.100	95	77.8 - 121.1
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	40.1 - 136

Method Blank (1) QC Batch: 59637

QC Batch: 59637 Date Analyzed: 2009-05-19 Analyzed By: ME
Prep Batch: 50905 QC Preparation: 2009-05-19 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0971	mg/L	1	0.100	97	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0809	mg/L	1	0.100	81	69.1 - 132.3

Method Blank (1) QC Batch: 59672

QC Batch: 59672 Date Analyzed: 2009-05-20 Analyzed By: ME
Prep Batch: 50932 QC Preparation: 2009-05-20 Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0954	mg/L	1	0.100	95	77.2 - 129.1
4-Bromofluorobenzene (4-BFB)		0.0771	mg/L	1	0.100	77	69.1 - 132.3

Laboratory Control Spike (LCS-1)

QC Batch: 59637 Date Analyzed: 2009-05-19 Analyzed By: ME
Prep Batch: 50905 QC Preparation: 2009-05-19 Prepared By: ME

Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	¹	0.0923	mg/L	1	0.100	<0.00110	92	84 - 119.7
Toluene		0.0911	mg/L	1	0.100	<0.00100	91	84.9 - 118.2

continued ...

¹SPECIAL - MS/MSD was run but not reported due to analytes being out of range. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	0.0945	mg/L	1	0.100	<0.00100	94	84.4 - 118.6
Xylene	0.273	mg/L	1	0.300	<0.00290	91	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0984	mg/L	1	0.100	<0.00110	98	84 - 119.7	6	20
Toluene	0.100	mg/L	1	0.100	<0.00100	100	84.9 - 118.2	9	20
Ethylbenzene	0.0982	mg/L	1	0.100	<0.00100	98	84.4 - 118.6	4	20
Xylene	0.290	mg/L	1	0.300	<0.00290	97	84.8 - 117.8	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.104	mg/L	1	0.100	101	104	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0840	0.0862	mg/L	1	0.100	84	86	59.7 - 136.3

Laboratory Control Spike (LCS-1)

QC Batch: 59672
Prep Batch: 50932

Date Analyzed: 2009-05-20
QC Preparation: 2009-05-20

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0924	mg/L	1	0.100	<0.00110	92	84 - 119.7
Toluene	0.0929	mg/L	1	0.100	<0.00100	93	84.9 - 118.2
Ethylbenzene	0.0915	mg/L	1	0.100	<0.00100	92	84.4 - 118.6
Xylene	0.267	mg/L	1	0.300	<0.00290	89	84.8 - 117.8

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0908	mg/L	1	0.100	<0.00110	91	84 - 119.7	2	20
Toluene	0.0893	mg/L	1	0.100	<0.00100	89	84.9 - 118.2	4	20
Ethylbenzene	0.0872	mg/L	1	0.100	<0.00100	87	84.4 - 118.6	5	20
Xylene	0.257	mg/L	1	0.300	<0.00290	86	84.8 - 117.8	4	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0968	0.0989	mg/L	1	0.100	97	99	80 - 128.3
4-Bromofluorobenzene (4-BFB)	0.0841	0.0797	mg/L	1	0.100	84	80	59.7 - 136.3

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Matrix Spike (MS-1) Spiked Sample: 196419

QC Batch: 59672
Prep Batch: 50932

Date Analyzed: 2009-05-20
QC Preparation: 2009-05-20

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	31.1	mg/L	100	10.0	20.7127	104	77.5 - 121.1
Toluene	9.84	mg/L	100	10.0	<0.100	98	78.8 - 119.6
Ethylbenzene	9.37	mg/L	100	10.0	<0.100	94	77.9 - 120.5
Xylene	27.4	mg/L	100	30.0	<0.290	91	78 - 119.4

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	29.6	mg/L	100	10.0	20.7127	89	77.5 - 121.1	5	20
Toluene	9.39	mg/L	100	10.0	<0.100	94	78.8 - 119.6	5	20
Ethylbenzene	9.45	mg/L	100	10.0	<0.100	94	77.9 - 120.5	1	20
Xylene	27.7	mg/L	100	30.0	<0.290	92	78 - 119.4	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	9.82	10.3	mg/L	100	10	98	103	86.6 - 118.9
4-Bromofluorobenzene (4-BFB)	8.51	8.57	mg/L	100	10	85	86	59.4 - 127.3

Standard (CCV-1)

QC Batch: 59637

Date Analyzed: 2009-05-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0935	94	80 - 120	2009-05-19
Toluene		mg/L	0.100	0.0898	90	80 - 120	2009-05-19
Ethylbenzene		mg/L	0.100	0.0910	91	80 - 120	2009-05-19
Xylene		mg/L	0.300	0.271	90	80 - 120	2009-05-19

Standard (CCV-2)

QC Batch: 59637

Date Analyzed: 2009-05-19

Analyzed By: ME

Report Date: May 21, 2009
TNM-LF-2000-7

Work Order: 9051916
Bob Durham

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0969	97	80 - 120	2009-05-19
Toluene		mg/L	0.100	0.0965	96	80 - 120	2009-05-19
Ethylbenzene		mg/L	0.100	0.0929	93	80 - 120	2009-05-19
Xylene		mg/L	0.300	0.278	93	80 - 120	2009-05-19

Standard (CCV-3)

QC Batch: 59637

Date Analyzed: 2009-05-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0896	90	80 - 120	2009-05-19
Toluene		mg/L	0.100	0.112	112	80 - 120	2009-05-19
Ethylbenzene		mg/L	0.100	0.115	115	80 - 120	2009-05-19
Xylene		mg/L	0.300	0.333	111	80 - 120	2009-05-19

Standard (CCV-1)

QC Batch: 59672

Date Analyzed: 2009-05-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0927	93	80 - 120	2009-05-20
Toluene		mg/L	0.100	0.0990	99	80 - 120	2009-05-20
Ethylbenzene		mg/L	0.100	0.0992	99	80 - 120	2009-05-20
Xylene		mg/L	0.300	0.289	96	80 - 120	2009-05-20

Standard (CCV-2)

QC Batch: 59672

Date Analyzed: 2009-05-20

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0992	99	80 - 120	2009-05-20
Toluene		mg/L	0.100	0.0963	96	80 - 120	2009-05-20
Ethylbenzene		mg/L	0.100	0.0922	92	80 - 120	2009-05-20
Xylene		mg/L	0.300	0.273	91	80 - 120	2009-05-20

TraceAnalysis, Inc.

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Company Name: Nova
Address: (Street, City, Zip)
2057 Commerce
Contact Person: Ken Pennaville
Invoice to:
If different from above) Plains
Project #: NM-LF-2000-17
Project Location (including state): NM
Phone #: 432-520-7720
Fax #:
E-mail:
Project Name: B013 Durham
Sampler/Signatures: E. J. P.

ANALYSIS REQUEST
(Circle or Specify Method No.)

Contact Person: <u>Ken Rounsvaile</u>		E-mail:													
Invoice to: <u>Plains</u>															
Project #: <u>7NM-LF-2000-17</u>		Project Name: <u>Bob Durbin</u>													
Project Location (including state): <u>N.M.</u>		Sampler/Signatures: <u>[Signature]</u>													
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD						SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
36360	MW-28	3	100%	X				X						5-18	1230
361	MW-3														1300
362	MW-16														1330
363	MW-6														1400
364	MW-38														1430
365	MW-2														1500
366	MW-13														1530
367	MW-4														1600
368	MW-1														1630
369	MW-5														1700
30															
Lab Name: <u>[Signature]</u>															

Turn Around Time if different from standard	Hold

Date: <u>5-19-09</u> Time: <u>8:20</u> Company: <u>Trace</u> Received by: <u>Andy Trace</u>	Date: <u>5/19/09</u> Time: <u>8:20</u> Company: <u>Trace</u> Received by: <u>Andy Trace</u>	INST <u>4.0</u> OBS <u>4.0</u> COR <u>4.0</u>	INST <u>4.0</u> OBS <u>4.0</u> COR <u>4.0</u>	REMARKS: <u>All tests Midland</u>
Date: <u>5-19-09</u> Time: <u>8:20</u> Company: <u>Trace</u> Received by: <u>Andy Trace</u>	Date: <u>5/19/09</u> Time: <u>8:20</u> Company: <u>Trace</u> Received by: <u>Andy Trace</u>	INST <u>4.0</u> OBS <u>4.0</u> COR <u>4.0</u>	INST <u>4.0</u> OBS <u>4.0</u> COR <u>4.0</u>	

1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

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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
NCTRCA WFWB38444Y0909

DBE: VN 20657

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: August 20, 2009

Work Order: 9081817



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
206350	MW-3	water	2009-08-17	08:00	2009-08-18
206351	MW-4	water	2009-08-17	08:30	2009-08-18
206352	MW-8	water	2009-08-17	09:00	2009-08-18
206353	MW-9	water	2009-08-17	09:30	2009-08-18
206354	MW-10	water	2009-08-17	10:00	2009-08-18
206355	MW-13	water	2009-08-17	10:30	2009-08-18
206356	MW-15	water	2009-08-17	11:00	2009-08-18
206357	MW-16	water	2009-08-17	11:30	2009-08-18
206358	MW-23	water	2009-08-17	12:00	2009-08-18
206359	MW-26	water	2009-08-17	12:30	2009-08-18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
206360	MW-28	water	2009-08-17	13:00	2009-08-18
206361	MW-31	water	2009-08-17	13:30	2009-08-18
206362	MW-32	water	2009-08-17	14:00	2009-08-18
206363	MW-33	water	2009-08-17	14:30	2009-08-18
206364	MW-37	water	2009-08-17	15:00	2009-08-18
206365	MW-7	water	2009-08-17	15:30	2009-08-18
206366	MW-6	water	2009-08-17	16:00	2009-08-18
206367	MW-2	water	2009-08-17	16:30	2009-08-18
206368	MW-38	water	2009-08-17	17:00	2009-08-18
206369	MW-1	water	2009-08-17	17:30	2009-08-18
206370	MW-5	water	2009-08-17	18:00	2009-08-18

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 17 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 Bob Durham were received by TraceAnalysis, Inc. on 2009-08-18 and assigned to work order 9081817. Samples for work order 9081817 were received intact without headspace and at a temperature of 5.5 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	53485	2009-08-19 at 08:52	62680	2009-08-19 at 08:52
BTEX	S 8021B	53498	2009-08-19 at 16:06	62691	2009-08-19 at 16:06

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 9081817 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: 206350 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0983	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	49.8 - 130.8

Sample: 206351 - MW-4

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		0.00770	mg/L	1	0.00100
Ethylbenzene		0.00860	mg/L	1	0.00100
Xylene		0.0170	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	87 - 105.2
4-Bromofluorobenzene (4-BFB)	¹	0.137	mg/L	1	0.100	137	49.8 - 130.8

Sample: 206352 - MW-8

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

¹High surrogate recovery due to peak interference.

Report Date: August 20, 2009
TNM-LF-2000-7

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Bob Durham

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0982	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	49.8 - 130.8

Sample: 206353 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	49.8 - 130.8

Sample: 206354 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	49.8 - 130.8

Sample: 206355 - MW-13

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	87 - 105.2
4-Bromofluorobenzene (4-BFB)	²	0.143	mg/L	1	0.100	143	49.8 - 130.8

Sample: 206356 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	49.8 - 130.8

²High surrogate recovery due to peak interference.

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Sample: 206357 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0942	mg/L	1	0.100	94	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.121	mg/L	1	0.100	121	49.8 - 130.8

Sample: 206358 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	49.8 - 130.8

Sample: 206359 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Report Date: August 20, 2009
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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0965	mg/L	1	0.100	96	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	49.8 - 130.8

Sample: 206360 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.111	mg/L	1	0.100	111	49.8 - 130.8

Sample: 206361 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 62680
Prep Batch: 53485

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	49.8 - 130.8

Sample: 206362 - MW-32

Laboratory: Midland

Analysis: BTEX

QC Batch: 62680

Prep Batch: 53485

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0962	mg/L	1	0.100	96	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	49.8 - 130.8

Sample: 206363 - MW-33

Laboratory: Midland

Analysis: BTEX

QC Batch: 62691

Prep Batch: 53498

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0965	mg/L	1	0.100	96	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0916	mg/L	1	0.100	92	49.8 - 130.8

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Bob Durham

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Sample: 206364 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 62691
Prep Batch: 53498

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0960	mg/L	1	0.100	96	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0911	mg/L	1	0.100	91	49.8 - 130.8

Sample: 206365 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 62691
Prep Batch: 53498

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	49.8 - 130.8

Sample: 206366 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 62691
Prep Batch: 53498

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Report Date: August 20, 2009
TNM-LF-2000-7

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0921	mg/L	1	0.100	92	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0921	mg/L	1	0.100	92	49.8 - 130.8

Sample: 206367 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 62691
Prep Batch: 53498

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.115	mg/L	1	0.100	115	49.8 - 130.8

Sample: 206368 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 62691
Prep Batch: 53498

Analytical Method: S 8021B
Date Analyzed: 2009-08-19
Sample Preparation: 2009-08-19

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0131	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00890	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0921	mg/L	1	0.100	92	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	49.8 - 130.8

Sample: 206369 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 62691

Prep Batch: 53498

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0151	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0180	mg/L	1	0.00100
Xylene		0.0151	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0947	mg/L	1	0.100	95	87 - 105.2
4-Bromofluorobenzene (4-BFB)	³	0.139	mg/L	1	0.100	139	49.8 - 130.8

Sample: 206370 - MW-5

Laboratory: Midland

Analysis: BTEX

QC Batch: 62691

Prep Batch: 53498

Analytical Method: S 8021B

Date Analyzed: 2009-08-19

Sample Preparation: 2009-08-19

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0724	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.0180	mg/L	1	0.00100
Xylene		0.0267	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0946	mg/L	1	0.100	95	87 - 105.2
4-Bromofluorobenzene (4-BFB)		0.118	mg/L	1	0.100	118	49.8 - 130.8

³High surrogate recovery due to peak interference.

Report Date: August 20, 2009
TNM-LF-2000-7

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West of Monument, NM

Method Blank (1) QC Batch: 62680

QC Batch: 62680
Prep Batch: 53485

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.0926	mg/L	1	0.100	93	52.8 - 124.2

Method Blank (1) QC Batch: 62691

QC Batch: 62691
Prep Batch: 53498

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000500	mg/L	0.001
Xylene		<0.000400	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0992	mg/L	1	0.100	99	85.4 - 105.2
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	52.8 - 124.2

Laboratory Control Spike (LCS-1)

QC Batch: 62680
Prep Batch: 53485

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.101	mg/L	1	0.100	<0.00110	101	74.3 - 123.4
Toluene	0.100	mg/L	1	0.100	<0.00100	100	70.1 - 126.2
Ethylbenzene	0.0972	mg/L	1	0.100	<0.00100	97	68.6 - 124.7

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.291	mg/L	1	0.300	<0.00290	97	64.8 - 127.2

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	0.101	mg/L	1	0.100	<0.00110	101	74.3 - 123.4	0	20
Toluene	0.100	mg/L	1	0.100	<0.00100	100	70.1 - 126.2	0	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.00100	100	68.6 - 124.7	3	20
Xylene	0.301	mg/L	1	0.300	<0.00290	100	64.8 - 127.2	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)	0.0984	0.0958	mg/L	1	0.100	98	96	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.0993	0.0953	mg/L	1	0.100	99	95	51.7 - 134.7

Laboratory Control Spike (LCS-1)

QC Batch: 62691
Prep Batch: 53498

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.103	mg/L	1	0.100	<0.00110	103	74.3 - 123.4
Toluene	0.101	mg/L	1	0.100	<0.00100	101	70.1 - 126.2
Ethylbenzene	0.0976	mg/L	1	0.100	<0.00100	98	68.6 - 124.7
Xylene	0.292	mg/L	1	0.300	<0.00290	97	64.8 - 127.2

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	0.103	mg/L	1	0.100	<0.00110	103	74.3 - 123.4	0	20
Toluene	0.103	mg/L	1	0.100	<0.00100	103	70.1 - 126.2	2	20
Ethylbenzene	0.103	mg/L	1	0.100	<0.00100	103	68.6 - 124.7	5	20
Xylene	0.310	mg/L	1	0.300	<0.00290	103	64.8 - 127.2	6	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.100	0.0985	mg/L	1	0.100	100	98	84.8 - 110.8
4-Bromofluorobenzene (4-BFB)	0.101	0.105	mg/L	1	0.100	101	105	51.7 - 134.7

Matrix Spike (MS-1) Spiked Sample: 206073

QC Batch: 62680
Prep Batch: 53485

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	17.9	mg/L	100	10.0	6.8223	111	61 - 130
Toluene	10.9	mg/L	100	10.0	<0.100	109	69.2 - 121.4
Ethylbenzene	12.3	mg/L	100	10.0	1.6903	106	56.3 - 124.9
Xylene	32.6	mg/L	100	30.0	1.4058	104	60.2 - 122.9

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	17.5	mg/L	100	10.0	6.8223	107	61 - 130	2	20
Toluene	10.8	mg/L	100	10.0	<0.100	108	69.2 - 121.4	1	20
Ethylbenzene	12.4	mg/L	100	10.0	1.6903	107	56.3 - 124.9	1	20
Xylene	33.4	mg/L	100	30.0	1.4058	107	60.2 - 122.9	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)	9.66	10.1	mg/L	100	10	97	101	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	10.8	10.7	mg/L	100	10	108	107	53.7 - 127.3

Matrix Spike (MS-1) Spiked Sample: 206445

QC Batch: 62691
Prep Batch: 53498

Date Analyzed: 2009-08-19
QC Preparation: 2009-08-19

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	20.1	mg/L	50	5.00	14.5233	112	61 - 130
Toluene	18.7	mg/L	50	5.00	12.1245	132	69.2 - 121.4
Ethylbenzene	7.43	mg/L	50	5.00	1.8043	112	56.3 - 124.9
Xylene	20.8	mg/L	50	15.0	4.3404	110	60.2 - 122.9

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	20.3	mg/L	50	5.00	14.5233	116	61 - 130	1	20
Toluene	18.8	mg/L	50	5.00	12.1245	134	69.2 - 121.4	0	20

continued ...

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	8.00	mg/L	50	5.00	1.8043	124	56.3 - 124.9	7	20
Xylene	22.6	mg/L	50	15.0	4.3404	122	60.2 - 122.9	8	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)	4.86	4.88	mg/L	50	5	97	98	85.6 - 108.1
4-Bromofluorobenzene (4-BFB)	5.67	5.82	mg/L	50	5	113	116	53.7 - 127.3

Standard (CCV-1)

QC Batch: 62680

Date Analyzed: 2009-08-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.101	101	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.102	102	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.305	102	80 - 120	2009-08-19

Standard (CCV-2)

QC Batch: 62680

Date Analyzed: 2009-08-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.110	110	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.110	110	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.108	108	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.327	109	80 - 120	2009-08-19

Standard (CCV-3)

QC Batch: 62680

Date Analyzed: 2009-08-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.102	102	80 - 120	2009-08-19

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		mg/L	0.100	0.104	104	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.314	105	80 - 120	2009-08-19

Standard (CCV-1)

QC Batch: 62691

Date Analyzed: 2009-08-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.101	101	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.102	102	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.308	103	80 - 120	2009-08-19

Standard (CCV-2)

QC Batch: 62691

Date Analyzed: 2009-08-19

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.103	103	80 - 120	2009-08-19
Toluene		mg/L	0.100	0.103	103	80 - 120	2009-08-19
Ethylbenzene		mg/L	0.100	0.0993	99	80 - 120	2009-08-19
Xylene		mg/L	0.300	0.302	101	80 - 120	2009-08-19

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Company Name: Nola Phone #: 520-7720

Address: (Street, City, Zip) 2057 Commerce Fax #:

Contact Person: Ron Rounsaville E-mail:

Invoice to: Plains

If different from above

Project #: 77M-LF-2000-17

Project Location (including state): N.M.

Project Name: 13413 Durham

Sample Signatures: [Signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

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

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
3001	MW-31	3	1000 X	X				X				X		8-17	1330
3002	MW-32														1400
3003	MW-33														1430
3004	MW-37														1500
3005	MW-17														1530
3006	MW-6														1600
3007	MW-2														1630
3008	MW-38														1700
3009	MW-1														1730
3010	MW-5														1800

REMARKS: All tests - Midland.

LAB USE ONLY

Inoc: DN

Headspace: Y

Log-In/Review: Y

Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8/18/09</u>	Time: <u>11:25</u>	Temp °C: <u>55</u>
Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8/18/09</u>	Time: <u>11:25</u>	Temp °C: <u>55</u>
Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8/18/09</u>	Time: <u>11:25</u>	Temp °C: <u>55</u>

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

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

Carrier # Carry-in

ORIGINAL COPY



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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
NCTRCA WFWB38444Y0909

DBE: VN 20657

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: December 1, 2009

Work Order: 9111612



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
215008	MW-11	water	2009-11-12	07:00	2009-11-16
215009	MW-14	water	2009-11-12	07:45	2009-11-16
215010	MW-20	water	2009-11-12	08:30	2009-11-16
215011	MW-21	water	2009-11-12	09:15	2009-11-16
215012	MW-24	water	2009-11-12	10:00	2009-11-16
215013	MW-25	water	2009-11-12	10:45	2009-11-16
215014	MW-27	water	2009-11-12	11:30	2009-11-16
215015	MW-29	water	2009-11-12	12:15	2009-11-16
215016	MW-30	water	2009-11-12	13:00	2009-11-16
215017	MW-3	water	2009-11-12	13:45	2009-11-16

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
215018	MW-4	water	2009-11-12	14:30	2009-11-16
215019	MW-8	water	2009-11-12	15:15	2009-11-16
215020	MW-9	water	2009-11-12	16:00	2009-11-16
215021	MW-10	water	2009-11-12	16:45	2009-11-16
215022	MW-13	water	2009-11-12	17:30	2009-11-16
215023	MW-15	water	2009-11-12	18:15	2009-11-16
215024	MW-16	water	2009-11-12	19:00	2009-11-16
215025	MW-23	water	2009-11-13	07:00	2009-11-16
215026	MW-26	water	2009-11-13	07:45	2009-11-16
215027	MW-28	water	2009-11-13	08:30	2009-11-16
215028	MW-31	water	2009-11-13	09:15	2009-11-16
215029	MW-32	water	2009-11-13	10:00	2009-11-16
215030	MW-33	water	2009-11-13	10:45	2009-11-16
215031	MW-37	water	2009-11-13	11:30	2009-11-16
215032	MW-7	water	2009-11-13	12:15	2009-11-16
215033	MW-6	water	2009-11-13	13:00	2009-11-16
215034	MW-2	water	2009-11-13	13:45	2009-11-16
215035	MW-38	water	2009-11-13	14:30	2009-11-16
215036	MW-1	water	2009-11-13	15:15	2009-11-16
215037	MW-5	water	2009-11-13	16:00	2009-11-16
215038	MW-12	water	2009-11-13	16:45	2009-11-16
215039	Field Blank	water	2009-11-13	00:00	2009-11-16

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 65 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 Bob Durham were received by TraceAnalysis, Inc. on 2009-11-16 and assigned to work order 9111612. Samples for work order 9111612 were received intact without headspace and at a temperature of 3.8 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	55898	2009-11-18 at 15:00	65421	2009-11-18 at 13:32
BTEX	S 8021B	55970	2009-11-20 at 12:13	65503	2009-11-20 at 13:47
BTEX	S 8021B	55970	2009-11-20 at 12:13	65513	2009-11-21 at 07:42
PAH	S 8270C	55941	2009-11-18 at 15:00	65468	2009-11-20 at 13:43
PAH	S 8270C	55942	2009-11-19 at 15:00	65469	2009-11-20 at 13:47
PAH	S 8270C	55996	2009-11-20 at 15:00	65519	2009-11-23 at 13:49
TPH DRO - NEW	Mod. 8015B	55893	2009-11-18 at 13:26	65416	2009-11-18 at 13:26
TPH GRO	S 8015B	55970	2009-11-20 at 12:13	65521	2009-11-20 at 14:15

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 9111612 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

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Analytical Report

Sample: 215008 - MW-11

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0915	mg/L	1	0.100	92	68.1 - 118.8

Sample: 215008 - MW-11

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65468

Prep Batch: 55941

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-18

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200

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sample 215008 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0381	mg/L	0.926	0.0800	48	25.9 - 97.5
2-Fluorohiphenyl		0.0313	mg/L	0.926	0.0800	39	13.9 - 100
Terphenyl-d14		0.0438	mg/L	0.926	0.0800	55	37.7 - 114

Sample: 215009 - MW-14

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0878	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215009 - MW-14

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200

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sample 215009 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0314	mg/L	0.917	0.0800	39	25.9 - 97.5
2-Fluorobiphenyl		0.0289	mg/L	0.917	0.0800	36	13.9 - 100
Terphenyl-d14		0.0465	mg/L	0.917	0.0800	58	37.7 - 114

Sample: 215010 - MW-20

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0889	mg/L	1	0.100	89	68.1 - 118.8

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Sample: 215010 - MW-20

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65468

Prep Batch: 55941

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-18

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Naphthalene		<0.000183		mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183		mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183		mg/L	0.917	0.000200
Acenaphthylene		<0.000183		mg/L	0.917	0.000200
Acenaphthene		<0.000183		mg/L	0.917	0.000200
Dibenzofuran		<0.000183		mg/L	0.917	0.000200
Fluorene		<0.000183		mg/L	0.917	0.000200
Anthracene		<0.000183		mg/L	0.917	0.000200
Phenanthrene		<0.000183		mg/L	0.917	0.000200
Fluoranthene		<0.000183		mg/L	0.917	0.000200
Pyrene		<0.000183		mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183		mg/L	0.917	0.000200
Chrysene		<0.000183		mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183		mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183		mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183		mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183		mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183		mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183		mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0576	mg/L	0.917	0.0800	72	25.9 - 97.5
2-Fluorobiphenyl		0.0502	mg/L	0.917	0.0800	63	13.9 - 100
Terphenyl-d14		0.0561	mg/L	0.917	0.0800	70	37.7 - 114

Sample: 215011 - MW-21

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL		Units	Dilution	RL
		Result				
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100

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sample 215011 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0884	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215011 - MW-21

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0574	mg/L	0.922	0.0800	72	25.9 - 97.5
2-Fluorobiphenyl		0.0472	mg/L	0.922	0.0800	59	13.9 - 100
Terphenyl-d14		0.0553	mg/L	0.922	0.0800	69	37.7 - 114

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Sample: 215012 - MW-24

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0887	mg/L	1	0.100	89	68.1 - 118.8

Sample: 215012 - MW-24

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65468

Prep Batch: 55941

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-18

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 215012 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0508	mg/L	0.917	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0384	mg/L	0.917	0.0800	48	13.9 - 100
Terphenyl-d14		0.0529	mg/L	0.917	0.0800	66	37.7 - 114

Sample: 215013 - MW-25

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0913	mg/L	1	0.100	91	68.1 - 118.8

Sample: 215013 - MW-25

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 215013 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0398	mg/L	0.922	0.0800	50	25.9 - 97.5
2-Fluorobiphenyl		0.0355	mg/L	0.922	0.0800	44	13.9 - 100
Terphenyl-d14		0.0593	mg/L	0.922	0.0800	74	37.7 - 114

Sample: 215014 - MW-27

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0909	mg/L	1	0.100	91	68.1 - 118.8

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Sample: 215014 - MW-27

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65468

Prep Batch: 55941

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-18

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0405	mg/L	0.922	0.0800	51	25.9 - 97.5
2-Fluorobiphenyl		0.0347	mg/L	0.922	0.0800	43	13.9 - 100
Terphenyl-d14		0.0496	mg/L	0.922	0.0800	62	37.7 - 114

Sample: 215015 - MW-29

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

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sample 215015 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0911	mg/L	1	0.100	91	68.1 - 118.8

Sample: 215015 - MW-29

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0366	mg/L	0.917	0.0800	46	25.9 - 97.5
2-Fluorobiphenyl		0.0297	mg/L	0.917	0.0800	37	13.9 - 100
Terphenyl-d14		0.0538	mg/L	0.917	0.0800	67	37.7 - 114

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Sample: 215016 - MW-30

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0881	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215016 - MW-30

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

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sample 215016 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0417	mg/L	0.922	0.0800	52	25.9 - 97.5
2-FluorobipheuyI		0.0414	mg/L	0.922	0.0800	52	13.9 - 100
Terphenyl-d14		0.0531	mg/L	0.922	0.0800	66	37.7 - 114

Sample: 215017 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0904	mg/L	1	0.100	90	68.1 - 118.8

Sample: 215017 - MW-3

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65468
Prep Batch: 55941

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-18

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 215017 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0396	mg/L	0.922	0.0800	50	25.9 - 97.5
2-Fluorobiphenyl		0.0344	mg/L	0.922	0.0800	43	13.9 - 100
Terphenyl-d14		0.0469	mg/L	0.922	0.0800	59	37.7 - 114

Sample: 215018 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00130	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0932	mg/L	1	0.100	93	68.1 - 118.8

Sample: 215018 - MW-4

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		0.000962	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0510	mg/L	0.922	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0499	mg/L	0.922	0.0800	62	13.9 - 100
Terphenyl-d14		0.0514	mg/L	0.922	0.0800	64	37.7 - 114

Sample: 215019 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

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sample 215019 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0891	mg/L	1	0.100	89	68.1 - 118.8

Sample: 215019 - MW-8

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		0.00198	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0516	mg/L	0.917	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0375	mg/L	0.917	0.0800	47	13.9 - 100
Terphenyl-d14		0.0507	mg/L	0.917	0.0800	63	37.7 - 114

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Sample: 215020 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215020 - MW-9

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 215020 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0523	mg/L	0.917	0.0800	65	25.9 - 97.5
2-Fluorobiphenyl		0.0427	mg/L	0.917	0.0800	53	13.9 - 100
Terphenyl-d14		0.0551	mg/L	0.917	0.0800	69	37.7 - 114

Sample: 215021 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 65421
Prep Batch: 55898

Analytical Method: S 8021B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0885	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215021 - MW-10

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 215021 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0368	mg/L	0.917	0.0800	46	25.9 - 97.5
2-Fluorobiphenyl		0.0348	mg/L	0.917	0.0800	44	13.9 - 100
Terphenyl-d14		0.0474	mg/L	0.917	0.0800	59	37.7 - 114

Sample: 215022 - MW-13

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0101	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	68.1 - 118.8

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Sample: 215022 - MW-13

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		0.00276	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.000500	mg/L	0.922	0.000200
Fluorene		0.000700	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0455	mg/L	0.922	0.0800	57	25.9 - 97.5
2-Fluorobiphenyl		0.0366	mg/L	0.922	0.0800	46	13.9 - 100
Terphenyl-d14		0.0509	mg/L	0.922	0.0800	64	37.7 - 114

Sample: 215023 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 65421

Prep Batch: 55898

Analytical Method: S 8021B

Date Analyzed: 2009-11-18

Sample Preparation: 2009-11-18

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

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sample 215023 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0886	mg/L	1	0.100	89	68.1 - 118.8

Sample: 215023 - MW-15

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0444	mg/L	0.917	0.0800	56	25.9 - 97.5
2-Fluorobiphenyl		0.0393	mg/L	0.917	0.0800	49	13.9 - 100
Terphenyl-d14		0.0532	mg/L	0.917	0.0800	66	37.7 - 114

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Sample: 215024 - MW-16

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0987	mg/L	1	0.100	99	68.1 - 118.8

Sample: 215024 - MW-16

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Naphthalene		0.000754	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		0.00384	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		0.00120	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		0.000459	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200

continued ...

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sample 215024 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0478	mg/L	0.926	0.0800	60	25.9 - 97.5
2-Fluorobiphenyl		0.0390	mg/L	0.926	0.0800	49	13.9 - 100
Terphenyl-d14		0.0521	mg/L	0.926	0.0800	65	37.7 - 114

Sample: 215025 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 65503
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0883	mg/L	1	0.100	88	68.1 - 118.8

Sample: 215025 - MW-23

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200

continued ...

sample 215025 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0418	mg/L	0.922	0.0800	52	25.9 - 97.5
2-Fluorobiphenyl		0.0337	mg/L	0.922	0.0800	42	13.9 - 100
Terphenyl-d14		0.0431	mg/L	0.922	0.0800	54	37.7 - 114

Sample: 215026 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 65503
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0896	mg/L	1	0.100	90	68.1 - 118.8

Sample: 215026 - MW-26

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000185	mg/L	0.926	0.000200
2-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
1-Methylnaphthalene		<0.000185	mg/L	0.926	0.000200
Acenaphthylene		<0.000185	mg/L	0.926	0.000200
Acenaphthene		<0.000185	mg/L	0.926	0.000200
Dibenzofuran		<0.000185	mg/L	0.926	0.000200
Fluorene		<0.000185	mg/L	0.926	0.000200
Anthracene		<0.000185	mg/L	0.926	0.000200
Phenanthrene		<0.000185	mg/L	0.926	0.000200
Fluoranthene		<0.000185	mg/L	0.926	0.000200
Pyrene		<0.000185	mg/L	0.926	0.000200
Benzo(a)anthracene		<0.000185	mg/L	0.926	0.000200
Chrysene		<0.000185	mg/L	0.926	0.000200
Benzo(b)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(k)fluoranthene		<0.000185	mg/L	0.926	0.000200
Benzo(a)pyrene		<0.000185	mg/L	0.926	0.000200
Indeno(1,2,3-cd)pyrene		<0.000185	mg/L	0.926	0.000200
Dibenzo(a,h)anthracene		<0.000185	mg/L	0.926	0.000200
Benzo(g,h,i)perylene		<0.000185	mg/L	0.926	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0487	mg/L	0.926	0.0800	61	25.9 - 97.5
2-Fluorobiphenyl		0.0402	mg/L	0.926	0.0800	50	13.9 - 100
Terphenyl-d14		0.0529	mg/L	0.926	0.0800	66	37.7 - 114

Sample: 215027 - MW-28

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 215027 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0870	mg/L	1	0.100	87	68.1 - 118.8

Sample: 215027 - MW-28

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0466	mg/L	0.917	0.0800	58	25.9 - 97.5
2-Fluorobiphenyl		0.0374	mg/L	0.917	0.0800	47	13.9 - 100
Terphenyl-d14		0.0528	mg/L	0.917	0.0800	66	37.7 - 114

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Sample: 215028 - MW-31

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0868	mg/L	1	0.100	87	68.1 - 118.8

Sample: 215028 - MW-31

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 215028 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0499	mg/L	0.917	0.0800	62	25.9 - 97.5
2-Fluorobiphenyl		0.0410	mg/L	0.917	0.0800	51	13.9 - 100
Terphenyl-d14		0.0490	mg/L	0.917	0.0800	61	37.7 - 114

Sample: 215029 - MW-32

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0897	mg/L	1	0.100	90	68.1 - 118.8

Sample: 215029 - MW-32

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200

continued ...

sample 215029 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0368	mg/L	0.917	0.0800	46	25.9 - 97.5
2-Fluorobiphenyl		0.0343	mg/L	0.917	0.0800	43	13.9 - 100
Terphenyl-d14		0.0408	mg/L	0.917	0.0800	51	37.7 - 114

Sample: 215030 - MW-33

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0893	mg/L	1	0.100	89	68.1 - 118.8

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Sample: 215030 - MW-33

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0382	mg/L	0.917	0.0800	48	25.9 - 97.5
2-Fluorobiphenyl		0.0324	mg/L	0.917	0.0800	40	13.9 - 100
Terphenyl-d14		0.0415	mg/L	0.917	0.0800	52	37.7 - 114

Sample: 215031 - MW-37

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

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sample 215031 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0865	mg/L	1	0.100	86	68.1 - 118.8

Sample: 215031 - MW-37

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000184	mg/L	0.922	0.000200
2-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
1-Methylnaphthalene		<0.000184	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		<0.000184	mg/L	0.922	0.000200
Fluorene		<0.000184	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0382	mg/L	0.922	0.0800	48	25.9 - 97.5
2-Fluorobiphenyl		0.0313	mg/L	0.922	0.0800	39	13.9 - 100
Terphenyl-d14		0.0390	mg/L	0.922	0.0800	49	37.7 - 114

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Sample: 215032 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 65503

Prep Batch: 55970

Analytical Method: S 8021B

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-20

Prep Method: S 5030B

Analyzed By: tn

Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0891	mg/L	1	0.100	89	68.1 - 118.8

Sample: 215032 - MW-7

Laboratory: Lubbock

Analysis: PAH

QC Batch: 65469

Prep Batch: 55942

Analytical Method: S 8270C

Date Analyzed: 2009-11-20

Sample Preparation: 2009-11-19

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		0.000658	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200

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sample 215032 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0762	mg/L	0.917	0.0800	95	25.9 - 97.5
2-Fluorobiphenyl		0.0703	mg/L	0.917	0.0800	88	13.9 - 100
Terphenyl-d14		0.0757	mg/L	0.917	0.0800	95	37.7 - 114

Sample: 215033 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 65503
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0935	mg/L	1	0.100	94	68.1 - 118.8

Sample: 215033 - MW-6

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		0.000610	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200

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sample 215033 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0539	mg/L	0.917	0.0800	67	25.9 - 97.5
2-Fluorobiphenyl		0.0503	mg/L	0.917	0.0800	63	13.9 - 100
Terphenyl-d14		0.0582	mg/L	0.917	0.0800	73	37.7 - 114

Sample: 215034 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 65503
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00830	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	68.1 - 118.8

Sample: 215034 - MW-2

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00505	mg/L	0.922	0.000200
2-Methylnaphthalene		0.00390	mg/L	0.922	0.000200
1-Methylnaphthalene		0.00838	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00161	mg/L	0.922	0.000200
Fluorene		0.00220	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.000670	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0612	mg/L	0.922	0.0800	76	25.9 - 97.5
2-Fluorobiphenyl		0.0489	mg/L	0.922	0.0800	61	13.9 - 100
Terphenyl-d14		0.0537	mg/L	0.922	0.0800	67	37.7 - 114

Sample: 215035 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 65513
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-21
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0181	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100

continued ...

sample 215035 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		0.00100	mg/L	1	0.00100
Xylene		0.00630	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.0986	mg/L	1	0.100	99	68.1 - 118.8

Sample: 215035 - MW-38

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00173	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		0.00835	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		0.00247	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		0.00216	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0464	mg/L	0.917	0.0800	58	25.9 - 97.5
2-Fluorobiphenyl		0.0469	mg/L	0.917	0.0800	59	13.9 - 100
Terphenyl-d14		0.0562	mg/L	0.917	0.0800	70	37.7 - 114

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Sample: 215036 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 65513
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-21
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0391	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00440	mg/L	1	0.00100
Xylene		0.00110	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.111	mg/L	1	0.100	111	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)	¹	0.121	mg/L	1	0.100	121	68.1 - 118.8

Sample: 215036 - MW-1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65469
Prep Batch: 55942

Analytical Method: S 8270C
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0192	mg/L	0.917	0.000200
2-Methylnaphthalene		0.0289	mg/L	0.917	0.000200
1-Methylnaphthalene		0.0325	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		0.00192	mg/L	0.917	0.000200
Fluorene		0.00262	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		0.00220	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

¹High surrogate recovery due to peak interference.

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sample 215037 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0510	mg/L	0.917	0.0800	64	25.9 - 97.5
2-Fluorobiphenyl		0.0449	mg/L	0.917	0.0800	56	13.9 - 100
Terpbenyl-d14		0.0534	mg/L	0.917	0.0800	67	37.7 - 114

Sample: 215038 - MW-12

Laboratory: Midland
Analysis: BTEX
QC Batch: 65503
Prep Batch: 55970

Analytical Method: S 8021B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: tn
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0103	mg/L	10	0.00100
Toluene		<0.0100	mg/L	10	0.00100
Ethylbenzene		0.0224	mg/L	10	0.00100
Xylene		<0.0100	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/L	10	1.00	104	70.9 - 119.8
4-Bromofluorobenzene (4-BFB)		0.919	mg/L	10	1.00	92	68.1 - 118.8

Sample: 215038 - MW-12

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65519
Prep Batch: 55996

Analytical Method: S 8270C
Date Analyzed: 2009-11-23
Sample Preparation: 2009-11-20

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.0233	mg/L	0.922	0.000200
2-Methylnaphthalene		0.0414	mg/L	0.922	0.000200
1-Methylnaphthalene		0.0507	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.00380	mg/L	0.922	0.000200
Fluorene		0.00498	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.00620	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0427	mg/L	0.922	0.0800	53	25.9 - 97.5
2-Fluorobiphenyl		0.0439	mg/L	0.922	0.0800	55	13.9 - 100
Terphenyl-d14		0.0569	mg/L	0.922	0.0800	71	37.7 - 114

Sample: 215038 - MW-12

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 65416
Prep Batch: 55893

Analytical Method: Mod. 8015B
Date Analyzed: 2009-11-18
Sample Preparation: 2009-11-18

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

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		35.1	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		11.3	mg/L	1	10.0	113	70 - 130

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Sample: 215038 - MW-12

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 65521
Prep Batch: 55970

Analytical Method: S 8015B
Date Analyzed: 2009-11-20
Sample Preparation: 2009-11-20

Prep Method: S 5030B
Analyzed By: AG
Prepared By: tn

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/L	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.06	mg/L	10	1.00	106	69.8 - 110.2
4-Bromofluorobenzene (4-BFB)		0.954	mg/L	10	1.00	95	65.4 - 118.8

Sample: 215039 - Field Blank

Laboratory: Lubbock
Analysis: PAH
QC Batch: 65519
Prep Batch: 55996

Analytical Method: S 8270C
Date Analyzed: 2009-11-23
Sample Preparation: 2009-11-20

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
1-Methylnaphthalene		<0.000183	mg/L	0.917	0.000200
Acenaphthylene		<0.000183	mg/L	0.917	0.000200
Acenaphthene		<0.000183	mg/L	0.917	0.000200
Dibenzofuran		<0.000183	mg/L	0.917	0.000200
Fluorene		<0.000183	mg/L	0.917	0.000200
Anthracene		<0.000183	mg/L	0.917	0.000200
Phenanthrene		<0.000183	mg/L	0.917	0.000200
Fluoranthene		<0.000183	mg/L	0.917	0.000200
Pyrene		<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene		<0.000183	mg/L	0.917	0.000200
Chrysene		<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene		<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene		<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene		<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene		<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene		<0.000183	mg/L	0.917	0.000200

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0336	mg/L	0.917	0.0800	42	25.9 - 97.5
2-Fluorobiphenyl		0.0196	mg/L	0.917	0.0800	24	13.9 - 100
Terphenyl-d14		0.0465	mg/L	0.917	0.0800	58	37.7 - 114

Method Blank (1) QC Batch: 65416

QC Batch: 65416
Prep Batch: 55893

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: kg
Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<0.801	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		8.75	mg/L	1	10.0	88	70 - 130

Method Blank (1) QC Batch: 65421

QC Batch: 65421
Prep Batch: 55898

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	73.6 - 116.6
4-Bromofluorobenzene (4-BFB)		0.0892	mg/L	1	0.100	89	70.6 - 107.5

Method Blank (1) QC Batch: 65468

QC Batch: 65468
Prep Batch: 55941

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-18

Analyzed By: MN
Prepared By: MN

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Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0500	mg/L	1	0.0800	62	25.9 - 97.5
2-Fluorobiphenyl		0.0463	mg/L	1	0.0800	58	13.9 - 100
Terphenyl-d14		0.0528	mg/L	1	0.0800	66	37.7 - 114

Method Blank (1) QC Batch: 65469

QC Batch: 65469
Prep Batch: 55942

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-19

Analyzed By: MN
Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0431	mg/L	1	0.0800	54	25.9 - 97.5
2-Fluorobiphenyl		0.0354	mg/L	1	0.0800	44	13.9 - 100
Terphenyl-d14		0.0534	mg/L	1	0.0800	67	37.7 - 114

Method Blank (1) QC Batch: 65503

QC Batch: 65503
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	73.6 - 116.6
4-Bromofluorobenzene (4-BFB)		0.0899	mg/L	1	0.100	90	70.6 - 107.5

Method Blank (1) QC Batch: 65513

QC Batch: 65513
Prep Batch: 55970

Date Analyzed: 2009-11-21
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001

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Parameter	Flag	MDL Result	Units	RL
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	73.6 - 116.6
4-Bromofluorobenzene (4-BFB)		0.0869	mg/L	1	0.100	87	70.6 - 107.5

Method Blank (1) QC Batch: 65519

QC Batch: 65519
Prep Batch: 55996

Date Analyzed: 2009-11-23
QC Preparation: 2009-11-20

Analyzed By: MN
Prepared By: MN

Parameter	Flag	MDL Result	Units	RL
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0456	mg/L	1	0.0800	57	25.9 - 97.5
2-Fluorobiphenyl		0.0385	mg/L	1	0.0800	48	13.9 - 100
Terphenyl-d14		0.0671	mg/L	1	0.0800	84	37.7 - 114

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Method Blank (1) QC Batch: 65521

QC Batch: 65521
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: AG
Prepared By: tn

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0462	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	58.6 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0895	mg/L	1	0.100	90	43 - 130.8

Laboratory Control Spike (LCS-1)

QC Batch: 65416
Prep Batch: 55893

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	21.9	mg/L	1	25.0	<0.801	88	70 - 130

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	22.1	mg/L	1	25.0	<0.801	88	70 - 130	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	10.1	10.2	mg/L	1	10.0	101	102	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 65421
Prep Batch: 55898

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0975	mg/L	1	0.100	<0.000300	98	79.4 - 111.8
Toluene	0.0965	mg/L	1	0.100	<0.000200	96	79.3 - 110
Ethylbenzene	0.0944	mg/L	1	0.100	<0.000200	94	73.8 - 113.1
Xylene	0.282	mg/L	1	0.300	<0.000900	94	73.9 - 113.6

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0969	mg/L	1	0.100	<0.000300	97	79.4 - 111.8	1	20
Toluene	0.0962	mg/L	1	0.100	<0.000200	96	79.3 - 110	0	20
Ethylbenzene	0.0945	mg/L	1	0.100	<0.000200	94	73.8 - 113.1	0	20
Xylene	0.283	mg/L	1	0.300	<0.000900	94	73.9 - 113.6	0	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.107	0.106	mg/L	1	0.100	107	106	76.2 - 119.6
4-Bromofluorobenzene (4-BFB)	0.0944	0.0944	mg/L	1	0.100	94	94	77.9 - 109.8

Laboratory Control Spike (LCS-1)

QC Batch: 65468
Prep Batch: 55941

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-18

Analyzed By: MN
Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0526	mg/L	1	0.0800	<0.0000784	66	22.2 - 87.9
2-Methylnaphthalene	0.0552	mg/L	1	0.0800	<0.0000747	69	23.3 - 86.1
1-Methylnaphthalene	0.0577	mg/L	1	0.0800	<0.0000575	72	24.6 - 87.8
Acenaphthylene	0.0552	mg/L	1	0.0800	<0.0000963	69	27.4 - 114
Acenaphthene	0.0553	mg/L	1	0.0800	<0.0000617	69	27.2 - 111
Dibenzofuran	0.0515	mg/L	1	0.0800	<0.0000952	64	27.3 - 100
Fluorene	0.0602	mg/L	1	0.0800	<0.000134	75	31.5 - 122
Anthracene	0.0570	mg/L	1	0.0800	<0.000441	71	32.4 - 115
Phenanthrene	0.0573	mg/L	1	0.0800	<0.000435	72	34.2 - 111
Fluoranthene	0.0637	mg/L	1	0.0800	<0.000476	80	40.1 - 114
Pyrene	0.0550	mg/L	1	0.0800	<0.000590	69	39.2 - 124
Benzo(a)anthracene	0.0515	mg/L	1	0.0800	<0.000118	64	39.4 - 114
Chrysene	0.0613	mg/L	1	0.0800	<0.0000766	77	38.2 - 116
Benzo(b)fluoranthene	0.0509	mg/L	1	0.0800	<0.000146	64	34.5 - 118
Benzo(k)fluoranthene	0.0938	mg/L	1	0.0800	<0.000141	117	38.7 - 133
Benzo(a)pyrene	0.0812	mg/L	1	0.0800	<0.000132	102	38 - 134
Indeno(1,2,3-cd)pyrene	0.0618	mg/L	1	0.0800	<0.0000702	77	34.6 - 124
Dibenzo(a,h)anthracene	0.0592	mg/L	1	0.0800	<0.0000534	74	33.9 - 120
Benzo(g,h,i)perylene	0.0668	mg/L	1	0.0800	<0.0000473	84	33.8 - 138

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0507	mg/L	1	0.0800	<0.0000784	63	22.2 - 87.9	4	20

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
2-Methylnaphthalene	0.0531	mg/L	1	0.0800	<0.0000747	66	23.3 - 86.1	4	20
1-Methylnaphthalene	0.0542	mg/L	1	0.0800	<0.0000575	68	24.6 - 87.8	6	20
Acenaphthylene	0.0545	mg/L	1	0.0800	<0.0000963	68	27.4 - 114	1	20
Acenaphthene	0.0555	mg/L	1	0.0800	<0.0000617	69	27.2 - 111	0	20
Dibenzofuran	0.0507	mg/L	1	0.0800	<0.0000952	63	27.3 - 100	2	20
Fluorene	0.0585	mg/L	1	0.0800	<0.000134	73	31.5 - 122	3	20
Anthracene	0.0545	mg/L	1	0.0800	<0.000441	68	32.4 - 115	4	20
Phenanthrene	0.0545	mg/L	1	0.0800	<0.000435	68	34.2 - 111	5	20
Fluoranthene	0.0612	mg/L	1	0.0800	<0.000476	76	40.1 - 114	4	20
Pyrene	0.0544	mg/L	1	0.0800	<0.000590	68	39.2 - 124	1	20
Benzo(a)anthracene	0.0530	mg/L	1	0.0800	<0.000118	66	39.4 - 114	3	20
Chrysene	0.0612	mg/L	1	0.0800	<0.0000766	76	38.2 - 116	0	20
Benzo(b)fluoranthene	2 0.0629	mg/L	1	0.0800	<0.000146	79	34.5 - 118	21	20
Benzo(k)fluoranthene	0.0847	mg/L	1	0.0800	<0.000141	106	38.7 - 133	10	20
Benzo(a)pyrene	0.0762	mg/L	1	0.0800	<0.000132	95	38 - 134	6	20
Indeno(1,2,3-cd)pyrene	0.0617	mg/L	1	0.0800	<0.0000702	77	34.6 - 124	0	20
Dibenzo(a,h)anthracene	0.0572	mg/L	1	0.0800	<0.0000534	72	33.9 - 120	3	20
Benzo(g,h,i)perylene	0.0606	mg/L	1	0.0800	<0.0000473	76	33.8 - 138	10	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0531	0.0541	mg/L	1	0.0800	66	68	25.9 - 97.5
2-Fluorobiphenyl	0.0456	0.0470	mg/L	1	0.0800	57	59	13.9 - 100
Terphenyl-d14	0.0500	0.0505	mg/L	1	0.0800	62	63	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 65469
Prep Batch: 55942

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-19

Analyzed By: MN
Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0517	mg/L	1	0.0800	<0.0000784	65	22.2 - 87.9
2-Methylnaphthalene	0.0560	mg/L	1	0.0800	<0.0000747	70	23.3 - 86.1
1-Methylnaphthalene	0.0571	mg/L	1	0.0800	<0.0000575	71	24.6 - 87.8
Acenaphthylene	0.0564	mg/L	1	0.0800	<0.0000963	70	27.4 - 114
Acenaphthene	0.0564	mg/L	1	0.0800	<0.0000617	70	27.2 - 111
Dibenzofuran	0.0534	mg/L	1	0.0800	<0.0000952	67	27.3 - 100
Fluorene	0.0618	mg/L	1	0.0800	<0.000134	77	31.5 - 122
Anthracene	0.0524	mg/L	1	0.0800	<0.000441	66	32.4 - 115

continued ...

²RPD outside control limits. Reportable concentrations considered estimated values. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenanthrene	0.0529	mg/L	1	0.0800	<0.000435	66	34.2 - 111
Fluoranthene	0.0586	mg/L	1	0.0800	<0.000476	73	40.1 - 114
Pyrene	0.0521	mg/L	1	0.0800	<0.000590	65	39.2 - 124
Benzo(a)anthracene	0.0489	mg/L	1	0.0800	<0.000118	61	39.4 - 114
Chrysene	0.0575	mg/L	1	0.0800	<0.0000766	72	38.2 - 116
Benzo(b)fluoranthene	0.0627	mg/L	1	0.0800	<0.000146	78	34.5 - 118
Benzo(k)fluoranthene	0.0798	mg/L	1	0.0800	<0.000141	100	38.7 - 133
Benzo(a)pyrene	0.0744	mg/L	1	0.0800	<0.000132	93	38 - 134
Indeno(1,2,3-cd)pyrene	0.0553	mg/L	1	0.0800	<0.0000702	69	34.6 - 124
Dibenzo(a,h)anthracene	0.0570	mg/L	1	0.0800	<0.0000534	71	33.9 - 120
Benzo(g,h,i)perylene	0.0566	mg/L	1	0.0800	<0.0000473	71	33.8 - 138

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene	0.0490	mg/L	1	0.0800	<0.0000784	61	22.2 - 87.9	5	20
2-Methylnaphthalene	0.0523	mg/L	1	0.0800	<0.0000747	65	23.3 - 86.1	7	20
1-Methylnaphthalene	0.0550	mg/L	1	0.0800	<0.0000575	69	24.6 - 87.8	4	20
Acenaphthylene	0.0564	mg/L	1	0.0800	<0.0000963	70	27.4 - 114	0	20
Acenaphthene	0.0556	mg/L	1	0.0800	<0.0000617	70	27.2 - 111	1	20
Dibenzofuran	0.0527	mg/L	1	0.0800	<0.0000952	66	27.3 - 100	1	20
Fluorene	0.0611	mg/L	1	0.0800	<0.000134	76	31.5 - 122	1	20
Anthracene	0.0513	mg/L	1	0.0800	<0.000441	64	32.4 - 115	2	20
Phenanthrene	0.0526	mg/L	1	0.0800	<0.000435	66	34.2 - 111	1	20
Fluoranthene	0.0573	mg/L	1	0.0800	<0.000476	72	40.1 - 114	2	20
Pyrene	0.0501	mg/L	1	0.0800	<0.000590	63	39.2 - 124	4	20
Benzo(a)anthracene	0.0478	mg/L	1	0.0800	<0.000118	60	39.4 - 114	2	20
Chrysene	0.0553	mg/L	1	0.0800	<0.0000766	69	38.2 - 116	4	20
Benzo(b)fluoranthene	0.0591	mg/L	1	0.0800	<0.000146	74	34.5 - 118	6	20
Benzo(k)fluoranthene	0.0694	mg/L	1	0.0800	<0.000141	87	38.7 - 133	14	20
Benzo(a)pyrene	0.0671	mg/L	1	0.0800	<0.000132	84	38 - 134	10	20
Indeno(1,2,3-cd)pyrene	0.0500	mg/L	1	0.0800	<0.0000702	62	34.6 - 124	10	20
Dibenzo(a,h)anthracene	0.0494	mg/L	1	0.0800	<0.0000534	62	33.9 - 120	14	20
Benzo(g,h,i)perylene	0.0535	mg/L	1	0.0800	<0.0000473	67	33.8 - 138	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0566	0.0537	mg/L	1	0.0800	71	67	25.9 - 97.5
2-Fluorobiphenyl	0.0494	0.0487	mg/L	1	0.0800	62	61	13.9 - 100
Terphenyl-d14	0.0512	0.0485	mg/L	1	0.0800	64	61	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 65503
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0838	mg/L	1	0.100	<0.000300	84	79.4 - 111.8
Toluene	0.0830	mg/L	1	0.100	<0.000200	83	79.3 - 110
Ethylbenzene	0.0805	mg/L	1	0.100	<0.000200	80	73.8 - 113.1
Xylene	0.241	mg/L	1	0.300	<0.000900	80	73.9 - 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	0.0917	mg/L	1	0.100	<0.000300	92	79.4 - 111.8	9	20
Toluene	0.0905	mg/L	1	0.100	<0.000200	90	79.3 - 110	9	20
Ethylbenzene	0.0882	mg/L	1	0.100	<0.000200	88	73.8 - 113.1	9	20
Xylene	0.264	mg/L	1	0.300	<0.000900	88	73.9 - 113.6	9	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.107	0.104	mg/L	1	0.100	107	104	76.2 - 119.6
4-Bromofluorobenzene (4-BFB)	0.0950	0.0930	mg/L	1	0.100	95	93	77.9 - 109.8

Laboratory Control Spike (LCS-1)

QC Batch: 65513
Prep Batch: 55970

Date Analyzed: 2009-11-21
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0904	mg/L	1	0.100	<0.000300	90	79.4 - 111.8
Toluene	0.0889	mg/L	1	0.100	<0.000200	89	79.3 - 110
Ethylbenzene	0.0878	mg/L	1	0.100	<0.000200	88	73.8 - 113.1
Xylene	0.261	mg/L	1	0.300	<0.000900	87	73.9 - 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	0.0918	mg/L	1	0.100	<0.000300	92	79.4 - 111.8	2	20
Toluene	0.0902	mg/L	1	0.100	<0.000200	90	79.3 - 110	1	20
Ethylbenzene	0.0893	mg/L	1	0.100	<0.000200	89	73.8 - 113.1	2	20
Xylene	0.267	mg/L	1	0.300	<0.000900	89	73.9 - 113.6	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)	0.103	0.102	mg/L	1	0.100	103	102	76.2 - 119.6
4-Bromofluorobenzene (4-BFB)	0.0908	0.0921	mg/L	1	0.100	91	92	77.9 - 109.8

Laboratory Control Spike (LCS-1)

QC Batch: 65519
Prep Batch: 55996

Date Analyzed: 2009-11-23
QC Preparation: 2009-11-20

Analyzed By: MN
Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0558	mg/L	1	0.0800	<0.0000784	70	22.2 - 87.9
2-Methylnaphthalene	0.0583	mg/L	1	0.0800	<0.0000747	73	23.3 - 86.1
1-Methylnaphthalene	0.0609	mg/L	1	0.0800	<0.0000575	76	24.6 - 87.8
Acenaphthylene	0.0612	mg/L	1	0.0800	<0.0000963	76	27.4 - 114
Acenaphthene	0.0609	mg/L	1	0.0800	<0.0000617	76	27.2 - 111
Dibenzofuran	0.0580	mg/L	1	0.0800	<0.0000952	72	27.3 - 100
Fluorene	0.0658	mg/L	1	0.0800	<0.000134	82	31.5 - 122
Anthracene	0.0605	mg/L	1	0.0800	<0.000441	76	32.4 - 115
Phenanthrene	0.0605	mg/L	1	0.0800	<0.000435	76	34.2 - 111
Fluoranthene	0.0678	mg/L	1	0.0800	<0.000476	85	40.1 - 114
Pyrene	0.0626	mg/L	1	0.0800	<0.000590	78	39.2 - 124
Benzo(a)anthracene	0.0604	mg/L	1	0.0800	<0.000118	76	39.4 - 114
Chrysene	0.0684	mg/L	1	0.0800	<0.0000766	86	38.2 - 116
Benzo(b)fluoranthene	0.0577	mg/L	1	0.0800	<0.000146	72	34.5 - 118
Benzo(k)fluoranthene	0.0874	mg/L	1	0.0800	<0.000141	109	38.7 - 133
Benzo(a)pyrene	0.0905	mg/L	1	0.0800	<0.000132	113	38 - 134
Indeno(1,2,3-cd)pyrene	0.0723	mg/L	1	0.0800	<0.0000702	90	34.6 - 124
Dibenzo(a,h)anthracene	0.0705	mg/L	1	0.0800	<0.0000534	88	33.9 - 120
Benzo(g,h,i)perylene	0.0703	mg/L	1	0.0800	<0.0000473	88	33.8 - 138

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
Naphthalene	0.0530	mg/L	1	0.0800	<0.0000784	66	22.2 - 87.9	5	20
2-Methylnaphthalene	0.0551	mg/L	1	0.0800	<0.0000747	69	23.3 - 86.1	6	20
1-Methylnaphthalene	0.0573	mg/L	1	0.0800	<0.0000575	72	24.6 - 87.8	6	20
Acenaphthylene	0.0582	mg/L	1	0.0800	<0.0000963	73	27.4 - 114	5	20
Acenaphthene	0.0573	mg/L	1	0.0800	<0.0000617	72	27.2 - 111	6	20
Dibenzofuran	0.0552	mg/L	1	0.0800	<0.0000952	69	27.3 - 100	5	20
Fluorene	0.0627	mg/L	1	0.0800	<0.000134	78	31.5 - 122	5	20
Anthracene	0.0584	mg/L	1	0.0800	<0.000441	73	32.4 - 115	4	20
Phenanthrene	0.0582	mg/L	1	0.0800	<0.000435	73	34.2 - 111	4	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoranthene	0.0654	mg/L	1	0.0800	<0.000476	82	40.1 - 114	4	20
Pyrene	0.0584	mg/L	1	0.0800	<0.000590	73	39.2 - 124	7	20
Benzo(a)anthracene	0.0559	mg/L	1	0.0800	<0.000118	70	39.4 - 114	8	20
Chrysene	0.0631	mg/L	1	0.0800	<0.0000766	79	38.2 - 116	8	20
Benzo(b)fluoranthene	0.0593	mg/L	1	0.0800	<0.000146	74	34.5 - 118	3	20
Benzo(k)fluoranthene	0.0853	mg/L	1	0.0800	<0.000141	107	38.7 - 133	2	20
Benzo(a)pyrene	0.0861	mg/L	1	0.0800	<0.000132	108	38 - 134	5	20
Indeno(1,2,3-cd)pyrene	0.0665	mg/L	1	0.0800	<0.0000702	83	34.6 - 124	8	20
Dibenzo(a,h)anthracene	0.0671	mg/L	1	0.0800	<0.0000534	84	33.9 - 120	5	20
Benzo(g,h,i)perylene	0.0656	mg/L	1	0.0800	<0.0000473	82	33.8 - 138	7	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
Nitrobenzene-d5	0.0598	0.0560	mg/L	1	0.0800	75	70	25.9 - 97.5
2-Fluorobiphenyl	0.0521	0.0490	mg/L	1	0.0800	65	61	13.9 - 100
Terphenyl-d14	0.0573	0.0540	mg/L	1	0.0800	72	68	37.7 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 65521
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: AG
Prepared By: tn

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	0.712	mg/L	1	1.00	<0.0462	71	60.5 - 102.6

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
GRO	0.658	mg/L	1	1.00	<0.0462	66	60.5 - 102.6	8	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)	0.108	0.107	mg/L	1	0.100	108	107	54.3 - 132.4
4-Bromofluorobenzene (4-BFB)	0.0919	0.0918	mg/L	1	0.100	92	92	71.8 - 111.2

Matrix Spike (MS-1) Spiked Sample: 215038

QC Batch: 65416
Prep Batch: 55893

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: kg
Prepared By: kg

Report Date: December 1, 2009
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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	58.0	mg/L	1	25.0	35.1	92	70 - 130

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	³ 45.6	mg/L	1	25.0	35.1	42	70 - 130	24	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	8.11	7.57	mg/L	1	10	81	76	70 - 130

Matrix Spike (MS-1) Spiked Sample: 215015

QC Batch: 65421
Prep Batch: 55898

Date Analyzed: 2009-11-18
QC Preparation: 2009-11-18

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0979	mg/L	1	0.100	<0.000300	98	77.3 - 117.4
Toluene	0.0961	mg/L	1	0.100	<0.000200	96	75 - 111.8
Ethylbenzene	0.0931	mg/L	1	0.100	<0.000200	93	78.8 - 106.6
Xylene	0.278	mg/L	1	0.300	<0.000900	93	68.9 - 114

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	0.0978	mg/L	1	0.100	<0.000300	98	77.3 - 117.4	0	20
Toluene	0.0968	mg/L	1	0.100	<0.000200	97	75 - 111.8	1	20
Ethylbenzene	0.0948	mg/L	1	0.100	<0.000200	95	78.8 - 106.6	2	20
Xylene	0.283	mg/L	1	0.300	<0.000900	94	68.9 - 114	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)	0.105	0.106	mg/L	1	0.1	105	106	76.3 - 109.8
4-Bromofluorobenzene (4-BFB)	0.0921	0.0944	mg/L	1	0.1	92	94	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 215034

QC Batch: 65503
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

³Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	0.008	101	77.3 - 117.4
Toluene	0.0987	mg/L	1	0.100	<0.000200	99	75 - 111.8
Ethylbenzene	0.0960	mg/L	1	0.100	<0.000200	96	78.8 - 106.6
Xylene	0.286	mg/L	1	0.300	<0.000900	95	68.9 - 114

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	0.107	mg/L	1	0.100	0.008	99	77.3 - 117.4	2	20
Toluene	0.0972	mg/L	1	0.100	<0.000200	97	75 - 111.8	2	20
Ethylbenzene	0.0936	mg/L	1	0.100	<0.000200	94	78.8 - 106.6	2	20
Xylene	0.280	mg/L	1	0.300	<0.000900	93	68.9 - 114	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)	0.105	0.106	mg/L	1	0.1	105	106	76.3 - 109.8
4-Bromofluorobenzene (4-BFB)	0.105	0.106	mg/L	1	0.1	105	106	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 215116

QC Batch: 65513
Prep Batch: 55970

Date Analyzed: 2009-11-21
QC Preparation: 2009-11-20

Analyzed By: tn
Prepared By: tn

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.00	mg/L	5	0.500	0.5124	98	77.3 - 117.4
Toluene	0.485	mg/L	5	0.500	<0.00100	97	75 - 111.8
Ethylbenzene	0.490	mg/L	5	0.500	0.0176	94	78.8 - 106.6
Xylene	1.40	mg/L	5	1.50	<0.00450	93	68.9 - 114

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	1.01	mg/L	5	0.500	0.5124	100	77.3 - 117.4	1	20
Toluene	0.482	mg/L	5	0.500	<0.00100	96	75 - 111.8	1	20
Ethylbenzene	0.493	mg/L	5	0.500	0.0176	95	78.8 - 106.6	1	20
Xylene	1.41	mg/L	5	1.50	<0.00450	94	68.9 - 114	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.524	0.520	mg/L	5	0.5	105	104	76.3 - 109.8

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.477	0.477	mg/L	5	0.5	95	95	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 215335

QC Batch: 65521
Prep Batch: 55970

Date Analyzed: 2009-11-20
QC Preparation: 2009-11-20

Analyzed By: AG
Prepared By: tn

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.7	mg/L	10	10.0	10.7	0	10 - 159.8

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	10.9	mg/L	10	10.0	10.7	0	10 - 159.8	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)	1.08	1.07	mg/L	10	1	108	107	69.7 - 116.1
4-Bromofluorobenzene (4-BFB)	1.10	1.08	mg/L	10	1	110	108	71.3 - 118.9

Standard (CCV-1)

QC Batch: 65416

Date Analyzed: 2009-11-18

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	220	88	80 - 120	2009-11-18

Standard (CCV-2)

QC Batch: 65416

Date Analyzed: 2009-11-18

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	215	86	80 - 120	2009-11-18

⁴Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therefore, MS shows extraction occurred properly.

Standard (CCV-1)

QC Batch: 65421

Date Analyzed: 2009-11-18

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0969	97	80 - 120	2009-11-18
Toluene		mg/L	0.100	0.0962	96	80 - 120	2009-11-18
Ethylbenzene		mg/L	0.100	0.0956	96	80 - 120	2009-11-18
Xylene		mg/L	0.300	0.287	96	80 - 120	2009-11-18

Standard (CCV-2)

QC Batch: 65421

Date Analyzed: 2009-11-18

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0958	96	80 - 120	2009-11-18
Toluene		mg/L	0.100	0.0952	95	80 - 120	2009-11-18
Ethylbenzene		mg/L	0.100	0.0936	94	80 - 120	2009-11-18
Xylene		mg/L	0.300	0.280	93	80 - 120	2009-11-18

Standard (CCV-3)

QC Batch: 65421

Date Analyzed: 2009-11-18

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0945	94	80 - 120	2009-11-18
Toluene		mg/L	0.100	0.0937	94	80 - 120	2009-11-18
Ethylbenzene		mg/L	0.100	0.0926	93	80 - 120	2009-11-18
Xylene		mg/L	0.300	0.278	93	80 - 120	2009-11-18

Standard (CCV-2)

QC Batch: 65468

Date Analyzed: 2009-11-20

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.5	89	80 - 120	2009-11-20
2-Methylnaphthalene		mg/L	60.0	58.7	98	80 - 120	2009-11-20
1-Methylnaphthalene		mg/L	60.0	58.9	98	80 - 120	2009-11-20

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Acenaphthylene		mg/L	60.0	51.0	85	80 - 120	2009-11-20
Acenaphthene		mg/L	60.0	51.1	85	80 - 120	2009-11-20
Dibenzofuran		mg/L	60.0	52.9	88	80 - 120	2009-11-20
Fluorene		mg/L	60.0	55.7	93	80 - 120	2009-11-20
Anthracene		mg/L	60.0	56.1	94	80 - 120	2009-11-20
Phenanthrene		mg/L	60.0	54.1	90	80 - 120	2009-11-20
Fluoranthene		mg/L	60.0	56.8	95	80 - 120	2009-11-20
Pyrene		mg/L	60.0	50.6	84	80 - 120	2009-11-20
Benzo(a)anthracene		mg/L	60.0	49.9	83	80 - 120	2009-11-20
Chrysene		mg/L	60.0	54.3	90	80 - 120	2009-11-20
Benzo(b)fluoranthene		mg/L	60.0	52.8	88	80 - 120	2009-11-20
Benzo(k)fluoranthene		mg/L	60.0	66.5	111	80 - 120	2009-11-20
Benzo(a)pyrene		mg/L	60.0	63.6	106	80 - 120	2009-11-20
Indeno(1,2,3-cd)pyrene		mg/L	60.0	50.4	84	80 - 120	2009-11-20
Dibenzo(a,h)anthracene		mg/L	60.0	54.5	91	80 - 120	2009-11-20
Benzo(g,h,i)perylene		mg/L	60.0	57.1	95	80 - 120	2009-11-20

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.5	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		48.3	mg/L	1	60.0	80	80 - 120
Terphenyl-d14	6	47.6	mg/L	1	60.0	79	80 - 120

Standard (CCV-1)

QC Batch: 65469

Date Analyzed: 2009-11-20

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.5	89	80 - 120	2009-11-20
2-Methylnaphthalene		mg/L	60.0	58.7	98	80 - 120	2009-11-20
1-Methylnaphthalene		mg/L	60.0	58.9	98	80 - 120	2009-11-20
Acenaphthylene		mg/L	60.0	51.0	85	80 - 120	2009-11-20
Acenaphthene		mg/L	60.0	51.1	85	80 - 120	2009-11-20
Dibenzofuran		mg/L	60.0	52.9	88	80 - 120	2009-11-20
Fluorene		mg/L	60.0	55.7	93	80 - 120	2009-11-20
Anthracene		mg/L	60.0	56.1	94	80 - 120	2009-11-20
Phenanthrene		mg/L	60.0	54.1	90	80 - 120	2009-11-20
Fluoranthene		mg/L	60.0	56.8	95	80 - 120	2009-11-20
Pyrene		mg/L	60.0	50.6	84	80 - 120	2009-11-20

continued ...

⁶8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzo(a)anthracene		mg/L	60.0	49.9	83	80 - 120	2009-11-20
Chrysene		mg/L	60.0	54.3	90	80 - 120	2009-11-20
Benzo(b)fluoranthene		mg/L	60.0	52.8	88	80 - 120	2009-11-20
Benzo(k)fluoranthene		mg/L	60.0	66.5	111	80 - 120	2009-11-20
Benzo(a)pyrene		mg/L	60.0	63.6	106	80 - 120	2009-11-20
Indeno(1,2,3-cd)pyrene		mg/L	60.0	50.4	84	80 - 120	2009-11-20
Dibenzo(a,h)anthracene		mg/L	60.0	54.5	91	80 - 120	2009-11-20
Benzo(g,h,i)perylene		mg/L	60.0	57.1	95	80 - 120	2009-11-20

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.5	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		48.3	mg/L	1	60.0	80	80 - 120
Terphenyl-d14	7	47.6	mg/L	1	60.0	79	80 - 120

Standard (CCV-2)

QC Batch: 65469

Date Analyzed: 2009-11-20

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	52.9	88	80 - 120	2009-11-20
2-Methylnaphthalene		mg/L	60.0	59.5	99	80 - 120	2009-11-20
1-Methylnaphthalene		mg/L	60.0	59.0	98	80 - 120	2009-11-20
Acenaphthylene		mg/L	60.0	51.4	86	80 - 120	2009-11-20
Acenaphthene		mg/L	60.0	51.0	85	80 - 120	2009-11-20
Dibenzofuran		mg/L	60.0	52.5	88	80 - 120	2009-11-20
Fluorene		mg/L	60.0	55.8	93	80 - 120	2009-11-20
Anthracene		mg/L	60.0	56.0	93	80 - 120	2009-11-20
Phenanthrene		mg/L	60.0	53.9	90	80 - 120	2009-11-20
Fluoranthene		mg/L	60.0	55.7	93	80 - 120	2009-11-20
Pyrene		mg/L	60.0	49.2	82	80 - 120	2009-11-20
Benzo(a)anthracene		mg/L	60.0	50.4	84	80 - 120	2009-11-20
Chrysene		mg/L	60.0	54.2	90	80 - 120	2009-11-20
Benzo(b)fluoranthene		mg/L	60.0	60.6	101	80 - 120	2009-11-20
Benzo(k)fluoranthene		mg/L	60.0	64.7	108	80 - 120	2009-11-20
Benzo(a)pyrene		mg/L	60.0	65.6	109	80 - 120	2009-11-20
Indeno(1,2,3-cd)pyrene		mg/L	60.0	54.5	91	80 - 120	2009-11-20
Dibenzo(a,h)anthracene		mg/L	60.0	53.3	89	80 - 120	2009-11-20
Benzo(g,h,i)perylene		mg/L	60.0	55.9	93	80 - 120	2009-11-20

⁷8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.0	mg/L	1	60.0	98	80 - 120
2-Fluorobiphenyl		48.8	mg/L	1	60.0	81	80 - 120
Terphenyl-d14	8	46.0	mg/L	1	60.0	77	80 - 120

Standard (CCV-3)

QC Batch: 65469

Date Analyzed: 2009-11-20

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.2	89	80 - 120	2009-11-20
2-Methylnaphthalene		mg/L	60.0	57.2	95	80 - 120	2009-11-20
1-Methylnaphthalene		mg/L	60.0	58.2	97	80 - 120	2009-11-20
Acenaphthylene		mg/L	60.0	51.0	85	80 - 120	2009-11-20
Acenaphthene		mg/L	60.0	50.4	84	80 - 120	2009-11-20
Dibenzofuran		mg/L	60.0	51.6	86	80 - 120	2009-11-20
Fluorene		mg/L	60.0	54.6	91	80 - 120	2009-11-20
Anthracene		mg/L	60.0	56.5	94	80 - 120	2009-11-20
Phenanthrene		mg/L	60.0	54.2	90	80 - 120	2009-11-20
Fluoranthene		mg/L	60.0	57.3	96	80 - 120	2009-11-20
Pyrene		mg/L	60.0	48.9	82	80 - 120	2009-11-20
Benzo(a)anthracene		mg/L	60.0	50.3	84	80 - 120	2009-11-20
Chrysene		mg/L	60.0	51.9	86	80 - 120	2009-11-20
Benzo(b)fluoranthene		mg/L	60.0	50.8	85	80 - 120	2009-11-20
Benzo(k)fluoranthene		mg/L	60.0	63.3	106	80 - 120	2009-11-20
Benzo(a)pyrene		mg/L	60.0	63.0	105	80 - 120	2009-11-20
Indeno(1,2,3-cd)pyrene		mg/L	60.0	53.8	90	80 - 120	2009-11-20
Dibenzo(a,h)anthracene		mg/L	60.0	54.4	91	80 - 120	2009-11-20
Benzo(g,h,i)perylene		mg/L	60.0	51.6	86	80 - 120	2009-11-20

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		58.5	mg/L	1	60.0	98	80 - 120
2-Fluorobiphenyl		48.2	mg/L	1	60.0	80	80 - 120
Terphenyl-d14	9	46.2	mg/L	1	60.0	77	80 - 120

Standard (CCV-1)

QC Batch: 65503

Date Analyzed: 2009-11-20

Analyzed By: tn

⁸8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

⁹8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0925	92	80 - 120	2009-11-20
Toluene		mg/L	0.100	0.0918	92	80 - 120	2009-11-20
Ethylbenzene		mg/L	0.100	0.0892	89	80 - 120	2009-11-20
Xylene		mg/L	0.300	0.266	89	80 - 120	2009-11-20

Standard (CCV-2)

QC Batch: 65503

Date Analyzed: 2009-11-20

Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0900	90	80 - 120	2009-11-20
Toluene		mg/L	0.100	0.0893	89	80 - 120	2009-11-20
Ethylbenzene		mg/L	0.100	0.0861	86	80 - 120	2009-11-20
Xylene		mg/L	0.300	0.258	86	80 - 120	2009-11-20

Standard (CCV-3)

QC Batch: 65503

Date Analyzed: 2009-11-20

Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0949	95	80 - 120	2009-11-20
Toluene		mg/L	0.100	0.0933	93	80 - 120	2009-11-20
Ethylbenzene		mg/L	0.100	0.0921	92	80 - 120	2009-11-20
Xylene		mg/L	0.300	0.274	91	80 - 120	2009-11-20

Standard (CCV-2)

QC Batch: 65513

Date Analyzed: 2009-11-21

Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0942	94	80 - 120	2009-11-21
Toluene		mg/L	0.100	0.0925	92	80 - 120	2009-11-21
Ethylbenzene		mg/L	0.100	0.0879	88	80 - 120	2009-11-21
Xylene		mg/L	0.300	0.270	90	80 - 120	2009-11-21

Standard (CCV-3)

QC Batch: 65513

Date Analyzed: 2009-11-21

Analyzed By: tn

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0976	98	80 - 120	2009-11-21
Toluene		mg/L	0.100	0.0965	96	80 - 120	2009-11-21
Ethylbenzene		mg/L	0.100	0.0909	91	80 - 120	2009-11-21
Xylene		mg/L	0.300	0.282	94	80 - 120	2009-11-21

Standard (CCV-1)

QC Batch: 65519

Date Analyzed: 2009-11-23

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	53.2	89	80 - 120	2009-11-23
2-Methylnaphthalene		mg/L	60.0	57.2	95	80 - 120	2009-11-23
1-Methylnaphthalene		mg/L	60.0	58.2	97	80 - 120	2009-11-23
Acenaphthylene		mg/L	60.0	51.0	85	80 - 120	2009-11-23
Acenaphthene		mg/L	60.0	50.4	84	80 - 120	2009-11-23
Dibenzofuran		mg/L	60.0	51.6	86	80 - 120	2009-11-23
Fluorene		mg/L	60.0	54.6	91	80 - 120	2009-11-23
Anthracene		mg/L	60.0	56.5	94	80 - 120	2009-11-23
Phenanthrene		mg/L	60.0	54.2	90	80 - 120	2009-11-23
Fluoranthene		mg/L	60.0	57.3	96	80 - 120	2009-11-23
Pyrene		mg/L	60.0	48.9	82	80 - 120	2009-11-23
Benzo(a)anthracene		mg/L	60.0	50.3	84	80 - 120	2009-11-23
Chrysene		mg/L	60.0	51.9	86	80 - 120	2009-11-23
Benzo(b)fluoranthene		mg/L	60.0	50.8	85	80 - 120	2009-11-23
Benzo(k)fluoranthene		mg/L	60.0	63.3	106	80 - 120	2009-11-23
Benzo(a)pyrene		mg/L	60.0	63.0	105	80 - 120	2009-11-23
Indeno(1,2,3-cd)pyrene		mg/L	60.0	53.8	90	80 - 120	2009-11-23
Dibenzo(a,h)anthracene		mg/L	60.0	54.4	91	80 - 120	2009-11-23
Benzo(g,h,i)perylene		mg/L	60.0	51.6	86	80 - 120	2009-11-23

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		58.5	mg/L	1	60.0	98	80 - 120
2-Fluorobiphenyl		48.2	mg/L	1	60.0	80	80 - 120
Terphenyl-d14	¹⁰	46.2	mg/L	1	60.0	77	80 - 120

¹⁰8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Standard (CCV-2)

QC Batch: 65519

Date Analyzed: 2009-11-23

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	52.7	88	80 - 120	2009-11-23
2-Methylnaphthalene		mg/L	60.0	57.0	95	80 - 120	2009-11-23
1-Methylnaphthalene		mg/L	60.0	56.1	94	80 - 120	2009-11-23
Acenaphthylene		mg/L	60.0	50.8	85	80 - 120	2009-11-23
Acenaphthene		mg/L	60.0	50.3	84	80 - 120	2009-11-23
Dibenzofuran		mg/L	60.0	52.2	87	80 - 120	2009-11-23
Fluorene		mg/L	60.0	54.9	92	80 - 120	2009-11-23
Anthracene		mg/L	60.0	56.4	94	80 - 120	2009-11-23
Phenanthrene		mg/L	60.0	54.3	90	80 - 120	2009-11-23
Fluoranthene		mg/L	60.0	56.9	95	80 - 120	2009-11-23
Pyrene		mg/L	60.0	49.5	82	80 - 120	2009-11-23
Benzo(a)anthracene		mg/L	60.0	50.0	83	80 - 120	2009-11-23
Chrysene		mg/L	60.0	53.2	89	80 - 120	2009-11-23
Benzo(b)fluoranthene		mg/L	60.0	53.3	89	80 - 120	2009-11-23
Benzo(k)fluoranthene		mg/L	60.0	58.5	98	80 - 120	2009-11-23
Benzo(a)pyrene		mg/L	60.0	63.7	106	80 - 120	2009-11-23
Indeno(1,2,3-cd)pyrene		mg/L	60.0	52.0	87	80 - 120	2009-11-23
Dibenzo(a,h)anthracene		mg/L	60.0	54.7	91	80 - 120	2009-11-23
Benzo(g,h,i)perylene		mg/L	60.0	51.6	86	80 - 120	2009-11-23

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		59.2	mg/L	1	60.0	99	80 - 120
2-Fluorobiphenyl		47.7	mg/L	1	60.0	80	80 - 120
Terphenyl-d14	¹¹	47.0	mg/L	1	60.0	78	80 - 120

Standard (CCV-1)

QC Batch: 65521

Date Analyzed: 2009-11-20

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.927	93	80 - 120	2009-11-20

Standard (CCV-2)

QC Batch: 65521

Date Analyzed: 2009-11-20

Analyzed By: AG

¹¹8270 Only - One basic surrogate is out of control limits. The other two basic surrogates show extraction was performed properly.

Report Date: December 1, 2009
TNM-LF-2000-7

Work Order: 9111612
Bob Durham

Page Number: 65 of 65
West of Monument, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.879	88	80 - 120	2009-11-20

Carrier # 152529332

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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200 East Sunset Rd., Suite E
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Tel (915) 595-3443
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1 (888) 588-3443

email: lab@traceanalysis.com

Company Name: Nova		Phone #: 520-7920	
Address: 2057 Commerce		Fax #:	
Contact Person: Ron R.		E-mail:	
Invoice to: (if different from above) Plains			
Project #: JNM-LF-200-7		Project Name: Bob Durham	
Project Location (including state): NM.			
Sample Signature: <i>[Signature]</i>			

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time if different from standard
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		
215030	MW-33	4		X				X					11-13	10:44	
031	MW-37													11:30	
032	MW-17													12:16	
033	MW-6													13:00	
034	MW-2													13:48	
035	MW-38													14:30	
036	MW-1													15:15	
037	MW-5													16:00	
038	MW-12	6												16:41	
039	Field Blank	1													

ANALYSIS REQUEST (Circle or Specify Method No.)	
MTBE 8021 / 602 / 8260 / 624	☒
TPH 418.1 / TX1005 / TX1005 Ex(C35)	☒
TPH 8015 GMS / 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	☒
PCBs 8082 / 608	☒
Pesticides 8081 / 608	☒
BOD, TSS, pH	☒
Moisture Content	☒
Cl, F, S04, NO3, NO2, Alkalinity	☒
Na, Ca, Mg, K, TDS, EC	☒

LAB USE ONLY		REMARKS:	
INST OBS 3.6	INST COR 3.6	LS 2J293478 5.0/54 JR	
INST OBS 3.6	INST COR 3.6		
INST OBS 3.6	INST COR 3.6		
INST OBS 3.6	INST COR 3.6	LS 2J293472, 2J293564	

Relinquished by:		Relinquished by:		Relinquished by:	
Company: Nova	Date: 11/16/09	Company: Trace	Date: 11-17-09	Company: LOK	Date: 11-17-09
Time: 8:20	Time: 9:35	Time: AM	Time: AM	Time: AM	Time: AM

Carrier # 15 2J293472, 2J293564



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•376•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 888•388•3443 915•585•3443 FAX 915•585•4944
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5015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•261•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

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: February 26, 2010

Work Order: 10021904



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
222957	MW-26	water	2010-02-18	08:00	2010-02-19
222958	MW-31	water	2010-02-18	08:30	2010-02-19
222959	MW-33	water	2010-02-18	09:00	2010-02-19
222960	MW-9	water	2010-02-18	09:30	2010-02-19
222961	MW-15	water	2010-02-18	10:00	2010-02-19
222962	MW-10	water	2010-02-18	10:30	2010-02-19
222963	MW-7	water	2010-02-18	11:00	2010-02-19
222964	MW-32	water	2010-02-18	11:30	2010-02-19
222965	MW-37	water	2010-02-18	12:00	2010-02-19
222966	MW-8	water	2010-02-18	12:30	2010-02-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222967	MW-28	water	2010-02-18	13:00	2010-02-19
222968	MW-3	water	2010-02-18	13:30	2010-02-19
222969	MW-23	water	2010-02-18	14:00	2010-02-19
222970	MW-16	water	2010-02-18	14:45	2010-02-19
222971	MW-4	water	2010-02-18	15:15	2010-02-19
222972	MW-6	water	2010-02-18	15:45	2010-02-19
222973	MW-2	water	2010-02-18	16:30	2010-02-19
222974	MW-13	water	2010-02-18	17:00	2010-02-19
222975	MW-38	water	2010-02-18	17:36	2010-02-19
222976	MW-1	water	2010-02-18	18:15	2010-02-19
222977	MW-5	water	2010-02-18	19:00	2010-02-19

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 17 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 Bob Durham were received by TraceAnalysis, Inc. on 2010-02-19 and assigned to work order 10021904. Samples for work order 10021904 were received intact without headspace and at a temperature of 3.1 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	58011	2010-02-24 at 11:00	67815	2010-02-24 at 12:32
BTEX	S 8021B	58042	2010-02-25 at 14:00	67848	2010-02-25 at 17:21

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 10021904 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: 222957 - MW-26

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0913	mg/L	1	0.100	91	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0819	mg/L	1	0.100	82	51.1 - 118.8

Sample: 222958 - MW-31

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0960	mg/L	1	0.100	96	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0863	mg/L	1	0.100	86	51.1 - 118.8

Sample: 222959 - MW-33

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Report Date: February 26, 2010
TNM-LF-2000-07

Work Order: 10021904
Bob Durham

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Monument, Lea County, NM

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0940	mg/L	1	0.100	94	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0819	mg/L	1	0.100	82	51.1 - 118.8

Sample: 222960 - MW-9

Laboratory: Midland
Analysis: BTEX
QC Batch: 67815
Prep Batch: 58011

Analytical Method: S 8021B
Date Analyzed: 2010-02-24
Sample Preparation: 2010-02-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0964	mg/L	1	0.100	96	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0838	mg/L	1	0.100	84	51.1 - 118.8

Sample: 222961 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 67815
Prep Batch: 58011

Analytical Method: S 8021B
Date Analyzed: 2010-02-24
Sample Preparation: 2010-02-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Report Date: February 26, 2010
TNM-LF-2000-07

Work Order: 10021904
Bob Durham

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Monument, Lea County, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0763	mg/L	1	0.100	76	51.1 - 118.8

Sample: 222962 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0844	mg/L	1	0.100	84	51.1 - 118.8

Sample: 222963 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0919	mg/L	1	0.100	92	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0872	mg/L	1	0.100	87	51.1 - 118.8

Report Date: February 26, 2010
TNM-LF-2000-07

Work Order: 10021904
Bob Durham

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Monument, Lea County, NM

Sample: 222964 - MW-32

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0903	mg/L	1	0.100	90	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0855	mg/L	1	0.100	86	51.1 - 118.8

Sample: 222965 - MW-37

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0849	mg/L	1	0.100	85	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0715	mg/L	1	0.100	72	51.1 - 118.8

Sample: 222966 - MW-8

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0796	mg/L	1	0.100	80	51.1 - 118.8

Sample: 222967 - MW-28

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0899	mg/L	1	0.100	90	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0746	mg/L	1	0.100	75	51.1 - 118.8

Sample: 222968 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0751	mg/L	1	0.100	75	51.1 - 118.8

Sample: 222969 - MW-23

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0913	mg/L	1	0.100	91	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0752	mg/L	1	0.100	75	51.1 - 118.8

Sample: 222970 - MW-16

Laboratory: Midland

Analysis: BTEX

QC Batch: 67815

Prep Batch: 58011

Analytical Method: S 8021B

Date Analyzed: 2010-02-24

Sample Preparation: 2010-02-24

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0919	mg/L	1	0.100	92	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0995	mg/L	1	0.100	100	51.1 - 118.8

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Sample: 222971 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 67815
Prep Batch: 58011

Analytical Method: S 8021B
Date Analyzed: 2010-02-24
Sample Preparation: 2010-02-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0889	mg/L	1	0.100	89	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0806	mg/L	1	0.100	81	51.1 - 118.8

Sample: 222972 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 67815
Prep Batch: 58011

Analytical Method: S 8021B
Date Analyzed: 2010-02-24
Sample Preparation: 2010-02-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0918	mg/L	1	0.100	92	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0827	mg/L	1	0.100	83	51.1 - 118.8

Sample: 222973 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 67815
Prep Batch: 58011

Analytical Method: S 8021B
Date Analyzed: 2010-02-24
Sample Preparation: 2010-02-24

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00910	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0932	mg/L	1	0.100	93	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	51.1 - 118.8

Sample: 222974 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0947	mg/L	1	0.100	95	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	51.1 - 118.8

Sample: 222975 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 67848
Prep Batch: 58042

Analytical Method: S 8021B
Date Analyzed: 2010-02-25
Sample Preparation: 2010-02-25

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0142	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00370	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0877	mg/L	1	0.100	88	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.0961	mg/L	1	0.100	96	51.1 - 118.8

Sample: 222976 - MW-1

Laboratory: Midland

Analysis: BTEX

QC Batch: 67848

Prep Batch: 58042

Analytical Method: S 8021B

Date Analyzed: 2010-02-25

Sample Preparation: 2010-02-25

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0298	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00520	mg/L	1	0.00100
Xylene		0.00410	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0863	mg/L	1	0.100	86	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)	¹	0.127	mg/L	1	0.100	127	51.1 - 118.8

Sample: 222977 - MW-5

Laboratory: Midland

Analysis: BTEX

QC Batch: 67848

Prep Batch: 58042

Analytical Method: S 8021B

Date Analyzed: 2010-02-25

Sample Preparation: 2010-02-25

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0495	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00500	mg/L	1	0.00100
Xylene		0.00660	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0869	mg/L	1	0.100	87	65.9 - 129.8
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	51.1 - 118.8

¹High surrogate recovery due to peak interference.

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Method Blank (1) QC Batch: 67815

QC Batch: 67815
Prep Batch: 58011

Date Analyzed: 2010-02-24
QC Preparation: 2010-02-24

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0895	mg/L	1	0.100	90	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0842	mg/L	1	0.100	84	62.6 - 117.5

Method Blank (1) QC Batch: 67848

QC Batch: 67848
Prep Batch: 58042

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

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0956	mg/L	1	0.100	96	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0849	mg/L	1	0.100	85	62.6 - 117.5

Laboratory Control Spike (LCS-1)

QC Batch: 67815
Prep Batch: 58011

Date Analyzed: 2010-02-24
QC Preparation: 2010-02-24

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0937	mg/L	1	0.100	<0.000300	94	79.4 - 112.4
Toluene	0.0940	mg/L	1	0.100	<0.000200	94	79.3 - 110
Ethylbenzene	0.0935	mg/L	1	0.100	<0.000200	94	73.8 - 113.1

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.281	mg/L	1	0.300	<0.000900	94	73.9 - 113.6

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0932	mg/L	1	0.100	<0.000300	93	79.4 - 112.4	0	20
Toluene	0.0933	mg/L	1	0.100	<0.000200	93	79.3 - 110	1	20
Ethylbenzene	0.0929	mg/L	1	0.100	<0.000200	93	73.8 - 113.1	1	20
Xylene	0.280	mg/L	1	0.300	<0.000900	93	73.9 - 113.6	0	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0887	0.0933	mg/L	1	0.100	89	93	76.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0941	0.0983	mg/L	1	0.100	94	98	77.9 - 119.8

Laboratory Control Spike (LCS-1)

QC Batch: 67848
Prep Batch: 58042

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

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0879	mg/L	1	0.100	<0.000300	88	79.4 - 112.4
Toluene	0.0874	mg/L	1	0.100	<0.000200	87	79.3 - 110
Ethylbenzene	0.0867	mg/L	1	0.100	<0.000200	87	73.8 - 113.1
Xylene	0.262	mg/L	1	0.300	<0.000900	87	73.9 - 113.6

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

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0929	mg/L	1	0.100	<0.000300	93	79.4 - 112.4	6	20
Toluene	0.0928	mg/L	1	0.100	<0.000200	93	79.3 - 110	6	20
Ethylbenzene	0.0924	mg/L	1	0.100	<0.000200	92	73.8 - 113.1	6	20
Xylene	0.279	mg/L	1	0.300	<0.000900	93	73.9 - 113.6	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0844	0.0916	mg/L	1	0.100	84	92	76.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0892	0.0971	mg/L	1	0.100	89	97	77.9 - 119.8

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Matrix Spike (MS-1) Spiked Sample: 222839

QC Batch: 67815
Prep Batch: 58011

Date Analyzed: 2010-02-24
QC Preparation: 2010-02-24

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	25.6	mg/L	100	10.0	16.6242	90	77.3 - 117.4
Toluene	16.3	mg/L	100	10.0	8.1788	81	75 - 111.8
Ethylbenzene	9.84	mg/L	100	10.0	1.4033	84	78.8 - 106.6
Xylene	29.3	mg/L	100	30.0	4.0697	84	68.9 - 114

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	25.7	mg/L	100	10.0	16.6242	91	77.3 - 117.4	0	20
Toluene	16.4	mg/L	100	10.0	8.1788	82	75 - 111.8	1	20
Ethylbenzene	10.0	mg/L	100	10.0	1.4033	86	78.8 - 106.6	2	20
Xylene	29.7	mg/L	100	30.0	4.0697	85	68.9 - 114	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	8.60	8.44	mg/L	100	10	86	84	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	9.28	9.06	mg/L	100	10	93	91	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 223206

QC Batch: 67848
Prep Batch: 58042

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

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.84	mg/L	5	0.500	1.3635	89	77.3 - 117.4
Toluene	0.475	mg/L	5	0.500	0.0375	88	75 - 111.8
Ethylbenzene	0.479	mg/L	5	0.500	0.0456	87	78.8 - 106.6
Xylene	1.37	mg/L	5	1.50	0.0733	86	68.9 - 114

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	1.81	mg/L	5	0.500	1.3635	89	77.3 - 117.4	2	20
Toluene	0.482	mg/L	5	0.500	0.0375	89	75 - 111.8	2	20
Ethylbenzene	0.491	mg/L	5	0.500	0.0456	89	78.8 - 106.6	2	20
Xylene	1.41	mg/L	5	1.50	0.0733	89	68.9 - 114	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.434	0.427	mg/L	5	0.5	87	85	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	0.455	0.455	mg/L	5	0.5	91	91	75.2 - 112.8

Standard (CCV-1)

QC Batch: 67815

Date Analyzed: 2010-02-24

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0889	89	80 - 120	2010-02-24
Toluene		mg/L	0.100	0.0902	90	80 - 120	2010-02-24
Ethylbenzene		mg/L	0.100	0.0889	89	80 - 120	2010-02-24
Xylene		mg/L	0.300	0.269	90	80 - 120	2010-02-24

Standard (CCV-2)

QC Batch: 67815

Date Analyzed: 2010-02-24

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0921	92	80 - 120	2010-02-24
Toluene		mg/L	0.100	0.0919	92	80 - 120	2010-02-24
Ethylbenzene		mg/L	0.100	0.0907	91	80 - 120	2010-02-24
Xylene		mg/L	0.300	0.274	91	80 - 120	2010-02-24

Standard (CCV-3)

QC Batch: 67815

Date Analyzed: 2010-02-24

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0881	88	80 - 120	2010-02-24
Toluene		mg/L	0.100	0.0877	88	80 - 120	2010-02-24
Ethylbenzene		mg/L	0.100	0.0870	87	80 - 120	2010-02-24
Xylene		mg/L	0.300	0.262	87	80 - 120	2010-02-24

Standard (CCV-1)

QC Batch: 67848

Date Analyzed: 2010-02-25

Analyzed By: AG

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0902	90	80 - 120	2010-02-25
Toluene		mg/L	0.100	0.0905	90	80 - 120	2010-02-25
Ethylbenzene		mg/L	0.100	0.0900	90	80 - 120	2010-02-25
Xylene		mg/L	0.300	0.271	90	80 - 120	2010-02-25

Standard (CCV-2)

QC Batch: 67848

Date Analyzed: 2010-02-25

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0907	91	80 - 120	2010-02-25
Toluene		mg/L	0.100	0.0898	90	80 - 120	2010-02-25
Ethylbenzene		mg/L	0.100	0.0889	89	80 - 120	2010-02-25
Xylene		mg/L	0.300	0.268	89	80 - 120	2010-02-25

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

Company Name: Plaza Phone #: 520-777-80
Address: 2057 Comstock Fax #:
Contact Person: Ron K. E-mail:
Invoice to: _____
(If different from above) Plaza
Project #: _____ Project Name: _____
77M-LE-000-7 B. B. B. B. B.
Project Location (including state): N.M. Sampler Signature: [Signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LABORATORY USE ONLY									
LAB #	FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	DATE	TIME	SAMPLING	TIME
202957	NW-26	3	100	WATER	HCl	2-18	8:45		
958	NW-31						8:50		
959	NW-33						9:00		
960	NW-9						9:50		
961	NW-15						10:00		
962	NW-10						10:30		
963	NW-17						11:00		
964	NW-32						11:30		
965	NW-37						12:00		
966	NW-8						12:30		
967	NW-28						13:00		

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
[Signature]	TRAC	2/19/10	8:20	[Signature]	TRAC	2/19/10	8:20
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

LAB USE ONLY	REMARKS:
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, SO4, NO3, NO2, ALKALINITY	
Na, Ca, Mg, K, TDS, EC	
TURN AROUND TIME IF DIFFERENT FROM STANDARD	

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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, SO4, NO3, NO2, ALKALINITY

Na, Ca, Mg, K, TDS, EC

TURN AROUND TIME IF DIFFERENT FROM STANDARD

LABORATORY USE ONLY

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

TCL

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

Carrier # 66666

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name: Nova Phone #: 520-7720
Address: (Street, City, Zip) 2057 Commerce Fax #:
Contact Person: Mark E-mail:
Invoice to: _____
(If different from above) Plains
Project #: 7NPM-LF-2000-7 Project Name: Ro B Durham
Project Location (including state): _____ Sampler Signature: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE) (ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	10'	
222908	MW-3	3	100	X				X							2/8	1330
919	MW-23															1400
970	MW-16															1445
971	MW-4															1515
972	MW-6															1645
973	MW-2															1630
974	MW-13															1740
975	MW-38															1730
976	MW-1															1815
977	MW-5															1900

2057 Commerce

Plains

77M-LF-2000-17

Project Name: R.B. Dorman

Sampler Signature: [Signature]

Project Location (including state):

Project #: 77M-LF-2000-17

Invoice to:

(If different from above)

Project #:

Contact Person:

E-mail:

Turn Around Time if different from standard

Hold

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	LAB USE	REMARKS:
<i>[Signature]</i>	USA	2/19/16	820	<i>[Signature]</i>	INAC	2/19/16	8:20	OBS 3.1 °C COR 3.1 °C	ONLY	X All tests Midland
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	Intact ☒ N	
								OBS °C COR °C	Headspace Y ☒ N	☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check if Special Reporting Limits Are Needed
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST		Log-in-Review
								OBS °C COR °C		

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

Carrier #



6701 Aberdeen Avenue, Suite 8 Lubbock, Texas 79424 800•378•1298 805•794•1298 FAX 806•754•1298
200 East Scurer Road, Suite E El Paso, Texas 79922 808•588•3443 915•565•3443 FAX 915•585•4844
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
8015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•291•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: June 1, 2010

Work Order: 10052025



Project Location: Monnment, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
232370	MW-14	water	2010-05-18	10:30	2010-05-20
232371	MW-24	water	2010-05-18	11:00	2010-05-20
232372	MW-26	water	2010-05-18	11:30	2010-05-20
232373	MW-31	water	2010-05-18	12:00	2010-05-20
232374	MW-33	water	2010-05-18	12:30	2010-05-20
232375	MW-9	water	2010-05-18	13:00	2010-05-20
232376	MW-15	water	2010-05-18	13:30	2010-05-20
232377	MW-10	water	2010-05-18	14:00	2010-05-20
232378	MW-7	water	2010-05-18	14:30	2010-05-20
232379	MW-32	water	2010-05-18	15:00	2010-05-20

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
232380	MW-37	water	2010-05-18	15:30	2010-05-20
232381	MW-8	water	2010-05-19	09:30	2010-05-20
232382	MW-28	water	2010-05-18	10:00	2010-05-20
232383	MW-3	water	2010-05-18	10:30	2010-05-20
232384	MW-23	water	2010-05-18	11:00	2010-05-20
232385	MW-16	water	2010-05-18	11:30	2010-05-20
232386	MW-4	water	2010-05-18	12:00	2010-05-20
232387	MW-6	water	2010-05-18	12:30	2010-05-20
232388	MW-13	water	2010-05-18	13:00	2010-05-20
232389	MW-2	water	2010-05-18	13:30	2010-05-20
232390	MW-38	water	2010-05-18	14:00	2010-05-20
232391	MW-1	water	2010-05-18	14:30	2010-05-20
232392	MW-5	water	2010-05-18	15:00	2010-05-20

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 18 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 Bob Durham were received by TraceAnalysis, Inc. on 2010-05-20 and assigned to work order 10052025. Samples for work order 10052025 were received intact without headspace and at a temperature of 4.0 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	60311	2010-05-26 at 16:00	70430	2010-05-26 at 23:28
BTEX	S 8021B	60365	2010-05-27 at 11:00	70492	2010-05-27 at 13:26

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 10052025 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.

Report Date: June 1, 2010
TNM-LF-2000-07

Work Order: 10052025
Bob Durham

Page Number: 4 of 18
Monument, Lea County, NM

Analytical Report

Sample: 232370 - MW-14

Laboratory: Midland
Analysis: BTEX
QC Batch: 70430
Prep Batch: 60311

Analytical Method: S 8021B
Date Analyzed: 2010-05-26
Sample Preparation: 2010-05-26

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	51.1 - 121.7

Sample: 232371 - MW-24

Laboratory: Midland
Analysis: BTEX
QC Batch: 70430
Prep Batch: 60311

Analytical Method: S 8021B
Date Analyzed: 2010-05-26
Sample Preparation: 2010-05-26

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0880	mg/L	1	0.100	88	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0851	mg/L	1	0.100	85	51.1 - 121.7

Sample: 232372 - MW-26

Laboratory: Midland
Analysis: BTEX
QC Batch: 70430
Prep Batch: 60311

Analytical Method: S 8021B
Date Analyzed: 2010-05-26
Sample Preparation: 2010-05-26

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Report Date: June 1, 2010
TNM-LF-2000-07

Work Order: 10052025
Bob Durham

Page Number: 5 of 18
Monument, Lea County, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0870	mg/L	1	0.100	87	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0843	mg/L	1	0.100	84	51.1 - 121.7

Sample: 232373 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0880	mg/L	1	0.100	88	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0836	mg/L	1	0.100	84	51.1 - 121.7

Sample: 232374 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Report Date: June 1, 2010
TNM-LF-2000-07

Work Order: 10052025
Bob Durham

Page Number: 6 of 18
Monument, Lea County, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0931	mg/L	1	0.100	93	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0878	mg/L	1	0.100	88	51.1 - 121.7

Sample: 232375 - MW-9

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0989	mg/L	1	0.100	99	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0949	mg/L	1	0.100	95	51.1 - 121.7

Sample: 232376 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0897	mg/L	1	0.100	90	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0854	mg/L	1	0.100	85	51.1 - 121.7

Report Date: June 1, 2010
TNM-LF-2000-07

Work Order: 10052025
Bob Durham

Page Number: 7 of 18
Monument, Lea County, NM

Sample: 232377 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0990	mg/L	1	0.100	99	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0924	mg/L	1	0.100	92	51.1 - 121.7

Sample: 232378 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0993	mg/L	1	0.100	99	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0977	mg/L	1	0.100	98	51.1 - 121.7

Sample: 232379 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Report Date: June 1, 2010
TNM-LF-2000-07

Work Order: 10052025
Bob Durham

Page Number: 8 of 18
Monument, Lea County, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0860	mg/L	1	0.100	86	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0822	mg/L	1	0.100	82	51.1 - 121.7

Sample: 232380 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0842	mg/L	1	0.100	84	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0800	mg/L	1	0.100	80	51.1 - 121.7

Sample: 232381 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0973	mg/L	1	0.100	97	51.1 - 121.7

Sample: 232382 - MW-28

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0983	mg/L	1	0.100	98	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0947	mg/L	1	0.100	95	51.1 - 121.7

Sample: 232383 - MW-3

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0943	mg/L	1	0.100	94	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0882	mg/L	1	0.100	88	51.1 - 121.7

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Sample: 232384 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0897	mg/L	1	0.100	90	51.1 - 121.7

Sample: 232385 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0935	mg/L	1	0.100	94	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 121.7

Sample: 232386 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0984	mg/L	1	0.100	98	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0919	mg/L	1	0.100	92	51.1 - 121.7

Sample: 232387 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0917	mg/L	1	0.100	92	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0861	mg/L	1	0.100	86	51.1 - 121.7

Sample: 232388 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	51.1 - 121.7

Sample: 232389 - MW-2

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00650	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00180	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.114	mg/L	1	0.100	114	51.1 - 121.7

Sample: 232390 - MW-38

Laboratory: Midland

Analysis: BTEX

QC Batch: 70492

Prep Batch: 60365

Analytical Method: S 8021B

Date Analyzed: 2010-05-27

Sample Preparation: 2010-05-27

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0106	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		0.00400	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0813	mg/L	1	0.100	81	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.0816	mg/L	1	0.100	82	51.1 - 121.7

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Sample: 232391 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Benzene		0.0182	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00390	mg/L	1	0.00100
Xylene		0.00340	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0901	mg/L	1	0.100	90	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.119	mg/L	1	0.100	119	51.1 - 121.7

Sample: 232392 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 70492
Prep Batch: 60365

Analytical Method: S 8021B
Date Analyzed: 2010-05-27
Sample Preparation: 2010-05-27

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL		Dilution	RL
		Result	Units		
Benzene		0.0386	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00440	mg/L	1	0.00100
Xylene		0.00510	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0960	mg/L	1	0.100	96	65.2 - 130.3
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	51.1 - 121.7

Method Blank (1) QC Batch: 70430

QC Batch: 70430
Prep Batch: 60311

Date Analyzed: 2010-05-26
QC Preparation: 2010-05-26

Analyzed By: AG
Prepared By: AG

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Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.110	mg/L	1	0.100	110	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	62.6 - 117.5

Method Blank (1) QC Batch: 70492

QC Batch: 70492
Prep Batch: 60365

Date Analyzed: 2010-05-27
QC Preparation: 2010-05-27

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000300	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000900	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	73.6 - 126.6
4-Bromofluorobenzene (4-BFB)		0.0962	mg/L	1	0.100	96	62.6 - 117.5

Laboratory Control Spike (LCS-1)

QC Batch: 70430
Prep Batch: 60311

Date Analyzed: 2010-05-26
QC Preparation: 2010-05-26

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.101	mg/L	1	0.100	<0.000300	101	79.4 - 112.4
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.3 - 110
Ethylbenzene	0.0992	mg/L	1	0.100	<0.000200	99	73.8 - 113.1
Xylene	0.298	mg/L	1	0.300	<0.000900	99	73.9 - 113.6

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0991	mg/L	1	0.100	<0.000300	99	79.4 - 112.4	2	20
Toluene	0.0991	mg/L	1	0.100	<0.000200	99	79.3 - 110	2	20
Ethylbenzene	0.0981	mg/L	1	0.100	<0.000200	98	73.8 - 113.1	1	20
Xylene	0.295	mg/L	1	0.300	<0.000900	98	73.9 - 113.6	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0942	0.0947	mg/L	1	0.100	94	95	73.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0961	0.0956	mg/L	1	0.100	96	96	77.9 - 119.8

Laboratory Control Spike (LCS-1)

QC Batch: 70492
Prep Batch: 60365

Date Analyzed: 2010-05-27
QC Preparation: 2010-05-27

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0936	mg/L	1	0.100	<0.000300	94	79.4 - 112.4
Toluene	0.0937	mg/L	1	0.100	<0.000200	94	79.3 - 110
Ethylbenzene	0.0927	mg/L	1	0.100	<0.000200	93	73.8 - 113.1
Xylene	0.279	mg/L	1	0.300	<0.000900	93	73.9 - 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	0.101	mg/L	1	0.100	<0.000300	101	79.4 - 112.4	8	20
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.3 - 110	8	20
Ethylbenzene	0.0998	mg/L	1	0.100	<0.000200	100	73.8 - 113.1	7	20
Xylene	0.301	mg/L	1	0.300	<0.000900	100	73.9 - 113.6	8	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)	0.0924	0.101	mg/L	1	0.100	92	101	73.2 - 129.6
4-Bromofluorobenzene (4-BFB)	0.0914	0.102	mg/L	1	0.100	91	102	77.9 - 119.8

Matrix Spike (MS-1) Spiked Sample: 232538

QC Batch: 70430
Prep Batch: 60311

Date Analyzed: 2010-05-26
QC Preparation: 2010-05-26

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	15.7	mg/L	50	5.00	11.4572	85	77.3 - 117.4
Toluene	4.66	mg/L	50	5.00	<0.0100	93	75 - 111.8
Ethylbenzene	4.67	mg/L	50	5.00	0.1337	91	78.8 - 106.6
Xylene	13.7	mg/L	50	15.0	<0.0450	91	68.9 - 114

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	16.0	mg/L	50	5.00	11.4572	91	77.3 - 117.4	2	20
Toluene	4.84	mg/L	50	5.00	<0.0100	97	75 - 111.8	4	20
Ethylbenzene	4.86	mg/L	50	5.00	0.1337	94	78.8 - 106.6	4	20
Xylene	14.2	mg/L	50	15.0	<0.0450	95	68.9 - 114	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)	4.55	4.79	mg/L	50	5	91	96	76.3 - 129.8
4-Bromofluorobenzene (4-BFB)	4.60	4.83	mg/L	50	5	92	97	75.2 - 112.8

Matrix Spike (MS-1) Spiked Sample: 232382

QC Batch: 70492
Prep Batch: 60365

Date Analyzed: 2010-05-27
QC Preparation: 2010-05-27

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0904	mg/L	1	0.100	<0.000300	90	77.3 - 117.4
Toluene	0.0904	mg/L	1	0.100	<0.000200	90	75 - 111.8
Ethylbenzene	0.0877	mg/L	1	0.100	<0.000200	88	78.8 - 106.6
Xylene	0.264	mg/L	1	0.300	<0.000900	88	68.9 - 114

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	0.0952	mg/L	1	0.100	<0.000300	95	77.3 - 117.4	5	20
Toluene	0.0954	mg/L	1	0.100	<0.000200	95	75 - 111.8	5	20
Ethylbenzene	0.0925	mg/L	1	0.100	<0.000200	92	78.8 - 106.6	5	20
Xylene	0.279	mg/L	1	0.300	<0.000900	93	68.9 - 114	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)	0.0848	0.0836	mg/L	1	0.1	85	84	76.3 - 129.8

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matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.0864	0.0858	mg/L	1	0.1	86	86	75.2 - 112.8

Standard (CCV-1)

QC Batch: 70430

Date Analyzed: 2010-05-26

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	80 - 120	2010-05-26
Toluene		mg/L	0.100	0.105	105	80 - 120	2010-05-26
Ethylbenzene		mg/L	0.100	0.103	103	80 - 120	2010-05-26
Xylene		mg/L	0.300	0.311	104	80 - 120	2010-05-26

Standard (CCV-2)

QC Batch: 70430

Date Analyzed: 2010-05-26

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0997	100	80 - 120	2010-05-26
Toluene		mg/L	0.100	0.0993	99	80 - 120	2010-05-26
Ethylbenzene		mg/L	0.100	0.0975	98	80 - 120	2010-05-26
Xylene		mg/L	0.300	0.293	98	80 - 120	2010-05-26

Standard (CCV-1)

QC Batch: 70492

Date Analyzed: 2010-05-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0945	94	80 - 120	2010-05-27
Toluene		mg/L	0.100	0.0954	95	80 - 120	2010-05-27
Ethylbenzene		mg/L	0.100	0.0964	96	80 - 120	2010-05-27
Xylene		mg/L	0.300	0.289	96	80 - 120	2010-05-27

Standard (CCV-2)

QC Batch: 70492

Date Analyzed: 2010-05-27

Analyzed By: AG

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0879	88	80 - 120	2010-05-27
Toluene		mg/L	0.100	0.0884	88	80 - 120	2010-05-27
Ethylbenzene		mg/L	0.100	0.0874	87	80 - 120	2010-05-27
Xylene		mg/L	0.300	0.264	88	80 - 120	2010-05-27

Standard (CCV-3)

QC Batch: 70492

Date Analyzed: 2010-05-27

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0944	94	80 - 120	2010-05-27
Toluene		mg/L	0.100	0.0932	93	80 - 120	2010-05-27
Ethylbenzene		mg/L	0.100	0.0919	92	80 - 120	2010-05-27
Xylene		mg/L	0.300	0.276	92	80 - 120	2010-05-27

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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 **El Paso:** T104704221-08-TX **Midland:** T104704392-08-TX
LELAP-02003
Kansas E-10317
LELAP-02002

Analytical and Quality Control Report

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

Report Date: August 24, 2010

Work Order: 10082008



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
241940	MW-56	water	2010-08-18	08:00	2010-08-19
241941	MW-31	water	2010-08-18	08:30	2010-08-19
241942	MW-33	water	2010-08-18	09:00	2010-08-19
241943	MW-15	water	2010-08-18	09:30	2010-08-19
241944	MW-10	water	2010-08-18	10:00	2010-08-19
241945	MW-7	water	2010-08-18	10:30	2010-08-19
241946	MW-32	water	2010-08-18	11:00	2010-08-19
241947	MW-37	water	2010-08-18	11:30	2010-08-19
241948	MW-8	water	2010-08-18	12:00	2010-08-19
241949	MW-28	water	2010-08-18	12:30	2010-08-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241950	MW-3	water	2010-08-18	13:00	2010-08-19
241951	MW-23	water	2010-08-18	13:30	2010-08-19
241952	MW-16	water	2010-08-18	14:00	2010-08-19
241953	MW-4	water	2010-08-18	14:30	2010-08-19
241954	MW-6	water	2010-08-18	15:00	2010-08-19
241955	MW-2	water	2010-08-18	16:00	2010-08-19
241956	MW-38	water	2010-08-18	16:30	2010-08-19
241957	MW-1	water	2010-08-18	17:30	2010-08-19
241958	MW-5	water	2010-08-18	18:30	2010-08-19
241959	MW-13	water	2010-08-18	19:00	2010-08-19

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 19 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 Bob Durham were received by TraceAnalysis, Inc. on 2010-08-19 and assigned to work order 10082008. Samples for work order 10082008 were received intact without headspace and at a temperature of 4.0 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	62417	2010-08-20 at 16:18	72800	2010-08-20 at 16:18
BTEX	S 8021B	62418	2010-08-20 at 16:18	72801	2010-08-20 at 16:18
BTEX	S 8021B	62451	2010-08-23 at 14:48	72842	2010-08-23 at 14:48

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 10082008 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

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Analytical Report

Sample: 241940 - MW-56

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72800
Prep Batch: 62417

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0948	mg/L	1	0.100	95	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0994	mg/L	1	0.100	99	74.5 - 112

Sample: 241941 - MW-31

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72800
Prep Batch: 62417

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0937	mg/L	1	0.100	94	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0952	mg/L	1	0.100	95	74.5 - 112

Sample: 241942 - MW-33

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72800
Prep Batch: 62417

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0950	mg/L	1	0.100	95	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0995	mg/L	1	0.100	100	74.5 - 112

Sample: 241943 - MW-15

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72800
Prep Batch: 62417

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0921	mg/L	1	0.100	92	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0963	mg/L	1	0.100	96	74.5 - 112

Sample: 241944 - MW-10

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00750	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00470	mg/L	1	0.00100
Xylene		0.00320	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0976	mg/L	1	0.100	98	73.8 - 113
4-Bromofluorobenzene (4-BFB)	¹	0.118	mg/L	1	0.100	118	74.5 - 112

Sample: 241945 - MW-7

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72842

Prep Batch: 62451

Analytical Method: S 8021B

Date Analyzed: 2010-08-23

Sample Preparation: 2010-08-23

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	74.5 - 112

Sample: 241946 - MW-32

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72842

Prep Batch: 62451

Analytical Method: S 8021B

Date Analyzed: 2010-08-23

Sample Preparation: 2010-08-23

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00120	mg/L	1	0.00100
Xylene		0.00280	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0947	mg/L	1	0.100	95	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	74.5 - 112

¹High surrogate recovery due to peak interference.

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Sample: 241947 - MW-37

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72800

Prep Batch: 62417

Analytical Method: S 8021B

Date Analyzed: 2010-08-20

Sample Preparation: 2010-08-20

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0927	mg/L	1	0.100	93	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0978	mg/L	1	0.100	98	74.5 - 112

Sample: 241948 - MW-8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72842

Prep Batch: 62451

Analytical Method: S 8021B

Date Analyzed: 2010-08-23

Sample Preparation: 2010-08-23

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00140	mg/L	1	0.00100
Xylene		0.00180	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0961	mg/L	1	0.100	96	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	74.5 - 112

Sample: 241949 - MW-28

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72801

Prep Batch: 62418

Analytical Method: S 8021B

Date Analyzed: 2010-08-20

Sample Preparation: 2010-08-20

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0863	mg/L	1	0.100	86	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0879	mg/L	1	0.100	88	74.5 - 112

Sample: 241950 - MW-3

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72801
Prep Batch: 62418

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0833	mg/L	1	0.100	83	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0843	mg/L	1	0.100	84	74.5 - 112

Sample: 241951 - MW-23

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72801
Prep Batch: 62418

Analytical Method: S 8021B
Date Analyzed: 2010-08-20
Sample Preparation: 2010-08-20

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0916	mg/L	1	0.100	92	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0937	mg/L	1	0.100	94	74.5 - 112

Sample: 241952 - MW-16

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72842

Prep Batch: 62451

Analytical Method: S 8021B

Date Analyzed: 2010-08-23

Sample Preparation: 2010-08-23

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00300	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00160	mg/L	1	0.00100
Xylene		0.00120	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.110	mg/L	1	0.100	110	74.5 - 112

Sample: 241953 - MW-4

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 72842

Prep Batch: 62451

Analytical Method: S 8021B

Date Analyzed: 2010-08-23

Sample Preparation: 2010-08-23

Prep Method: S 5030B

Analyzed By: ER

Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00120	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00460	mg/L	1	0.00100
Xylene		0.00230	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0999	mg/L	1	0.100	100	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	74.5 - 112

Sample: 241954 - MW-6

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0945	mg/L	1	0.100	94	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0997	mg/L	1	0.100	100	74.5 - 112

Sample: 241955 - MW-2

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00190	mg/L	1	0.00100
Xylene		0.00330	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0993	mg/L	1	0.100	99	73.8 - 113
4-Bromofluorobenzene (4-BFB)	²	0.115	mg/L	1	0.100	115	74.5 - 112

Sample: 241956 - MW-38

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

²High surrogate recovery due to peak interference.

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0119	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00290	mg/L	1	0.00100
Xylene		0.00350	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0975	mg/L	1	0.100	98	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	74.5 - 112

Sample: 241957 - MW-1

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00200	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00110	mg/L	1	0.00100
Xylene		0.00300	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0951	mg/L	1	0.100	95	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	74.5 - 112

Sample: 241958 - MW-5

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.00620	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00350	mg/L	1	0.00100
Xylene		0.00380	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0870	mg/L	1	0.100	87	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	74.5 - 112

Sample: 241959 - MW-13

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 72842
Prep Batch: 62451

Analytical Method: S 8021B
Date Analyzed: 2010-08-23
Sample Preparation: 2010-08-23

Prep Method: S 5030B
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0957	mg/L	1	0.100	96	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	74.5 - 112

Method Blank (1) QC Batch: 72800

QC Batch: 72800
Prep Batch: 62417

Date Analyzed: 2010-08-20
QC Preparation: 2010-08-20

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000403	mg/L	0.001
Toluene		<0.000627	mg/L	0.001
Ethylbenzene		<0.000488	mg/L	0.001
Xylene		<0.000622	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0931	mg/L	1	0.100	93	74.5 - 112

Method Blank (1) QC Batch: 72801

QC Batch: 72801 Date Analyzed: 2010-08-20 Analyzed By: ER
Prep Batch: 62418 QC Preparation: 2010-08-20 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000403	mg/L	0.001
Toluene		<0.000627	mg/L	0.001
Ethylbenzene		<0.000488	mg/L	0.001
Xylene		<0.000622	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/L	1	0.100	90	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.0909	mg/L	1	0.100	91	74.5 - 112

Method Blank (1) QC Batch: 72842

QC Batch: 72842 Date Analyzed: 2010-08-23 Analyzed By: ER
Prep Batch: 62451 QC Preparation: 2010-08-23 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000403	mg/L	0.001
Toluene		<0.000627	mg/L	0.001
Ethylbenzene		<0.000488	mg/L	0.001
Xylene		<0.000622	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0954	mg/L	1	0.100	95	73.8 - 113
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	74.5 - 112

Laboratory Control Spike (LCS-1)

QC Batch: 72800 Date Analyzed: 2010-08-20 Analyzed By: ER
Prep Batch: 62417 QC Preparation: 2010-08-20 Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0970	mg/L	1	0.100	<0.000403	97	75 - 117
Toluene	0.0950	mg/L	1	0.100	<0.000627	95	73.5 - 118
Ethylbenzene	0.0965	mg/L	1	0.100	<0.000488	96	74.9 - 113

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Xylene	0.292	mg/L	1	0.300	<0.000622	97	75.5 - 115

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	0.0959	mg/L	1	0.100	<0.000403	96	75 - 117	1	20
Toluene	0.0933	mg/L	1	0.100	<0.000627	93	73.5 - 118	2	20
Ethylbenzene	0.0950	mg/L	1	0.100	<0.000488	95	74.9 - 113	2	20
Xylene	0.287	mg/L	1	0.300	<0.000622	96	75.5 - 115	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)	0.0909	0.0938	mg/L	1	0.100	91	94	74 - 114
4-Bromofluorobenzene (4-BFB)	0.0963	0.0975	mg/L	1	0.100	96	98	75 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 72801
Prep Batch: 62418

Date Analyzed: 2010-08-20
QC Preparation: 2010-08-20

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0960	mg/L	1	0.100	<0.000403	96	75 - 117
Toluene	0.0931	mg/L	1	0.100	<0.000627	93	73.5 - 118
Ethylbenzene	0.0958	mg/L	1	0.100	<0.000488	96	74.9 - 113
Xylene	0.288	mg/L	1	0.300	<0.000622	96	75.5 - 115

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	0.0960	mg/L	1	0.100	<0.000403	96	75 - 117	0	20
Toluene	0.0914	mg/L	1	0.100	<0.000627	91	73.5 - 118	2	20
Ethylbenzene	0.0931	mg/L	1	0.100	<0.000488	93	74.9 - 113	3	20
Xylene	0.282	mg/L	1	0.300	<0.000622	94	75.5 - 115	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)	0.0894	0.0899	mg/L	1	0.100	89	90	74 - 114
4-Bromofluorobenzene (4-BFB)	0.0920	0.0920	mg/L	1	0.100	92	92	75 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 72842
Prep Batch: 62451

Date Analyzed: 2010-08-23
QC Preparation: 2010-08-23

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.101	mg/L	1	0.100	<0.000403	101	75 - 117
Toluene	0.0974	mg/L	1	0.100	<0.000627	97	73.5 - 118
Ethylbenzene	0.0993	mg/L	1	0.100	<0.000488	99	74.9 - 113
Xylene	0.300	mg/L	1	0.300	<0.000622	100	75.5 - 115

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	0.102	mg/L	1	0.100	<0.000403	102	75 - 117	1	20
Toluene	0.0989	mg/L	1	0.100	<0.000627	99	73.5 - 118	2	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000488	100	74.9 - 113	1	20
Xylene	0.303	mg/L	1	0.300	<0.000622	101	75.5 - 115	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0996	0.101	mg/L	1	0.100	100	101	74 - 114
4-Bromofluorobenzene (4-BFB)	0.108	0.106	mg/L	1	0.100	108	106	75 - 114

Matrix Spike (MS-1) Spiked Sample: 241921

QC Batch: 72800
Prep Batch: 62417

Date Analyzed: 2010-08-20
QC Preparation: 2010-08-20

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0954	mg/L	1	0.100	<0.000403	95	55.7 - 127
Toluene	0.0925	mg/L	1	0.100	<0.000627	92	65.5 - 121
Ethylbenzene	0.0942	mg/L	1	0.100	<0.000488	94	47.6 - 126
Xylene	0.282	mg/L	1	0.300	<0.000622	94	51.2 - 126

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	0.0919	mg/L	1	0.100	<0.000403	92	55.7 - 127	4	20
Toluene	0.0901	mg/L	1	0.100	<0.000627	90	65.5 - 121	3	20
Ethylbenzene	0.0925	mg/L	1	0.100	<0.000488	92	47.6 - 126	2	20
Xylene	0.277	mg/L	1	0.300	<0.000622	92	51.2 - 126	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)	0.0931	0.0910	mg/L	1	0.1	93	91	73.7 - 115
4-Bromofluorobenzene (4-BFB)	0.0986	0.0933	mg/L	1	0.1	99	93	72 - 118

Matrix Spike (MS-1) Spiked Sample: 241933

QC Batch: 72801
Prep Batch: 62418

Date Analyzed: 2010-08-20
QC Preparation: 2010-08-20

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0660	mg/L	1	0.100	<0.000403	66	55.7 - 127
Toluene	0.0627	mg/L	1	0.100	<0.000627	63	65.5 - 121
Ethylbenzene	0.0640	mg/L	1	0.100	<0.000488	64	47.6 - 126
Xylene	0.191	mg/L	1	0.300	<0.000622	64	51.2 - 126

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	0.0462	mg/L	1	0.100	<0.000403	46	55.7 - 127	35	20
Toluene	0.0422	mg/L	1	0.100	<0.000627	42	65.5 - 121	39	20
Ethylbenzene	0.0428	mg/L	1	0.100	<0.000488	43	47.6 - 126	40	20
Xylene	0.128	mg/L	1	0.300	<0.000622	43	51.2 - 126	40	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)	0.0858	0.0904	mg/L	1	0.1	86	90	73.7 - 115
4-Bromofluorobenzene (4-BFB)	0.0893	0.0936	mg/L	1	0.1	89	94	72 - 118

Matrix Spike (MS-1) Spiked Sample: 241831

QC Batch: 72842
Prep Batch: 62451

Date Analyzed: 2010-08-23
QC Preparation: 2010-08-23

Analyzed By: ER
Prepared By: ER

continued ...

³Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recovery and RPD out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁵Matrix spike recovery and RPD out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁶Matrix spike recovery and RPD out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

⁷Matrix spike recovery and RPD out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	9.78	mg/L	50	5.00	4.96	96	55.7 - 127
Toluene	30.4	mg/L	50	5.00	25.5	98	65.5 - 121
Ethylbenzene	8.86	mg/L	50	5.00	4.11	95	47.6 - 126
Xylene	27.7	mg/L	50	15.0	12.8	99	51.2 - 126

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	9.98	mg/L	50	5.00	4.96	100	55.7 - 127	2	20
Toluene	30.4	mg/L	50	5.00	25.5	98	65.5 - 121	0	20
Ethylbenzene	8.84	mg/L	50	5.00	4.11	95	47.6 - 126	0	20
Xylene	27.6	mg/L	50	15.0	12.8	99	51.2 - 126	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)	4.86	4.97	mg/L	50	5	97	99	73.7 - 115
4-Bromofluorobenzene (4-BFB)	5.37	5.35	mg/L	50	5	107	107	72 - 118

Standard (CCV-2)

QC Batch: 72800

Date Analyzed: 2010-08-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0947	95	80 - 120	2010-08-20
Toluene		mg/L	0.100	0.0924	92	80 - 120	2010-08-20
Ethylbenzene		mg/L	0.100	0.0936	94	80 - 120	2010-08-20
Xylene		mg/L	0.300	0.282	94	80 - 120	2010-08-20

Standard (CCV-3)

QC Batch: 72800

Date Analyzed: 2010-08-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0978	98	80 - 120	2010-08-20
Toluene		mg/L	0.100	0.0949	95	80 - 120	2010-08-20

continued ...

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ethylbenzene		mg/L	0.100	0.0975	98	80 - 120	2010-08-20
Xylene		mg/L	0.300	0.295	98	80 - 120	2010-08-20

Standard (CCV-1)

QC Batch: 72801

Date Analyzed: 2010-08-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0937	94	80 - 120	2010-08-20
Toluene		mg/L	0.100	0.0880	88	80 - 120	2010-08-20
Ethylbenzene		mg/L	0.100	0.0928	93	80 - 120	2010-08-20
Xylene		mg/L	0.300	0.282	94	80 - 120	2010-08-20

Standard (CCV-2)

QC Batch: 72801

Date Analyzed: 2010-08-20

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0966	97	80 - 120	2010-08-20
Toluene		mg/L	0.100	0.0934	93	80 - 120	2010-08-20
Ethylbenzene		mg/L	0.100	0.0950	95	80 - 120	2010-08-20
Xylene		mg/L	0.300	0.287	96	80 - 120	2010-08-20

Standard (CCV-1)

QC Batch: 72842

Date Analyzed: 2010-08-23

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0980	98	80 - 120	2010-08-23
Toluene		mg/L	0.100	0.0952	95	80 - 120	2010-08-23
Ethylbenzene		mg/L	0.100	0.0976	98	80 - 120	2010-08-23
Xylene		mg/L	0.300	0.295	98	80 - 120	2010-08-23

Standard (CCV-2)

QC Batch: 72842

Date Analyzed: 2010-08-23

Analyzed By: ER

Report Date: August 24, 2010
TNM-LF-2000-7

Work Order: 10082008
Bob Durham

Page Number: 19 of 19
West of Monument, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0996	100	80 - 120	2010-08-23
Toluene		mg/L	0.100	0.0961	96	80 - 120	2010-08-23
Ethylbenzene		mg/L	0.100	0.0962	96	80 - 120	2010-08-23
Xylene		mg/L	0.300	0.291	97	80 - 120	2010-08-23

Standard (CCV-3)

QC Batch: 72842

Date Analyzed: 2010-08-23

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0927	93	80 - 120	2010-08-23
Toluene		mg/L	0.100	0.0950	95	80 - 120	2010-08-23
Ethylbenzene		mg/L	0.100	0.0948	95	80 - 120	2010-08-23
Xylene		mg/L	0.300	0.283	94	80 - 120	2010-08-23

LAB Order ID # 10082008

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Long Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 Commerce Midland Tx 79703 Fax #: 432-520-7701

Contact Person: Bon R. E-mail:

Invoice to:

(If different from above)

Project #:

TUM-LE-2000-7

Project Location (including state):

New Mexico

Project Name:

Bob Durham

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
241940	MW-56	3	100g	X			X			X		8-18	8:00
941	MW-31											8:30	8:30
942	MW-33											9:00	9:00
943	MW-15											9:30	9:30
944	MW-10											10:00	10:00
945	MW-7											10:30	10:30
946	MW-32											11:00	11:00
947	MW-37											11:30	11:30
948	MW-8											12:00	12:00
949	MW-28											12:30	12:30
950	MW-3											13:00	13:00

Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8/19/10</u>	Time: <u>11:54</u>	Received by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8-20-10</u>	Time: <u>9:05 AM</u>	INST OBS <u>32</u>	INST COR <u>4.0</u>
Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8-20-10</u>	Time: <u>11:34</u>	Received by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8-20-10</u>	Time: <u>9:05 AM</u>	INST OBS <u>4.0</u>	INST COR <u>4.0</u>
Relinquished by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8-20-10</u>	Time: <u>11:34</u>	Received by: <u>[Signature]</u>	Company: <u>Trace</u>	Date: <u>8-20-10</u>	Time: <u>9:05 AM</u>	INST OBS <u>4.0</u>	INST COR <u>4.0</u>

ANALYSIS REQUEST (Circle or Specify Method No.)

☒ MTBE 8021 / 602 / 8260 / 624	☒ TPH 418.1 / TX1005 / TX1005 EX(C35)	☒ 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, F1, S04, NO3, NO2, Alkalinity	☒ Na, Ca, Mg, K, TDS, EC	☐ Turn Around Time if different from standard
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REMARKS:

LAB USE ONLY	Initials <u>YN</u>	Headspace <u>Y</u>	Inst. <u>NA</u>
<u>Log-In-Review</u>			
<u>400</u>			
Dry Weight Basis Required ☐			
TRRP Report Required ☐			
Check if Special Reporting Limits Are Needed ☐			



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: tair@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: December 15, 2010

Work Order: 10111714



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
250658	MW-11	water	2010-11-15	09:30	2010-11-17
250659	MW-20	water	2010-11-15	10:00	2010-11-17
250660	MW-21	water	2010-11-15	10:30	2010-11-17
250661	MW-25	water	2010-11-15	11:00	2010-11-17
250662	MW-30	water	2010-11-15	11:30	2010-11-17
250663	MW-24	water	2010-11-15	12:00	2010-11-17
250664	MW-27	water	2010-11-15	12:30	2010-11-17
250665	MW-56	water	2010-11-15	13:00	2010-11-17
250666	MW-31	water	2010-11-15	13:30	2010-11-17
250667	MW-33	water	2010-11-15	14:00	2010-11-17

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
250668	MW-15	water	2010-11-15	14:30	2010-11-17
250669	MW-7	water	2010-11-15	15:00	2010-11-17
250670	MW-32	water	2010-11-15	15:30	2010-11-17
250671	MW-37	water	2010-11-15	16:00	2010-11-17
250672	MW-8	water	2010-11-15	16:30	2010-11-17
250673	MW-28	water	2010-11-15	17:00	2010-11-17
250674	MW-23	water	2010-11-15	17:30	2010-11-17
250675	MW-6	water	2010-11-16	07:30	2010-11-17
250676	MW-13	water	2010-11-16	08:00	2010-11-17
250677	MW-2	water	2010-11-16	08:30	2010-11-17
250678	MW-4	water	2010-11-16	09:00	2010-11-17
250679	MW-1	water	2010-11-16	10:00	2010-11-17
250680	MW-16	water	2010-11-16	11:00	2010-11-17
250681	MW-5	water	2010-11-16	12:00	2010-11-17
250682	MW-10	water	2010-11-16	13:00	2010-11-17
250683	MW-38	water	2010-11-16	13:30	2010-11-17
250684	MW-3	water	2010-11-16	15:00	2010-11-17

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 26 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 Bob Durham were received by TraceAnalysis, Inc. on 2010-11-17 and assigned to work order 10111714. Samples for work order 10111714 were received intact without headspace and at a temperature of 2.0 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	64752	2010-11-18 at 09:00	75494	2010-11-18 at 10:14
BTEX	S 8021B	64793	2010-11-19 at 09:00	75536	2010-11-19 at 09:45
BTEX	S 8021B	64793	2010-11-19 at 09:00	75537	2010-11-20 at 03:56
PAH	S 8270D	65172	2010-11-19 at 15:00	75984	2010-12-09 at 10:33

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 10111714 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: 250658 - MW-11

Laboratory: Midland
Analysis: BTEX
QC Batch: 75494
Prep Batch: 64752

Analytical Method: S 8021B
Date Analyzed: 2010-11-18
Sample Preparation: 2010-11-18

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.110	mg/L	1	0.100	110	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	51.1 - 128

Sample: 250659 - MW-20

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 250660 - MW-21

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	51.1 - 128

Sample: 250661 - MW-25

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 250662 - MW-30

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.109	mg/L	1	0.100	109	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.109	mg/L	1	0.100	109	51.1 - 128

Sample: 250663 - MW-24

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

Sample: 250664 - MW-27

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

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Sample: 250665 - MW-56

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

Sample: 250666 - MW-31

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	51.1 - 128

Sample: 250667 - MW-33

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	51.1 - 128

Sample: 250668 - MW-15

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	51.1 - 128

Sample: 250669 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	51.1 - 128

Sample: 250670 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.100	mg/L	1	0.100	100	51.1 - 128

Sample: 250671 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

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Sample: 250672 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.103	mg/L	1	0.100	103	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 250673 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	51.1 - 128

Sample: 250674 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 75536
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-19
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	51.1 - 128

Sample: 250675 - MW-6

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.104	mg/L	1	0.100	104	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 250676 - MW-13

Laboratory: Midland

Analysis: BTEX

QC Batch: 75536

Prep Batch: 64793

Analytical Method: S 8021B

Date Analyzed: 2010-11-19

Sample Preparation: 2010-11-19

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	51.1 - 128

Sample: 250677 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.127	mg/L	1	0.100	127	51.1 - 128

Sample: 250678 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.107	mg/L	1	0.100	107	51.1 - 128

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Sample: 250679 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0103	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00530	mg/L	1	0.00100
Xylene		0.0109	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.112	mg/L	1	0.100	112	51.1 - 128

Sample: 250679 - MW-1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 75984
Prep Batch: 65172

Analytical Method: S 8270D
Date Analyzed: 2010-12-09
Sample Preparation: 2010-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.000404	mg/L	0.922	0.000200
2-Methylnaphthalene		0.000268	mg/L	0.922	0.000200
1-Methylnaphthalene		0.00103	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.000452	mg/L	0.922	0.000200
Fluorene		0.000465	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		<0.000184	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200

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sample 250679 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0433	mg/L	0.922	0.0800	54	10 - 111
2-Fluorobiphenyl		0.0466	mg/L	0.922	0.0800	58	10 - 92.7
Terphenyl-d14		0.0436	mg/L	0.922	0.0800	54	35.9 - 107

Sample: 250680 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0838	mg/L	1	0.100	84	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0902	mg/L	1	0.100	90	51.1 - 128

Sample: 250681 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0355	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00770	mg/L	1	0.00100
Xylene		0.00850	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.100	mg/L	1	0.100	100	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.118	mg/L	1	0.100	118	51.1 - 128

Sample: 250681 - MW-5

Laboratory: Lubbock
Analysis: PAH
QC Batch: 75984
Prep Batch: 65172

Analytical Method: S 8270D
Date Analyzed: 2010-12-09
Sample Preparation: 2010-11-19

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	RL Result	Units	Dilution	RL
Naphthalene		0.00532	mg/L	0.922	0.000200
2-Methylnaphthalene		0.00626	mg/L	0.922	0.000200
1-Methylnaphthalene		0.00962	mg/L	0.922	0.000200
Acenaphthylene		<0.000184	mg/L	0.922	0.000200
Acenaphthene		<0.000184	mg/L	0.922	0.000200
Dibenzofuran		0.000806	mg/L	0.922	0.000200
Fluorene		0.00132	mg/L	0.922	0.000200
Anthracene		<0.000184	mg/L	0.922	0.000200
Phenanthrene		0.000798	mg/L	0.922	0.000200
Fluoranthene		<0.000184	mg/L	0.922	0.000200
Pyrene		<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene		<0.000184	mg/L	0.922	0.000200
Chrysene		<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene		<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene		<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene		<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene		<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0253	mg/L	0.922	0.0800	32	10 - 111
2-Fluorobiphenyl		0.0371	mg/L	0.922	0.0800	46	10 - 92.7
Terphenyl-d14		0.0421	mg/L	0.922	0.0800	53	35.9 - 107

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Sample: 250682 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.105	mg/L	1	0.100	105	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

Sample: 250683 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0141	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	51.1 - 128

Sample: 250684 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 75537
Prep Batch: 64793

Analytical Method: S 8021B
Date Analyzed: 2010-11-20
Sample Preparation: 2010-11-19

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0999	mg/L	1	0.100	100	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0998	mg/L	1	0.100	100	51.1 - 128

Method Blank (1) QC Batch: 75494

QC Batch: 75494
Prep Batch: 64752

Date Analyzed: 2010-11-18
QC Preparation: 2010-11-18

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000600	mg/L	0.001
Toluene		<0.000600	mg/L	0.001
Ethylbenzene		<0.000800	mg/L	0.001
Xylene		<0.000767	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	47.3 - 116

Method Blank (1) QC Batch: 75536

QC Batch: 75536
Prep Batch: 64793

Date Analyzed: 2010-11-19
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000600	mg/L	0.001
Toluene		<0.000600	mg/L	0.001
Ethylbenzene		<0.000800	mg/L	0.001
Xylene		<0.000767	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	47.3 - 116

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Method Blank (1) QC Batch: 75537

QC Batch: 75537
Prep Batch: 64793

Date Analyzed: 2010-11-20
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL	Units	RL
		Result		
Benzene		<0.000600	mg/L	0.001
Toluene		<0.000600	mg/L	0.001
Ethylbenzene		<0.000800	mg/L	0.001
Xylene		<0.000767	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0986	mg/L	1	0.100	99	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	47.3 - 116

Method Blank (1) QC Batch: 75984

QC Batch: 75984
Prep Batch: 65172

Date Analyzed: 2010-12-09
QC Preparation: 2010-11-19

Analyzed By: MN
Prepared By: MN

Parameter	Flag	MDL	Units	RL
		Result		
Naphthalene		<0.0000784	mg/L	0.0002
2-Methylnaphthalene		<0.0000747	mg/L	0.0002
1-Methylnaphthalene		<0.0000575	mg/L	0.0002
Acenaphthylene		<0.0000963	mg/L	0.0002
Acenaphthene		<0.0000617	mg/L	0.0002
Dibenzofuran		<0.0000952	mg/L	0.0002
Fluorene		<0.000134	mg/L	0.0002
Anthracene		<0.000441	mg/L	0.0002
Phenanthrene		<0.000435	mg/L	0.0002
Fluoranthene		<0.000476	mg/L	0.0002
Pyrene		<0.000590	mg/L	0.0002
Benzo(a)anthracene		<0.000118	mg/L	0.0002
Chrysene		<0.0000766	mg/L	0.0002
Benzo(b)fluoranthene		<0.000146	mg/L	0.0002
Benzo(k)fluoranthene		<0.000141	mg/L	0.0002
Benzo(a)pyrene		<0.000132	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		<0.0000702	mg/L	0.0002
Dibenzo(a,h)anthracene		<0.0000534	mg/L	0.0002
Benzo(g,h,i)perylene		<0.0000473	mg/L	0.0002

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		0.0345	mg/L	1	0.0800	43	10 - 111
2-Fluorobiphenyl		0.0405	mg/L	1	0.0800	51	10 - 92.7
Terphenyl-d14		0.0424	mg/L	1	0.0800	53	35.9 - 107

Laboratory Control Spike (LCS-1)

QC Batch: 75494
Prep Batch: 64752

Date Analyzed: 2010-11-18
QC Preparation: 2010-11-18

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0911	mg/L	1	0.100	<0.000600	91	82.9 - 118
Toluene	0.0921	mg/L	1	0.100	<0.000600	92	82.7 - 117
Ethylbenzene	0.0946	mg/L	1	0.100	<0.000800	95	78.8 - 116
Xylene	0.286	mg/L	1	0.300	<0.000767	95	79.3 - 116

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	0.0941	mg/L	1	0.100	<0.000600	94	82.9 - 118	3	20
Toluene	0.0945	mg/L	1	0.100	<0.000600	94	82.7 - 117	3	20
Ethylbenzene	0.0956	mg/L	1	0.100	<0.000800	96	78.8 - 116	1	20
Xylene	0.292	mg/L	1	0.300	<0.000767	97	79.3 - 116	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)	0.102	0.0995	mg/L	1	0.100	102	100	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.106	0.104	mg/L	1	0.100	106	104	68.2 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 75536
Prep Batch: 64793

Date Analyzed: 2010-11-19
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0875	mg/L	1	0.100	<0.000600	88	82.9 - 118
Toluene	0.0875	mg/L	1	0.100	<0.000600	88	82.7 - 117
Ethylbenzene	0.0902	mg/L	1	0.100	<0.000800	90	78.8 - 116
Xylene	0.273	mg/L	1	0.300	<0.000767	91	79.3 - 116

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

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0894	mg/L	1	0.100	<0.000600	89	82.9 - 118	2	20
Toluene	0.0893	mg/L	1	0.100	<0.000600	89	82.7 - 117	2	20
Ethylbenzene	0.0930	mg/L	1	0.100	<0.000800	93	78.8 - 116	3	20
Xylene	0.282	mg/L	1	0.300	<0.000767	94	79.3 - 116	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)	0.101	0.108	mg/L	1	0.100	101	108	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.104	0.111	mg/L	1	0.100	104	111	68.2 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 75537
Prep Batch: 64793

Date Analyzed: 2010-11-20
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0944	mg/L	1	0.100	<0.000600	94	82.9 - 118
Toluene	0.0939	mg/L	1	0.100	<0.000600	94	82.7 - 117
Ethylbenzene	0.0947	mg/L	1	0.100	<0.000800	95	78.8 - 116
Xylene	0.289	mg/L	1	0.300	<0.000767	96	79.3 - 116

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	0.0929	mg/L	1	0.100	<0.000600	93	82.9 - 118	2	20
Toluene	0.0921	mg/L	1	0.100	<0.000600	92	82.7 - 117	2	20
Ethylbenzene	0.0950	mg/L	1	0.100	<0.000800	95	78.8 - 116	0	20
Xylene	0.287	mg/L	1	0.300	<0.000767	96	79.3 - 116	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0878	0.0892	mg/L	1	0.100	88	89	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.0932	0.0939	mg/L	1	0.100	93	94	68.2 - 134

Laboratory Control Spike (LCS-1)

QC Batch: 75984
Prep Batch: 65172

Date Analyzed: 2010-12-09
QC Preparation: 2010-11-19

Analyzed By: MN
Prepared By: MN

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene	0.0338	mg/L	1	0.0800	<0.0000784	42	32.2 - 80.3
2-Methylnaphthalene	0.0346	mg/L	1	0.0800	<0.0000747	43	34.8 - 87
1-Methylnaphthalene	0.0353	mg/L	1	0.0800	<0.0000575	44	36.9 - 89.6
Acenaphthylene	0.0468	mg/L	1	0.0800	<0.0000963	58	35 - 93.2
Acenaphthene	0.0446	mg/L	1	0.0800	<0.0000617	56	35.8 - 92.9
Dibenzofuran	0.0418	mg/L	1	0.0800	<0.0000952	52	35.3 - 85.1
Fluorene	0.0546	mg/L	1	0.0800	<0.000134	68	43.4 - 101
Anthracene	0.0530	mg/L	1	0.0800	<0.000441	66	44.8 - 92.4
Phenanthrene	0.0575	mg/L	1	0.0800	<0.000435	72	44 - 93.7
Fluoranthene	0.0682	mg/L	1	0.0800	<0.000476	85	52.7 - 104
Pyrene	0.0456	mg/L	1	0.0800	<0.000590	57	42.2 - 93.8
Benzo(a)anthracene	0.0524	mg/L	1	0.0800	<0.000118	66	40.4 - 91.9
Chrysene	0.0777	mg/L	1	0.0800	<0.0000766	97	44.4 - 107
Benzo(b)fluoranthene	0.0370	mg/L	1	0.0800	<0.000146	46	34.8 - 105
Benzo(k)fluoranthene	¹ 0.0324	mg/L	1	0.0800	<0.000141	40	50.2 - 158
Benzo(a)pyrene	² 0.0395	mg/L	1	0.0800	<0.000132	49	51.3 - 151
Indeno(1,2,3-cd)pyrene	0.0397	mg/L	1	0.0800	<0.0000702	50	43.2 - 115
Dibenzo(a,h)anthracene	0.0550	mg/L	1	0.0800	<0.0000534	69	43.9 - 115
Benzo(g,h,i)perylene	0.0387	mg/L	1	0.0800	<0.0000473	48	45.1 - 115

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
Naphthalene	0.0347	mg/L	1	0.0800	<0.0000784	43	32.2 - 80.3	3	20
2-Methylnaphthalene	0.0349	mg/L	1	0.0800	<0.0000747	44	34.8 - 87	1	20
1-Methylnaphthalene	0.0353	mg/L	1	0.0800	<0.0000575	44	36.9 - 89.6	0	20
Acenaphthylene	0.0482	mg/L	1	0.0800	<0.0000963	60	35 - 93.2	3	20
Acenaphthene	0.0462	mg/L	1	0.0800	<0.0000617	58	35.8 - 92.9	4	20
Dibenzofuran	0.0430	mg/L	1	0.0800	<0.0000952	54	35.3 - 85.1	3	20
Fluorene	0.0568	mg/L	1	0.0800	<0.000134	71	43.4 - 101	4	20
Anthracene	0.0518	mg/L	1	0.0800	<0.000441	65	44.8 - 92.4	2	20
Phenanthrene	0.0563	mg/L	1	0.0800	<0.000435	70	44 - 93.7	2	20
Fluoranthene	0.0669	mg/L	1	0.0800	<0.000476	84	52.7 - 104	2	20
Pyrene	0.0459	mg/L	1	0.0800	<0.000590	57	42.2 - 93.8	1	20
Benzo(a)anthracene	0.0544	mg/L	1	0.0800	<0.000118	68	40.4 - 91.9	4	20
Chrysene	0.0801	mg/L	1	0.0800	<0.0000766	100	44.4 - 107	3	20
Benzo(b)fluoranthene	0.0389	mg/L	1	0.0800	<0.000146	49	34.8 - 105	5	20
Benzo(k)fluoranthene	³ 0.0331	mg/L	1	0.0800	<0.000141	41	50.2 - 158	2	20
Benzo(a)pyrene	⁴ 0.0400	mg/L	1	0.0800	<0.000132	50	51.3 - 151	1	20
Indeno(1,2,3-cd)pyrene	0.0414	mg/L	1	0.0800	<0.0000702	52	43.2 - 115	4	20
Dibenzo(a,h)anthracene	0.0556	mg/L	1	0.0800	<0.0000534	70	43.9 - 115	1	20

continued ...

¹Spike analyte out of control limits. Results biased low. •

²Spike analyte out of control limits. Results biased low. •

³Spike analyte out of control limits. Results biased low. •

⁴Spike analyte out of control limits. Results biased low. •

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TNM-LF-2000-07

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control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(g,h,i)perylene	0.0396	mg/L	1	0.0800	<0.0000473	50	45.1 - 115	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0401	0.0412	mg/L	1	0.0800	50	52	10 - 111
2-Fluorobiphenyl	0.0450	0.0473	mg/L	1	0.0800	56	59	10 - 92.7
Terphenyl-d14	0.0583	0.0600	mg/L	1	0.0800	73	75	35.9 - 107

Matrix Spike (MS-1) Spiked Sample: 250621

QC Batch: 75494
Prep Batch: 64752

Date Analyzed: 2010-11-18
QC Preparation: 2010-11-18

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.432	mg/L	1	0.500	0.0196	82	77.9 - 114
Toluene	0.455	mg/L	1	0.500	<0.000600	91	78.3 - 111
Ethylbenzene	0.459	mg/L	1	0.500	<0.000800	92	75.3 - 110
Xylene	1.42	mg/L	1	1.50	0.042	92	75.7 - 109

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	0.427	mg/L	1	0.500	0.0196	81	77.9 - 114	1	20
Toluene	0.454	mg/L	1	0.500	<0.000600	91	78.3 - 111	0	20
Ethylbenzene	0.460	mg/L	1	0.500	<0.000800	92	75.3 - 110	0	20
Xylene	1.42	mg/L	1	1.50	0.042	92	75.7 - 109	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)	0.491	0.477	mg/L	1	0.5	98	95	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.524	0.509	mg/L	1	0.5	105	102	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 250620

QC Batch: 75536
Prep Batch: 64793

Date Analyzed: 2010-11-19
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	6.45	mg/L	20	2.00	4.6697	89	77.9 - 114
Toluene	3.92	mg/L	20	2.00	2.151	88	78.3 - 111
Ethylbenzene	2.62	mg/L	20	2.00	0.8029	91	75.3 - 110
Xylene	6.16	mg/L	20	6.00	0.7581	90	75.7 - 109

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	6.49	mg/L	20	2.00	4.6697	91	77.9 - 114	1	20
Toluene	4.00	mg/L	20	2.00	2.151	92	78.3 - 111	2	20
Ethylbenzene	2.72	mg/L	20	2.00	0.8029	96	75.3 - 110	4	20
Xylene	6.41	mg/L	20	6.00	0.7581	94	75.7 - 109	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)	1.93	1.98	mg/L	20	2	96	99	68.3 - 107
4-Bromofluorobenzene (4-BFB)	2.04	2.14	mg/L	20	2	102	107	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 250683

QC Batch: 75537
Prep Batch: 64793

Date Analyzed: 2010-11-20
QC Preparation: 2010-11-19

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	0.0141	95	77.9 - 114
Toluene	0.0951	mg/L	1	0.100	<0.000600	95	78.3 - 111
Ethylbenzene	0.0922	mg/L	1	0.100	<0.000800	92	75.3 - 110
Xylene	0.275	mg/L	1	0.300	<0.000767	92	75.7 - 109

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	0.110	mg/L	1	0.100	0.0141	96	77.9 - 114	1	20
Toluene	0.0960	mg/L	1	0.100	<0.000600	96	78.3 - 111	1	20
Ethylbenzene	0.0929	mg/L	1	0.100	<0.000800	93	75.3 - 110	1	20
Xylene	0.278	mg/L	1	0.300	<0.000767	93	75.7 - 109	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0996	0.0971	mg/L	1	0.1	100	97	68.3 - 107

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.115	0.112	mg/L	1	0.1	115	112	60.1 - 135

Standard (CCV-1)

QC Batch: 75494

Date Analyzed: 2010-11-18

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0928	93	80 - 120	2010-11-18
Toluene		mg/L	0.100	0.0936	94	80 - 120	2010-11-18
Ethylbenzene		mg/L	0.100	0.0971	97	80 - 120	2010-11-18
Xylene		mg/L	0.300	0.296	99	80 - 120	2010-11-18

Standard (CCV-2)

QC Batch: 75494

Date Analyzed: 2010-11-18

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0940	94	80 - 120	2010-11-18
Toluene		mg/L	0.100	0.0943	94	80 - 120	2010-11-18
Ethylbenzene		mg/L	0.100	0.0977	98	80 - 120	2010-11-18
Xylene		mg/L	0.300	0.295	98	80 - 120	2010-11-18

Standard (CCV-1)

QC Batch: 75536

Date Analyzed: 2010-11-19

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0924	92	80 - 120	2010-11-19
Toluene		mg/L	0.100	0.0908	91	80 - 120	2010-11-19
Ethylbenzene		mg/L	0.100	0.0931	93	80 - 120	2010-11-19
Xylene		mg/L	0.300	0.282	94	80 - 120	2010-11-19

Standard (CCV-2)

QC Batch: 75536

Date Analyzed: 2010-11-19

Analyzed By: AG

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0917	92	80 - 120	2010-11-19
Toluene		mg/L	0.100	0.0907	91	80 - 120	2010-11-19
Ethylbenzene		mg/L	0.100	0.0933	93	80 - 120	2010-11-19
Xylene		mg/L	0.300	0.282	94	80 - 120	2010-11-19

Standard (CCV-3)

QC Batch: 75536

Date Analyzed: 2010-11-19

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0876	88	80 - 120	2010-11-19
Toluene		mg/L	0.100	0.0872	87	80 - 120	2010-11-19
Ethylbenzene		mg/L	0.100	0.0894	89	80 - 120	2010-11-19
Xylene		mg/L	0.300	0.270	90	80 - 120	2010-11-19

Standard (CCV-1)

QC Batch: 75537

Date Analyzed: 2010-11-20

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0890	89	80 - 120	2010-11-20
Toluene		mg/L	0.100	0.0884	88	80 - 120	2010-11-20
Ethylbenzene		mg/L	0.100	0.0892	89	80 - 120	2010-11-20
Xylene		mg/L	0.300	0.273	91	80 - 120	2010-11-20

Standard (CCV-2)

QC Batch: 75537

Date Analyzed: 2010-11-20

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0938	94	80 - 120	2010-11-20
Toluene		mg/L	0.100	0.0935	94	80 - 120	2010-11-20
Ethylbenzene		mg/L	0.100	0.0947	95	80 - 120	2010-11-20
Xylene		mg/L	0.300	0.288	96	80 - 120	2010-11-20

Standard (CCV-1)

QC Batch: 75984

Date Analyzed: 2010-12-09

Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60.0	50.8	85	80 - 120	2010-12-09
2-Methylnaphthalene		mg/L	60.0	51.2	85	80 - 120	2010-12-09
1-Methylnaphthalene		mg/L	60.0	48.8	81	80 - 120	2010-12-09
Acenaphthylene		mg/L	60.0	50.8	85	80 - 120	2010-12-09
Acenaphthene		mg/L	60.0	50.6	84	80 - 120	2010-12-09
Dibenzofuran		mg/L	60.0	55.0	92	80 - 120	2010-12-09
Fluorene		mg/L	60.0	55.9	93	80 - 120	2010-12-09
Anthracene		mg/L	60.0	49.1	82	80 - 120	2010-12-09
Phenanthrene		mg/L	60.0	51.9	86	80 - 120	2010-12-09
Fluoranthene		mg/L	60.0	49.3	82	80 - 120	2010-12-09
Pyrene		mg/L	60.0	54.4	91	80 - 120	2010-12-09
Benzo(a)anthracene		mg/L	60.0	53.5	89	80 - 120	2010-12-09
Chrysene		mg/L	60.0	49.2	82	80 - 120	2010-12-09
Benzo(b)fluoranthene		mg/L	60.0	52.7	88	80 - 120	2010-12-09
Benzo(k)fluoranthene		mg/L	60.0	49.2	82	80 - 120	2010-12-09
Benzo(a)pyrene		mg/L	60.0	54.0	90	80 - 120	2010-12-09
Indeno(1,2,3-cd)pyrene		mg/L	60.0	51.0	85	80 - 120	2010-12-09
Dibenzo(a,h)anthracene		mg/L	60.0	51.3	86	80 - 120	2010-12-09
Benzo(g,h,i)perylene		mg/L	60.0	52.2	87	80 - 120	2010-12-09

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5		64.0	mg/L	1	60.0	107	80 - 120
2-Fluorobiphenyl		52.3	mg/L	1	60.0	87	80 - 120
Terphenyl-d14		57.4	mg/L	1	60.0	96	80 - 120

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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El Paso, Texas 79922
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Fax (915) 585-4944
1 (888) 588-3443

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

Company Name:

Phone #:

Address: (Street, City, Zip)

Fax #:

2057 Commerce Midland TX 79703

E-mail:

Project Person:

Invoice to:

Project #:

Project Name:

Project Location (including state):

Sampler Signature:

New Mexico

Bob Dierham

LAB # (LAB USE) ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE	SAMPLING	DATE	TIME
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65068	mw-11	3	1000	X	HCl	X	11-15	9:10
659	mw-20				HNO ₃			10:00
660	mw-21				H ₂ SO ₄			10:30
661	mw-25				NaOH			11:00
662	mw-30				ICE			11:30
663	mw-24				NONE			12:00
664	mw-27							12:30
665	mw-54							13:00
666	mw-31							13:30
667	mw-33							14:00
668	mw-15							14:30

MTBE	8021 / 602 / 8260 / 624
TEX 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, F, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE	SAMPLING	DATE	TIME
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LAB USE ONLY

REMARKS:

Midland - BTEX
Lubbock - PAH

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST OBS

LAB USE ONLY

REMARKS:

Midland - BTEX
Lubbock - PAH

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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1 (800) 378-1296

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

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name:

Phone #:

ANALYSIS REQUEST

432-520-7780

(Circle or Specify Method No.)

Turn Around Time if different from standard

Address: (Street, City, Zip)
2057 Commerce Midland TX 79705

Fax #:

432-520-7701

Project Name: 1711-15-2000-7

Invoice to:

Project #:

1711-15-2000-7

Project Location (including state): New Mexico

Contact Person:

Project Name:

Bob Davidson

Sample Signature: B. Davidson

Project #:

Project Name:

1711-15-2000-7

Sample Signature: B. Davidson

Project Location (including state): New Mexico

Project Name:

1711-15-2000-7

Sample Signature: B. Davidson

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		DATE	TIME	MTBE 8021 / 602 / 8260 / 624	TEX 802 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	DRO / 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, FI, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE																							

200661	mw-7	3	100	X				X									11-15	15:00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</
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Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	LAB USE ONLY	REMARKS:
11-17	11-17	8:15	8:15	11-17	11-17	8:15	8:15	INST	OBS	COR	LAB USE ONLY	REMARKS:

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	LAB USE ONLY	REMARKS:
11-17	11-17	8:15	8:15	11-17	11-17	8:15	8:15	INST	OBS	COR	LAB USE ONLY	REMARKS:

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	LAB USE ONLY	REMARKS:
11-17	11-17	8:15	8:15	11-17	11-17	8:15	8:15	INST	OBS	COR	LAB USE ONLY	REMARKS:

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST	OBS	COR	LAB USE ONLY	REMARKS:
11-17	11-17	8:15	8:15	11-17	11-17	8:15	8:15	INST	OBS	COR	LAB USE ONLY	REMARKS:

Carrier # 10111714

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

LAB Order ID # 10111714

Page 3 of 3

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443BioQuantic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:

LNUA

Phone #:

432-520-7720

Address: (Street, City, Zip)

2057 Commerce Midland TX 79703

Fax #:

432-520-7701

Contact Person:

Ron R.

E-mail:

Invoice to:
(If different from above)

Project #:

TUV-1E-2000-7

Project Name:

Project Location (including state):

New Mexico

Sampler Signature:

Bob Durham

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume / Amount

WATER
SOIL
AIR
SLUDGE

MATRIX

PRESERVATIVE
METHOD

SAMPLING

HCl
HNO₃
H₂SO₄
NaOH
ICE
NONEDATE
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, F, S04, NO3, NO2, Alkalinity

Na, Ca, Mg, K, TDS, EC

Turn Around Time if different from standard

Hold

(Circle or Specify Method No.)

ANALYSIS REQUEST

Company Name:		100VA		Phone #:		432-520-7720	
Address:		(Street, City, Zip)		Fax #:		432-520-7701	
2057 Commerce Midland TX 79703							
Contact Person:		Ron R.		E-mail:			
Invoice to:		(if different from above)		Project Name:		Bob Buchanan	
Project #:		TMY-LE-2000-7		Project Location (including state):		New Mexico	
Project Location (including state):		New Mexico		Sampler Signature:		[Signature]	
LAB # (LAB USE ONLY)		FIELD CODE		# CONTAINERS		Volume / Amount	
250680		mu-16		3		wa X	
681		mu-5		4			
682		mu-10		3			
683		mu-38					
684		mu-3					

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST
OBS 2.0 °C
COR 2.0 °C

LAB USE ONLY

REMARKS:

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST
OBS 2.0 °C
COR 2.0 °C

Inlet: 0/LN

Headspace: Y/N/NA

Relinquished by:

Company:

Date:

Time:

Received by:

Company:

Date:

Time:

INST
OBS 2.0 °C
COR 2.0 °C

Log-in-Review

☐ 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.

ORIGINAL COPY

Carrier #

any

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

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

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name: WVGA Phone #: 432-520-7720
Address: (Street, City, Zip) Fax #: 432-520-7701
2057 Commerce Midland TX 79703
Contact Person: Ron R. E-mail: _____

Invoice to: _____
(if different from above)
Project #: TWH-LF-2000-7 Project Name: Bob Durham
Project Location (including state): New Mexico Sampler Signature: P.A. [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME
			WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE
20008	mw-11	3	X				X			X	11-15 9:30
6009	mw-20										10:00
6010	mw-21										10:30
6011	mw-25										11:00
6012	mw-30										11:30
6013	mw-24										12:00
6014	mw-27										12:30
6015	mw-56										13:00
6016	mw-31										13:30
6017	mw-33										14:00
6018	mw-15										14:30

Relinquished by: [Signature] Company: WVGA Date: 11-17-10 Time: 8:15
Received by: [Signature] Company: Trace Date: 11-17-10 Time: 8:15
OBS 2.0 COR 2.0

Relinquished by: [Signature] Company: Trace Date: 11-18-10 Time: 9:20
Received by: [Signature] Company: Trace Date: 11-18-10 Time: 9:20
OBS 0.8 COR 0.8

Relinquished by: [Signature] Company: Trace Date: 11-17-10 Time: 17:00
Received by: [Signature] Company: Trace Date: 11-17-10 Time: 17:00
OBS 0.8 COR 0.8

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021 / 602 / 8260 / 624	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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LAB USE ONLY
Inlet ☒ / N/A
Headspace ☒ / N/A
Log-In-Review ☒

REMARKS: BTEX
X Midland - [Signature]
X Lubbock - PHH

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

TraceAnalysis, Inc.

TraceAnalysis, Inc.
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6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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

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

Company Name:

1204
(Street, City, Zip)
Phone #: 432-520-7720

Fax #:

Address: 2057 Commence Midland TX 79703
(Street, City, Zip)
Fax #: 432-530-7770

E-mail:

Invoice to:

(If different from above)

Project #:

IT7M-LF-2000-7

Project Location (including state): 11111 1st St

Project Name: Bob Buchanan
Sampler Signature: Bob Buchanan

New Mexico

[illegible]

Relinquished by: _____ Company: _____

Relinquished by: [Signature] Company: Lawrence

Relinquished by: Bob My TA Company: TA

Time:

Time: 8:13

Time: 17:00

Date:

Date: 11-17-11

Date: 11-18

INST

INST OBS 2.00 COR 2.00

INST	TR
OBS	0.9
COR	0.9

REMARKS:

LAB USE ONLY

ntac(Y) N

1

Headspace Y/N/NA

Log-in-Review

3

Year	Number of people (millions)
1980	20
1985	22
1990	24
1995	26
2000	28
2005	30
2010	32
2015	34
2020	38

ANALYSIS REQUEST

2000

MTBE	8021 / 602 / 8260 / 624
BTX 802	602 / 8260 / 624
TPH 418.1 / TX1005	TX1005 Exlt(C35)
GCRO / DRO / TVHC	PAH 8270 / 625
Total Metals Ag As Ba Cd Cr Pb Se Hg	6010/200.7
TCVP Volatiles	
TCVP Semi Volatiles	
TCVP 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, F, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time	if different from standard

MTE	TPH	TPH	PAH	Total	TCL	TCL	TCL	RCI	GC/N	GC/N	PCB	Positi	BOD	Moist	Cl, F	Na, C	Turn a	Hold
-----	-----	-----	-----	-------	-----	-----	-----	-----	------	------	-----	--------	-----	-------	-------	-------	--------	------

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

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: a control group and an experimental group. The control group received a standard diet, while the experimental group received a diet supplemented with 10% of the total energy from fat. The subjects were then divided into two subgroups: a control subgroup and an experimental subgroup. The control subgroup received a standard diet, while the experimental subgroup received a diet supplemented with 10% of the total energy from fat. The subjects were then divided into two subgroups: a control subgroup and an experimental subgroup. The control subgroup received a standard diet, while the experimental subgroup received a diet supplemented with 10% of the total energy from fat.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
† (800) 378-1296

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

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

Company Name: NOVA Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 Commerce Midland TX 79703 Fax #: 432-520-7701
Contact Person: 0 B E-mail: _____

Invoice to: Mon K. I
(If different from above)
Project #: 144-LF-2000-7
Project Name: Bob Ducham
Project Location (including state):
Sampler Signature: _____

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
680	mw-16	3	veg	X				X						11-16	11:00
681	mw-5	4	↓	↓				↓						↓	12:00
682	mw-10	3	↓	↓				↓						↓	13:00
683	mw-38	↓	↓	↓				↓						↓	13:30
684	mw-3	↓	↓	↓				↓						↓	15:00

	Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
	[Signature]	Sony	11-17	8:15	Cory	M	11-17	6:15	OBS COR
	Relinquished by [Signature]	Company:	Date:	Time:	Received by:	Trace	Date:	Time:	INST OBS COR
	[Signature]	TA	11-17-08	17:00	LaudFox	Lbk	11-18-10	9:20	OBS COR
	Relinquished by [Signature]	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST OBS COR

ANALYSIS REQUEST

	MTBE	8021 / 602 / 8260 / 624
	BTEX	8021 / 602 / 8260 / 624
	TPH	418.1 / TX1005 Exl(C35)
	TPH	8015 GRO / DRO / TVHC
	PAH	8270 / 625
	Total Metals	Ag As Ba Cd Cr Pb Se Hg 6010/200.7
	TCLP Volatiles	
	TCLP Semi Volatiles	
	TCLP Pesticides	
	RCI	
	GC/MS Vol.	8260 / 624
	GC/MS Semi.	Vol. 8270 / 625
	PCBs	8082 / 608
	Pesticides	8081 / 608
	BOD, TSS, pH	
	Moisture Content	
	Cl, F, SO ₄ , NO ₃ , NO ₂ , Alkalinity	
	Na, Ca, Mg, K, TDS, EC	
	Turn Around Time if different from standard	
	Hold	

LAB USE ONLY	Intact ☒ Y / ☐ N	Headspace ☐ Y / ☒ N	☐ Dry Weight Basis Required ☐ TRRP Report Required ☐ Check If Special Reporting Limits Are Needed	REMARKS:
	Log-in-Review ☒ ☐			

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

Carrier # _____

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 885•588•3443 915•565•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•261•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

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

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

Report Date: March 14, 2011

Work Order: 11022811



Project Location: West of Monument, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-7

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
258963	MW-31	water	2011-02-24	08:00	2011-02-28
258964	MW-33	water	2011-02-24	08:30	2011-02-28
258965	MW-15	water	2011-02-24	09:00	2011-02-28
258966	MW-10	water	2011-02-24	09:30	2011-02-28
258967	MW-7	water	2011-02-24	10:00	2011-02-28
258968	MW-32	water	2011-02-24	10:30	2011-02-28
258969	MW-37	water	2011-02-24	11:00	2011-02-28
258970	MW-8	water	2011-02-24	11:30	2011-02-28
258971	MW-28	water	2011-02-24	12:00	2011-02-28
258972	MW-3	water	2011-02-24	12:30	2011-02-28
258973	MW-23	water	2011-02-24	13:00	2011-02-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
258974	MW-16	water	2011-02-24	14:00	2011-02-28
258975	MW-4	water	2011-02-24	14:30	2011-02-28
258976	MW-6	water	2011-02-24	15:00	2011-02-28
258977	MW-2	water	2011-02-24	16:00	2011-02-28
258978	MW-13	water	2011-02-24	16:30	2011-02-28
258979	MW-1	water	2011-02-24	17:30	2011-02-28
258980	MW-38	water	2011-02-24	18:36	2011-02-28
258981	MW-5	water	2011-02-24	19:00	2011-02-28

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 16 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 Bob Durham were received by TraceAnalysis, Inc. on 2011-02-28 and assigned to work order 11022811. Samples for work order 11022811 were received intact without headspace and 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	67064	2011-03-03 at 09:20	79030	2011-03-03 at 09:20
BTEX	S 8021B	67068	2011-03-04 at 08:44	79032	2011-03-04 at 08:44

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 11022811 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.

Report Date: March 14, 2011
TNM-LF-2000-7

Work Order: 11022811
Bob Durham

Page Number: 4 of 16
West of Monument, NM

Analytical Report

Sample: 258963 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 79030
Prep Batch: 67064

Analytical Method: S 8021B
Date Analyzed: 2011-03-03
Sample Preparation: 2011-03-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0978	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.101	mg/L	1	0.100	101	51.1 - 128

Sample: 258964 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 79030
Prep Batch: 67064

Analytical Method: S 8021B
Date Analyzed: 2011-03-03
Sample Preparation: 2011-03-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	51.1 - 128

Sample: 258965 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 79030
Prep Batch: 67064

Analytical Method: S 8021B
Date Analyzed: 2011-03-03
Sample Preparation: 2011-03-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Report Date: March 14, 2011
TNM-LF-2000-7

Work Order: 11022811
Bob Durham

Page Number: 5 of 16
West of Monument, NM

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0981	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	51.1 - 128

Sample: 258966 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 79030

Prep Batch: 67064

Analytical Method: S 8021B

Date Analyzed: 2011-03-03

Sample Preparation: 2011-03-03

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0956	mg/L	1	0.100	96	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.105	mg/L	1	0.100	105	51.1 - 128

Sample: 258967 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 79030

Prep Batch: 67064

Analytical Method: S 8021B

Date Analyzed: 2011-03-03

Sample Preparation: 2011-03-03

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Report Date: March 14, 2011
TNM-LF-2000-7

Work Order: 11022811
Bob Durham

Page Number: 6 of 16
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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0883	mg/L	1	0.100	88	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	51.1 - 128

Sample: 258968 - MW-32

Laboratory: Midland

Analysis: BTEX

QC Batch: 79030

Prep Batch: 67064

Analytical Method: S 8021B

Date Analyzed: 2011-03-03

Sample Preparation: 2011-03-03

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0885	mg/L	1	0.100	88	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	51.1 - 128

Sample: 258969 - MW-37

Laboratory: Midland

Analysis: BTEX

QC Batch: 79030

Prep Batch: 67064

Analytical Method: S 8021B

Date Analyzed: 2011-03-03

Sample Preparation: 2011-03-03

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.120	mg/L	1	0.100	120	51.1 - 128

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Sample: 258970 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 79030
Prep Batch: 67064

Analytical Method: S 8021B
Date Analyzed: 2011-03-03
Sample Preparation: 2011-03-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0923	mg/L	1	0.100	92	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 258971 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 79030
Prep Batch: 67064

Analytical Method: S 8021B
Date Analyzed: 2011-03-03
Sample Preparation: 2011-03-03

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0957	mg/L	1	0.100	96	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.116	mg/L	1	0.100	116	51.1 - 128

Sample: 258972 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.108	mg/L	1	0.100	108	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.106	mg/L	1	0.100	106	51.1 - 128

Sample: 258973 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.106	mg/L	1	0.100	106	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	51.1 - 128

Sample: 258974 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0961	mg/L	1	0.100	96	51.1 - 128

Sample: 258975 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0991	mg/L	1	0.100	99	51.1 - 128

Sample: 258976 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0985	mg/L	1	0.100	98	51.1 - 128

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Sample: 258977 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0983	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0964	mg/L	1	0.100	96	51.1 - 128

Sample: 258978 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.102	mg/L	1	0.100	102	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.108	mg/L	1	0.100	108	51.1 - 128

Sample: 258979 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0980	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0939	mg/L	1	0.100	94	51.1 - 128

Sample: 258980 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0982	mg/L	1	0.100	98	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0950	mg/L	1	0.100	95	51.1 - 128

Sample: 258981 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 79032
Prep Batch: 67068

Analytical Method: S 8021B
Date Analyzed: 2011-03-04
Sample Preparation: 2011-03-04

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0105	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

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Surrogate	Flag	Result	Units	Dilutiou	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0967	mg/L	1	0.100	97	67.8 - 126
4-Bromofluorobenzene (4-BFB)		0.0989	mg/L	1	0.100	99	51.1 - 128

Method Blank (1) QC Batch: 79030

QC Batch: 79030
Prep Batch: 67064

Date Analyzed: 2011-03-03
QC Preparation: 2011-03-03

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000400	mg/L	0.001
Toluene		<0.000300	mg/L	0.001
Ethylbenzene		<0.000300	mg/L	0.001
Xylene		<0.000333	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0923	mg/L	1	0.100	92	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0931	mg/L	1	0.100	93	47.3 - 116

Method Blank (1) QC Batch: 79032

QC Batch: 79032
Prep Batch: 67068

Date Analyzed: 2011-03-04
QC Preparation: 2011-03-04

Analyzed By: ME
Prepared By: ME

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000400	mg/L	0.001
Toluene		<0.000300	mg/L	0.001
Ethylbenzene		<0.000300	mg/L	0.001
Xylene		<0.000333	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0880	mg/L	1	0.100	88	70.2 - 118
4-Bromofluorobenzene (4-BFB)		0.0857	mg/L	1	0.100	86	47.3 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 79030
Prep Batch: 67064

Date Analyzed: 2011-03-03
QC Preparation: 2011-03-03

Analyzed By: ME
Prepared By: ME

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0936	mg/L	1	0.100	<0.000400	94	82.9 - 108
Toluene	0.0937	mg/L	1	0.100	<0.000300	94	82.7 - 107
Ethylbenzene	0.0901	mg/L	1	0.100	<0.000300	90	78.8 - 106
Xylene	0.273	mg/L	1	0.300	<0.000333	91	79.3 - 106

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	0.0960	mg/L	1	0.100	<0.000400	96	82.9 - 108	2	20
Toluene	0.0961	mg/L	1	0.100	<0.000300	96	82.7 - 107	2	20
Ethylbenzene	0.0929	mg/L	1	0.100	<0.000300	93	78.8 - 106	3	20
Xylene	0.280	mg/L	1	0.300	<0.000333	93	79.3 - 106	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)	0.0946	0.0929	mg/L	1	0.100	95	93	67.3 - 113
4-Bromofluorobenzene (4-BFB)	0.100	0.0977	mg/L	1	0.100	100	98	68.2 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 79032
Prep Batch: 67068

Date Analyzed: 2011-03-04
QC Preparation: 2011-03-04

Analyzed By: ME
Prepared By: ME

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0946	mg/L	1	0.100	<0.000400	95	82.9 - 108
Toluene	0.0938	mg/L	1	0.100	<0.000300	94	82.7 - 107
Ethylbenzene	0.0916	mg/L	1	0.100	<0.000300	92	78.8 - 106
Xylene	0.277	mg/L	1	0.300	<0.000333	92	79.3 - 106

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	0.0935	mg/L	1	0.100	<0.000400	94	82.9 - 108	1	20
Toluene	0.0922	mg/L	1	0.100	<0.000300	92	82.7 - 107	2	20
Ethylbenzene	0.0904	mg/L	1	0.100	<0.000300	90	78.8 - 106	1	20
Xylene	0.276	mg/L	1	0.300	<0.000333	92	79.3 - 106	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0931	0.0912	mg/L	1	0.100	93	91	67.3 - 113

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Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.0938	0.0956	mg/L	1	0.100	94	96	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 258719

QC Batch: 79030
Prep Batch: 67064

Date Analyzed: 2011-03-03
QC Preparation: 2011-03-03

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.41	mg/L	20	2.00	0.5671	92	77.9 - 114
Toluene	1.97	mg/L	20	2.00	0.1741	90	78.3 - 111
Ethylbenzene	1.91	mg/L	20	2.00	<0.00600	96	75.3 - 110
Xylene	5.75	mg/L	20	6.00	0.4576	88	75.7 - 109

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	2.37	mg/L	20	2.00	0.5671	90	77.9 - 114	2	20
Toluene	1.95	mg/L	20	2.00	0.1741	89	78.3 - 111	1	20
Ethylbenzene	1.88	mg/L	20	2.00	<0.00600	94	75.3 - 110	2	20
Xylene	5.73	mg/L	20	6.00	0.4576	88	75.7 - 109	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)	1.78	1.83	mg/L	20	2	89	92	68.3 - 107
4-Bromofluorobenzene (4-BFB)	2.19	2.24	mg/L	20	2	110	112	60.1 - 135

Matrix Spike (MS-1) Spiked Sample: 259115

QC Batch: 79032
Prep Batch: 67068

Date Analyzed: 2011-03-04
QC Preparation: 2011-03-04

Analyzed By: ME
Prepared By: ME

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.61	mg/L	5	0.500	2.1558	91	77.9 - 114
Toluene	0.447	mg/L	5	0.500	<0.00150	89	78.3 - 111
Ethylbenzene	0.444	mg/L	5	0.500	0.0426	80	75.3 - 110
Xylene	1.30	mg/L	5	1.50	<0.00166	87	75.7 - 109

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	2.67	mg/L	5	0.500	2.1558	103	77.9 - 114	2	20
Toluene	0.462	mg/L	5	0.500	<0.00150	92	78.3 - 111	3	20
Ethylbenzene	0.462	mg/L	5	0.500	0.0426	84	75.3 - 110	4	20
Xylene	1.36	mg/L	5	1.50	<0.00166	91	75.7 - 109	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)	0.466	0.487	mg/L	5	0.5	93	97	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.500	0.520	mg/L	5	0.5	100	104	60.1 - 135

Standard (CCV-1)

QC Batch: 79030

Date Analyzed: 2011-03-03

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0922	92	80 - 120	2011-03-03
Toluene		mg/L	0.100	0.0911	91	80 - 120	2011-03-03
Ethylbenzene		mg/L	0.100	0.0877	88	80 - 120	2011-03-03
Xylene		mg/L	0.300	0.267	89	80 - 120	2011-03-03

Standard (CCV-2)

QC Batch: 79030

Date Analyzed: 2011-03-03

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0917	92	80 - 120	2011-03-03
Toluene		mg/L	0.100	0.0908	91	80 - 120	2011-03-03
Ethylbenzene		mg/L	0.100	0.0860	86	80 - 120	2011-03-03
Xylene		mg/L	0.300	0.261	87	80 - 120	2011-03-03

Standard (CCV-3)

QC Batch: 79030

Date Analyzed: 2011-03-03

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0966	97	80 - 120	2011-03-03

continued . . .

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.100	0.0950	95	80 - 120	2011-03-03
Ethylbenzene		mg/L	0.100	0.0913	91	80 - 120	2011-03-03
Xylene		mg/L	0.300	0.275	92	80 - 120	2011-03-03

Standard (CCV-1)

QC Batch: 79032

Date Analyzed: 2011-03-04

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0876	88	80 - 120	2011-03-04
Toluene		mg/L	0.100	0.0856	86	80 - 120	2011-03-04
Ethylbenzene		mg/L	0.100	0.0822	82	80 - 120	2011-03-04
Xylene		mg/L	0.300	0.248	83	80 - 120	2011-03-04

Standard (CCV-2)

QC Batch: 79032

Date Analyzed: 2011-03-04

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0928	93	80 - 120	2011-03-04
Toluene		mg/L	0.100	0.0909	91	80 - 120	2011-03-04
Ethylbenzene		mg/L	0.100	0.0875	88	80 - 120	2011-03-04
Xylene		mg/L	0.300	0.266	89	80 - 120	2011-03-04

Standard (CCV-3)

QC Batch: 79032

Date Analyzed: 2011-03-04

Analyzed By: ME

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0948	95	80 - 120	2011-03-04
Toluene		mg/L	0.100	0.0933	93	80 - 120	2011-03-04
Ethylbenzene		mg/L	0.100	0.0902	90	80 - 120	2011-03-04
Xylene		mg/L	0.300	0.272	91	80 - 120	2011-03-04

LAB Order ID # 11022811

Page 1 of 2

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Lubbock, Texas 79424
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Fax (806) 794-1298
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5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

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

Company Name: ANAL Phone #: 432-520-7720
Address: 2057 Commerce Midland TX 79703 Fax #: 432-520-7701
Contact Person: Ron R. E-mail:

Invoice to:
(If different from above)
Project #: TM-LE-2000-7 Project Name: Bob Durban
Project Location (including state): New Mexico Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD				DATE	TIME
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE
963	mw-31	3	wa	X			X				X	2-24 8:00
964	mw-33											8:30
965	mw-15											9:00
966	mw-10											9:30
967	mw-7											10:00
968	mw-32											10:30
969	mw-37											11:00
970	mw-8											11:30
971	mw-28											12:00
972	mw-3											12:30
973	mw-23											13:00

Relinquished by: Company: Date: 2-28 Time: 8:00
Received by: Andy TA Company: TA Date: 2-28-11 Time: 8:00
OBS 2.1 COR 2.1
INST 0

Relinquished by: Company: Date: Time:
Received by: Company: Date: Time:
OBS 0 COR 0
INST 0

Relinquished by: Company: Date: Time:
Received by: Company: Date: Time:
OBS 0 COR 0
INST 0

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	X
BTEX 8021 / 602 / 8260 / 624	X
TPH 418.1 / TX1005 / TX1005 Ex(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 Seml. Vol. 8270 / 625	
PCBs 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	

Turn Around Time if different from standard

LAB USE ONLY

REMARKS: all tests-midland

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

Carrier # 11022811

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

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LAB Order ID # 11022811

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberteen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
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BioAqueous Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: ATP Phone #: 432-520-7730
Address: (Street, City, Zip) 2057 Commerce Midland TX 79703 Fax #: 432-520-7701
Contact Person: Dan R. E-mail:

Invoice to: (If different from above)
Project #: 1111-LE-200-7 Project Name: Bob Durban
Project Location (including state): New Mexico Sampler Signature: [Signature]

LAB # (LAB USE) (ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
208974	mw-16	3	1000	X				X				X		2-24	1400
975	mw-4	1	1											14:30	
976	mw-6	1	1											15:00	
977	mw-2	1	1											16:00	
978	mw-13	1	1											16:30	
979	mw-1	1	1											17:30	
980	mw-38	1	1											18:30	
981	mw-5	1	1											19:00	

Relinquished by: [Signature] Company: ATP Date: 2-28 Time: 8:00
Relinquished by: [Signature] Company: ATP Date: 2-28 Time: 9:00
Relinquished by: [Signature] Company: ATP Date: 2-28 Time: 9:00

ANALYSIS REQUEST

(Circle or Specify Method No.)

TPH 418.1 / TX1005 / TX1005 EX(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	
PCBs 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, F, SO ₄ , NO ₃ , NO ₂ , Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	

REMARKS:

LAB USE ONLY

INST OBS 2.1 COR 2.1
INST OBS 2.1 COR 2.1
INST OBS 2.1 COR 2.1
INST OBS 2.1 COR 2.1

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.

ORIGINAL COPY

Carrier # 11022811

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•754•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 886•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•281•5280
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: May 26, 2011

Work Order: 11052513



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
267304	MW-24	water	2011-05-24	07:00	2011-05-25
267305	MW-27	water	2011-05-24	07:30	2011-05-25
267306	MW-31	water	2011-05-24	08:00	2011-05-25
267307	MW-33	water	2011-05-24	08:30	2011-05-25
267308	MW-56	water	2011-05-24	09:00	2011-05-25
267309	MW-15	water	2011-05-24	09:30	2011-05-25
267310	MW-10	water	2011-05-24	10:00	2011-05-25
267311	MW-7	water	2011-05-24	10:30	2011-05-25
267312	MW-32	water	2011-05-24	11:00	2011-05-25
267313	MW-37	water	2011-05-24	11:30	2011-05-25
267314	MW-8	water	2011-05-24	12:00	2011-05-25
267315	MW-28	water	2011-05-24	12:30	2011-05-25
267316	MW-3	water	2011-05-24	13:00	2011-05-25
267317	MW-23	water	2011-05-24	13:30	2011-05-25
267318	MW-16	water	2011-05-24	14:00	2011-05-25
267319	MW-4	water	2011-05-24	14:30	2011-05-25
267320	MW-6	water	2011-05-24	15:00	2011-05-25
267321	MW-13	water	2011-05-24	15:30	2011-05-25

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
267322	MW-2	water	2011-05-24	16:00	2011-05-25
267323	MW-38	water	2011-05-24	16:30	2011-05-25
267324	MW-1	water	2011-05-24	17:15	2011-05-25
267325	MW-5	water	2011-05-24	18:00	2011-05-25

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 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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2011-05-25 and assigned to work order 11052513. Samples for work order 11052513 were received intact without headspace and at a temperature of 16.1 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	69317	2011-05-25 at 10:27	81631	2011-05-25 at 10:27
BTEX	S 8021B	69319	2011-05-25 at 12:15	81632	2011-05-26 at 01:01

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 11052513 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.

Samples on ice.

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.

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

Page Number: 6 of 23
Monument, Lea County, NM

Analytical Report

Sample: 267304 - MW-24

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0937	mg/L	1	0.100	94	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0887	mg/L	1	0.100	89	51.1 - 128

Sample: 267305 - MW-27

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0966	mg/L	1	0.100	97	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0907	mg/L	1	0.100	91	51.1 - 128

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

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Monument, Lea County, NM

Sample: 267306 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0923	mg/L	1	0.100	92	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0811	mg/L	1	0.100	81	51.1 - 128

Sample: 267307 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0946	mg/L	1	0.100	95	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0886	mg/L	1	0.100	89	51.1 - 128

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

Page Number: 8 of 23
Monument, Lea County, NM

Sample: 267308 - MW-56

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0944	mg/L	1	0.100	94	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0875	mg/L	1	0.100	88	51.1 - 128

Sample: 267309 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0954	mg/L	1	0.100	95	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0873	mg/L	1	0.100	87	51.1 - 128

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

Page Number: 9 of 23
Monument, Lea County, NM

Sample: 267310 - MW-10

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0922	mg/L	1	0.100	92	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0859	mg/L	1	0.100	86	51.1 - 128

Sample: 267311 - MW-7

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0945	mg/L	1	0.100	94	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0855	mg/L	1	0.100	86	51.1 - 128

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

Page Number: 10 of 23
Monument, Lea County, NM

Sample: 267312 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0933	mg/L	1	0.100	93	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0854	mg/L	1	0.100	85	51.1 - 128

Sample: 267313 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0911	mg/L	1	0.100	91	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0839	mg/L	1	0.100	84	51.1 - 128

Report Date: May 26, 2011
TNM-LF-2000-07

Work Order: 11052513
Bob Durham

Page Number: 11 of 23
Monument, Lea County, NM

Sample: 267314 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0896	mg/L	1	0.100	90	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0869	mg/L	1	0.100	87	51.1 - 128

Sample: 267315 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0855	mg/L	1	0.100	86	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0810	mg/L	1	0.100	81	51.1 - 128

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Sample: 267316 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0894	mg/L	1	0.100	89	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0826	mg/L	1	0.100	83	51.1 - 128

Sample: 267317 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0894	mg/L	1	0.100	89	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0816	mg/L	1	0.100	82	51.1 - 128

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Sample: 267318 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0882	mg/L	1	0.100	88	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0927	mg/L	1	0.100	93	51.1 - 128

Sample: 267319 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0882	mg/L	1	0.100	88	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0826	mg/L	1	0.100	83	51.1 - 128

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Sample: 267320 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0900	mg/L	1	0.100	90	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0819	mg/L	1	0.100	82	51.1 - 128

Sample: 267321 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0889	mg/L	1	0.100	89	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0855	mg/L	1	0.100	86	51.1 - 128

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Sample: 267322 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0907	mg/L	1	0.100	91	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.100	mg/L	1	0.100	100	51.1 - 128

Sample: 267323 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 81631
Prep Batch: 69317

Analytical Method: S 8021B
Date Analyzed: 2011-05-25
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00960	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0870	mg/L	1	0.100	87	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0816	mg/L	1	0.100	82	51.1 - 128

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Sample: 267324 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 81632
Prep Batch: 69319

Analytical Method: S 8021B
Date Analyzed: 2011-05-26
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0215	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00830	mg/L	1	0.00100
Xylene		1	0.0205	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0870	mg/L	1	0.100	87	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.0850	mg/L	1	0.100	85	51.1 - 128

Sample: 267325 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 81632
Prep Batch: 69319

Analytical Method: S 8021B
Date Analyzed: 2011-05-26
Sample Preparation: 2011-05-25

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0283	mg/L	1	0.00100
Toluene		1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00660	mg/L	1	0.00100
Xylene		1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0916	mg/L	1	0.100	92	67.8 - 129
4-Bromofluorobenzene (4-BFB)			0.102	mg/L	1	0.100	102	51.1 - 128

Method Blanks

Method Blank (1) QC Batch: 81631

QC Batch: 81631 Date Analyzed: 2011-05-25 Analyzed By: ME
Prep Batch: 69317 QC Preparation: 2011-05-25 Prepared By: AG

Parameter	Flag	Cert	MDL		Units	RL
			Result			
Benzene		1	<0.000400		mg/L	0.001
Toluene		1	<0.000300		mg/L	0.001
Ethylbenzene		1	<0.000300		mg/L	0.001
Xylene		1	<0.000333		mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0953	mg/L	1	0.100	95	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.0895	mg/L	1	0.100	90	47.3 - 116

Method Blank (1) QC Batch: 81632

QC Batch: 81632 Date Analyzed: 2011-05-26 Analyzed By: ME
Prep Batch: 69319 QC Preparation: 2011-05-25 Prepared By: AG

Parameter	Flag	Cert	MDL		Units	RL
			Result			
Benzene		1	<0.000400		mg/L	0.001
Toluene		1	<0.000300		mg/L	0.001
Ethylbenzene		1	<0.000300		mg/L	0.001
Xylene		1	<0.000333		mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0865	mg/L	1	0.100	86	70.2 - 118
4-Bromofluorobenzene (4-BFB)			0.0791	mg/L	1	0.100	79	47.3 - 116

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 81631
Prep Batch: 69317

Date Analyzed: 2011-05-25
QC Preparation: 2011-05-25

Analyzed By: ME
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.109	mg/L	1	0.100	<0.000400	109	76.8 - 110
Toluene		1	0.114	mg/L	1	0.100	<0.000300	114	81 - 118
Ethylbenzene		1	0.0966	mg/L	1	0.100	<0.000300	97	78.8 - 118
Xylene		1	0.288	mg/L	1	0.300	<0.000333	96	80.3 - 119

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.110	mg/L	1	0.100	<0.000400	110	76.8 - 110	1	20
Toluene		1	0.115	mg/L	1	0.100	<0.000300	115	81 - 118	1	20
Ethylbenzene		1	0.0972	mg/L	1	0.100	<0.000300	97	78.8 - 118	1	20
Xylene		1	0.291	mg/L	1	0.300	<0.000333	97	80.3 - 119	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0923	0.0918	mg/L	1	0.100	92	92	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0941	0.0911	mg/L	1	0.100	94	91	68.2 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 81632
Prep Batch: 69319

Date Analyzed: 2011-05-26
QC Preparation: 2011-05-25

Analyzed By: ME
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000400	105	76.8 - 110
Toluene		1	0.110	mg/L	1	0.100	<0.000300	110	81 - 118
Ethylbenzene		1	0.0925	mg/L	1	0.100	<0.000300	92	78.8 - 118
Xylene		1	0.276	mg/L	1	0.300	<0.000333	92	80.3 - 119

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

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Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000400	102	76.8 - 110	3	20
Toluene		1	0.106	mg/L	1	0.100	<0.000300	106	81 - 118	4	20
Ethylbenzene		1	0.0904	mg/L	1	0.100	<0.000300	90	78.8 - 118	2	20
Xylene		1	0.268	mg/L	1	0.300	<0.000333	89	80.3 - 119	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)	0.0894	0.0918	mg/L	1	0.100	89	92	66.6 - 114
4-Bromofluorobenzene (4-BFB)	0.0870	0.0856	mg/L	1	0.100	87	86	68.2 - 124

Matrix Spike (MS-1) Spiked Sample: 267323

QC Batch: 81631
Prep Batch: 69317

Date Analyzed: 2011-05-25
QC Preparation: 2011-05-25

Analyzed By: ME
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.103	mg/L	1	0.100	0.0096	93	77.9 - 114
Toluene		1	0.103	mg/L	1	0.100	<0.000300	103	78.3 - 111
Ethylbenzene		1	0.0856	mg/L	1	0.100	<0.000300	86	75.3 - 110
Xylene		1	0.255	mg/L	1	0.300	<0.000333	85	75.7 - 109

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.104	mg/L	1	0.100	0.0096	94	77.9 - 114	1	20
Toluene		1	0.107	mg/L	1	0.100	<0.000300	107	78.3 - 111	4	20
Ethylbenzene		1	0.0864	mg/L	1	0.100	<0.000300	86	75.3 - 110	1	20
Xylene		1	0.261	mg/L	1	0.300	<0.000333	87	75.7 - 109	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)	0.0855	0.0864	mg/L	1	0.1	86	86	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.0851	0.0850	mg/L	1	0.1	85	85	60.1 - 135

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Matrix Spike (MS-1) Spiked Sample: 267325

QC Batch: 81632
Prep Batch: 69319

Date Analyzed: 2011-05-26
QC Preparation: 2011-05-25

Analyzed By: ME
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.122	mg/L	1	0.100	0.0283	94	77.9 - 114
Toluene		1	0.105	mg/L	1	0.100	<0.000300	105	78.3 - 111
Ethylbenzene		1	0.0894	mg/L	1	0.100	0.0066	83	75.3 - 110
Xylene		1	0.263	mg/L	1	0.300	<0.000333	88	75.7 - 109

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.125	mg/L	1	0.100	0.0283	97	77.9 - 114	2	20
Toluene		1	0.110	mg/L	1	0.100	<0.000300	110	78.3 - 111	5	20
Ethylbenzene		1	0.0946	mg/L	1	0.100	0.0066	88	75.3 - 110	6	20
Xylene		1	0.278	mg/L	1	0.300	<0.000333	93	75.7 - 109	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)	0.0950	0.0923	mg/L	1	0.1	95	92	68.3 - 107
4-Bromofluorobenzene (4-BFB)	0.110	0.104	mg/L	1	0.1	110	104	60.1 - 135

Calibration Standards

Standard (CCV-1)

QC Batch: 81631

Date Analyzed: 2011-05-25

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.108	108	80 - 120	2011-05-25
Toluene		1	mg/L	0.100	0.111	111	80 - 120	2011-05-25
Ethylbenzene		1	mg/L	0.100	0.0918	92	80 - 120	2011-05-25
Xylene		1	mg/L	0.300	0.274	91	80 - 120	2011-05-25

Standard (CCV-2)

QC Batch: 81631

Date Analyzed: 2011-05-25

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-05-25
Toluene		1	mg/L	0.100	0.107	107	80 - 120	2011-05-25
Ethylbenzene		1	mg/L	0.100	0.0900	90	80 - 120	2011-05-25
Xylene		1	mg/L	0.300	0.268	89	80 - 120	2011-05-25

Standard (CCV-3)

QC Batch: 81631

Date Analyzed: 2011-05-25

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.106	106	80 - 120	2011-05-25
Toluene		1	mg/L	0.100	0.110	110	80 - 120	2011-05-25
Ethylbenzene		1	mg/L	0.100	0.0926	93	80 - 120	2011-05-25
Xylene		1	mg/L	0.300	0.277	92	80 - 120	2011-05-25

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Standard (CCV-1)

QC Batch: 81632

Date Analyzed: 2011-05-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.108	108	80 - 120	2011-05-26
Toluene		1	mg/L	0.100	0.114	114	80 - 120	2011-05-26
Ethylbenzene		1	mg/L	0.100	0.0959	96	80 - 120	2011-05-26
Xylene		1	mg/L	0.300	0.286	95	80 - 120	2011-05-26

Standard (CCV-2)

QC Batch: 81632

Date Analyzed: 2011-05-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.104	104	80 - 120	2011-05-26
Toluene		1	mg/L	0.100	0.108	108	80 - 120	2011-05-26
Ethylbenzene		1	mg/L	0.100	0.0894	89	80 - 120	2011-05-26
Xylene		1	mg/L	0.300	0.270	90	80 - 120	2011-05-26

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

LAB Order ID # 11052573

Page 2 of 3

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-12965002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313BioAqualic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:

Address: 2001
(Street, City, Zip)

Contact Person: 2057 Commerce Midland TX 79703

Invoice to: Dan R.

(If different from above)

Project #:

Project Location (including state): NM-LF-2000-7

Project Name: New Mexico

Sampler Signature: Bob Durban

Phone #: 432-530-7720

Fax #: 432-530-7701

E-mail:

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE	9021 / 602 / 8260 / 624	TPH 418 / 1 / TX1005 / TX1005 EX(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	PCBs 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, S, O4, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard
------	-------------------------	---------------------------------------	---------------------------	----------------	---	-------------------------------------	----------------	---------------------	-----------------	-----	-----------------------	-----------------------------	-----------------	-----------------------	--------------	------------------	------------------------------------	------------------------	---

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	VOLUME / AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME
26735	mw-28	3	1000X	WATER	HCl	5-24	12:30
316	mw-3			AIR	NaOH		13:10
317	mw-23			SLUDGE	H2SO4		13:30
318	mw-16				HNO3		14:00
319	mw-4				ICE		14:30
320	mw-6				NONE		15:00
321	mw-13						15:30
322	mw-2						16:00
323	mw-38						16:30
324	mw-1						17:15
325	mw-5						18:00

Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST: OBS: COR: 5-25-00 5:50 6:50 8:55 16:10 16:10 16:10

Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST: OBS: COR: 5-25-00 5:50 6:50 8:55 16:10 16:10 16:10

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Relinquished by: Company: Date: Time: Received by: Company: Date: Time: INST: OBS: COR: 5-25-00 5:50 6:50 8:55 16:10 16:10 16:10

REMARKS:

LAB USE ONLY

Instal N. Headspace X/D/NA

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.

ORIGINAL COPY

Carrier # 11052573



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•688•6301 FAX 432•688•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: September 2, 2011

Work Order: 11082603



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
275632	MW-56	water	2011-08-24	10:45	2011-08-26
275633	MW-31	water	2011-08-24	11:30	2011-08-26
275634	MW-33	water	2011-08-24	12:15	2011-08-26
275635	MW-15	water	2011-08-24	13:00	2011-08-26
275636	MW-10	water	2011-08-24	13:45	2011-08-26
275637	MW-7	water	2011-08-24	14:30	2011-08-26
275638	MW-32	water	2011-08-24	15:15	2011-08-26
275639	MW-37	water	2011-08-24	16:00	2011-08-26
275640	MW-8	water	2011-08-24	16:45	2011-08-26
275641	MW-28	water	2011-08-24	17:30	2011-08-26
275642	MW-3	water	2011-08-25	10:00	2011-08-26
275643	MW-23	water	2011-08-25	10:45	2011-08-26
275644	MW-16	water	2011-08-25	11:45	2011-08-26
275645	MW-4	water	2011-08-25	12:30	2011-08-26
275646	MW-6	water	2011-08-25	13:15	2011-08-26
275647	MW-13	water	2011-08-25	14:00	2011-08-26
275648	MW-2	water	2011-08-25	15:00	2011-08-26
275649	MW-38	water	2011-08-25	15:45	2011-08-26

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
275650	MW-1	water	2011-08-25	16:45	2011-08-26
275651	MW-5	water	2011-08-25	17:45	2011-08-26

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 21 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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2011-08-26 and assigned to work order 11082603. Samples for work order 11082603 were received intact without headspace and at a temperature of 2.8 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	71576	2011-08-26 at 13:31	84288	2011-08-26 at 23:45
BTEX	S 8021B	71714	2011-09-01 at 08:30	84450	2011-09-01 at 15:51

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 11082603 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: 275632 - MW-56

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.110	mg/L	1	0.100	110	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	67.5 - 140.8

Sample: 275633 - MW-31

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.110	mg/L	1	0.100	110	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	67.5 - 140.8

Report Date: September 2, 2011
TNM-LF-2000-07

Work Order: 11082603
Bob Durham

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Monument, Lea County, NM

Sample: 275634 - MW-33

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0948	mg/L	1	0.100	95	67.5 - 140.8

Sample: 275635 - MW-15

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0989	mg/L	1	0.100	99	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0893	mg/L	1	0.100	89	67.5 - 140.8

Report Date: September 2, 2011
TNM-LF-2000-07

Work Order: 11082603
Bob Durham

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Monument, Lea County, NM

Sample: 275636 - MW-10

Laboratory: Midland

Analysis: BTEX

QC Batch: 84288

Prep Batch: 71576

Analytical Method: S 8021B

Date Analyzed: 2011-08-26

Sample Preparation: 2011-08-26

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0937	mg/L	1	0.100	94	67.5 - 140.8

Sample: 275637 - MW-7

Laboratory: Midland

Analysis: BTEX

QC Batch: 84288

Prep Batch: 71576

Analytical Method: S 8021B

Date Analyzed: 2011-08-26

Sample Preparation: 2011-08-26

Prep Method: S 5030B

Analyzed By: ME

Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0898	mg/L	1	0.100	90	67.5 - 140.8

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Sample: 275638 - MW-32

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0976	mg/L	1	0.100	98	67.5 - 140.8

Sample: 275639 - MW-37

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.100	mg/L	1	0.100	100	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0926	mg/L	1	0.100	93	67.5 - 140.8

Report Date: September 2, 2011
TNM-LF-2000-07

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Bob Durham

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Monument, Lea County, NM

Sample: 275640 - MW-8

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.107	mg/L	1	0.100	107	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0985	mg/L	1	0.100	98	67.5 - 140.8

Sample: 275641 - MW-28

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0992	mg/L	1	0.100	99	67.5 - 140.8

Report Date: September 2, 2011
TNM-LF-2000-07

Work Order: 11082603
Bob Durham

Page Number: 10 of 21
Monument, Lea County, NM

Sample: 275642 - MW-3

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0968	mg/L	1	0.100	97	67.5 - 140.8

Sample: 275643 - MW-23

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.111	mg/L	1	0.100	111	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0984	mg/L	1	0.100	98	67.5 - 140.8

Report Date: September 2, 2011
TNM-LF-2000-07

Work Order: 11082603
Bob Durham

Page Number: 11 of 21
Monument, Lea County, NM

Sample: 275644 - MW-16

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.107	mg/L	1	0.100	107	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.108	mg/L	1	0.100	108	67.5 - 140.8

Sample: 275645 - MW-4

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0950	mg/L	1	0.100	95	67.5 - 140.8

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Sample: 275646 - MW-6

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0929	mg/L	1	0.100	93	67.5 - 140.8

Sample: 275647 - MW-13

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0958	mg/L	1	0.100	96	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0889	mg/L	1	0.100	89	67.5 - 140.8

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Sample: 275648 - MW-2

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00680	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.110	mg/L	1	0.100	110	67.5 - 140.8

Sample: 275649 - MW-38

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0129	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0996	mg/L	1	0.100	100	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	67.5 - 140.8

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Sample: 275650 - MW-1

Laboratory: Midland
Analysis: BTEX
QC Batch: 84288
Prep Batch: 71576

Analytical Method: S 8021B
Date Analyzed: 2011-08-26
Sample Preparation: 2011-08-26

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0185	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene		1	0.0103	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.105	mg/L	1	0.100	105	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.104	mg/L	1	0.100	104	67.5 - 140.8

Sample: 275651 - MW-5

Laboratory: Midland
Analysis: BTEX
QC Batch: 84450
Prep Batch: 71714

Analytical Method: S 8021B
Date Analyzed: 2011-09-01
Sample Preparation: 2011-09-01

Prep Method: S 5030B
Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0513	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	Qs,U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.110	mg/L	1	0.100	110	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.127	mg/L	1	0.100	127	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 84288

QC Batch: 84288
Prep Batch: 71576

Date Analyzed: 2011-08-26
QC Preparation: 2011-08-26

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0937	mg/L	1	0.100	94	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0864	mg/L	1	0.100	86	45.9 - 126.4

Method Blank (1) QC Batch: 84450

QC Batch: 84450
Prep Batch: 71714

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: ME
Prepared By: ME

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0889	mg/L	1	0.100	89	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0789	mg/L	1	0.100	79	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 84288
Prep Batch: 71576

Date Analyzed: 2011-08-26
QC Preparation: 2011-08-26

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0940	mg/L	1	0.100	<0.000400	94	76.8 - 110.3
Toluene		1	0.100	mg/L	1	0.100	<0.000300	100	90.9 - 122.2
Ethylbenzene		1	0.102	mg/L	1	0.100	<0.000300	102	72.7 - 120.2
Xylene		1	0.306	mg/L	1	0.300	<0.000333	102	72.1 - 121.5

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0903	mg/L	1	0.100	<0.000400	90	76.8 - 110.3	4	20
Toluene		1	0.0974	mg/L	1	0.100	<0.000300	97	90.9 - 122.2	3	20
Ethylbenzene		1	0.0985	mg/L	1	0.100	<0.000300	98	72.7 - 120.2	4	20
Xylene		1	0.296	mg/L	1	0.300	<0.000333	99	72.1 - 121.5	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.104	0.0992	mg/L	1	0.100	104	99	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.101	0.0968	mg/L	1	0.100	101	97	56.4 - 127.9

Laboratory Control Spike (LCS-1)

QC Batch: 84450
Prep Batch: 71714

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: ME
Prepared By: ME

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0903	mg/L	1	0.100	<0.000400	90	76.8 - 110.3
Toluene		1	0.0979	mg/L	1	0.100	<0.000300	98	90.9 - 122.2
Ethylbenzene		1	0.111	mg/L	1	0.100	<0.000300	111	72.7 - 120.2
Xylene		1	0.336	mg/L	1	0.300	<0.000333	112	72.1 - 121.5

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0954	mg/L	1	0.100	<0.000400	95	76.8 - 110.3	6	20
Toluene		1	0.105	mg/L	1	0.100	<0.000300	105	90.9 - 122.2	7	20
Ethylbenzene		1	0.120	mg/L	1	0.100	<0.000300	120	72.7 - 120.2	8	20
Xylene		1	0.363	mg/L	1	0.300	<0.000333	121	72.1 - 121.5	8	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0964	0.0921	mg/L	1	0.100	96	92	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.103	0.0985	mg/L	1	0.100	103	98	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 275650

QC Batch: 84288
Prep Batch: 71576

Date Analyzed: 2011-08-26
QC Preparation: 2011-08-26

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.109	mg/L	1	0.100	0.0185	90	66.9 - 128.2
Toluene		1	0.103	mg/L	1	0.100	<0.000300	103	81.6 - 122.9
Ethylbenzene		1	0.105	mg/L	1	0.100	<0.000300	105	62.7 - 117.9
Xylene		1	0.315	mg/L	1	0.300	0.0103	102	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.110	mg/L	1	0.100	0.0185	92	66.9 - 128.2	1	20
Toluene		1	0.103	mg/L	1	0.100	<0.000300	103	81.6 - 122.9	0	20
Ethylbenzene		1	0.104	mg/L	1	0.100	<0.000300	104	62.7 - 117.9	1	20
Xylene		1	0.315	mg/L	1	0.300	0.0103	102	62.9 - 118.2	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)	0.111	0.109	mg/L	1	0.1	111	109	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.116	0.114	mg/L	1	0.1	116	114	52.2 - 135.8

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Matrix Spike (MS-1) Spiked Sample: 275980

QC Batch: 84450
Prep Batch: 71714

Date Analyzed: 2011-09-01
QC Preparation: 2011-09-01

Analyzed By: ME
Prepared By: ME

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0945	mg/L	1	0.100	<0.000400	94	66.9 - 128.2
Toluene		1	0.104	mg/L	1	0.100	<0.000300	104	81.6 - 122.9
Ethylbenzene		1	0.117	mg/L	1	0.100	<0.000300	117	62.7 - 117.9
Xylene	Qs	1	0.356	mg/L	1	0.300	<0.000333	119	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0826	mg/L	1	0.100	<0.000400	83	66.9 - 128.2	13	20
Toluene		1	0.0921	mg/L	1	0.100	<0.000300	92	81.6 - 122.9	12	20
Ethylbenzene		1	0.101	mg/L	1	0.100	<0.000300	101	62.7 - 117.9	15	20
Xylene		1	0.311	mg/L	1	0.300	<0.000333	104	62.9 - 118.2	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)	0.104	0.104	mg/L	1	0.1	104	104	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.105	0.103	mg/L	1	0.1	105	103	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 84288

Date Analyzed: 2011-08-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0948	95	80 - 120	2011-08-26
Toluene		1	mg/L	0.100	0.101	101	80 - 120	2011-08-26
Ethylbenzene		1	mg/L	0.100	0.102	102	80 - 120	2011-08-26
Xylene		1	mg/L	0.300	0.306	102	80 - 120	2011-08-26

Standard (CCV-2)

QC Batch: 84288

Date Analyzed: 2011-08-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0956	96	80 - 120	2011-08-26
Toluene		1	mg/L	0.100	0.102	102	80 - 120	2011-08-26
Ethylbenzene		1	mg/L	0.100	0.103	103	80 - 120	2011-08-26
Xylene		1	mg/L	0.300	0.309	103	80 - 120	2011-08-26

Standard (CCV-3)

QC Batch: 84288

Date Analyzed: 2011-08-26

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0925	92	80 - 120	2011-08-26
Toluene		1	mg/L	0.100	0.0990	99	80 - 120	2011-08-26
Ethylbenzene		1	mg/L	0.100	0.0985	98	80 - 120	2011-08-26
Xylene		1	mg/L	0.300	0.297	99	80 - 120	2011-08-26

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Standard (CCV-1)

QC Batch: 84450

Date Analyzed: 2011-09-01

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-09-01
Toluene		1	mg/L	0.100	0.101	101	80 - 120	2011-09-01
Ethylbenzene		1	mg/L	0.100	0.0979	98	80 - 120	2011-09-01
Xylene		1	mg/L	0.300	0.296	99	80 - 120	2011-09-01

Standard (CCV-2)

QC Batch: 84450

Date Analyzed: 2011-09-01

Analyzed By: ME

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0901	90	80 - 120	2011-09-01
Toluene		1	mg/L	0.100	0.0983	98	80 - 120	2011-09-01
Ethylbenzene		1	mg/L	0.100	0.109	109	80 - 120	2011-09-01
Xylene		1	mg/L	0.300	0.332	111	80 - 120	2011-09-01

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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

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

email: lab@traceanalysis.com

Company Name: <u>ADUA</u>		Phone #: <u>432-520-7720</u>	
Address: <u>20517 Commerce Midland TX 79703</u>		Fax #: <u>432-520-7701</u>	
Contact Person: <u>Ron P.</u>		E-mail: _____	
Invoice to: _____			
(If different from above)			
Project #: <u>TUM-LF-2000-7</u>			
Project Location (including state): <u>New Mexico</u>			
Project Name: <u>Bob Durban</u>			
Sampler Signature: <u>[Signature]</u>			
E-MAIL: _____			
LAB USE ONLY			
LAB #	FIELD CODE	# CONTAINERS	VOLUME / Amount
27643	mar-23	3	vol X
644	MW-16		
645	MW-4		
646	MW-6		
647	MW-13		
648	MW-2		
649	MW-38		
650	MW-1		
651	MW-5		
MATRIX			
WATER			
SOIL			
AIR			
SLUDGE			
PRESERVATIVE			
HCl			
HNO ₃			
H ₂ SO ₄			
NaOH			
ICE			
NONE			
DATE			
TIME			
SAMPLING			
MTBE 8021 / 602 / 8260 / 624			
STEX 8021 / 602 / 8260 / 624			
TPH 418.1 / TX1005 / TX1005 EX(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			
PCBs 8082 / 608			
Pesticides 8081 / 608			
BOD, TSS, pH			
Moisture Content			
Cl, F1, S04, NO3, NO2, Alkalinity			
Na, Ca, Mg, K, TDS, EC			
Turn Around Time if different from standard			
Hold			

ANALYSIS REQUEST

(Circle or Specify Method No.)

REMARKS:

LAB USE ONLY

Relinquished by: <u>[Signature]</u>	Company: <u>ADUA</u>	Date: <u>8-26-11</u>	Received by: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8-26-11</u>	Time: <u>9:05</u>	INST: <u>28</u>	OBS: <u>28</u>	COR: <u>0</u>
Relinquished by: <u>[Signature]</u>	Company: <u>ADUA</u>	Date: <u>8-26-11</u>	Received by: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8-26-11</u>	Time: <u>9:05</u>	INST: <u>28</u>	OBS: <u>28</u>	COR: <u>0</u>
Relinquished by: <u>[Signature]</u>	Company: <u>ADUA</u>	Date: <u>8-26-11</u>	Received by: <u>[Signature]</u>	Company: <u>TA</u>	Date: <u>8-26-11</u>	Time: <u>9:05</u>	INST: <u>28</u>	OBS: <u>28</u>	COR: <u>0</u>

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

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TRACE ANALYSIS, INC.

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: November 14, 2011

Work Order: 11110804



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
281800	MW 21	water	2011-11-03	12:00	2011-11-08
281801	MW 24	water	2011-11-03	12:05	2011-11-08
281802	MW 20	water	2011-11-03	12:15	2011-11-08
281803	MW 4	water	2011-11-03	12:30	2011-11-08
281804	MW 3	water	2011-11-03	13:00	2011-11-08
281805	MW 6	water	2011-11-03	12:55	2011-11-08
281806	MW 23	water	2011-11-03	12:25	2011-11-08
281807	MW 5	water	2011-11-03	13:15	2011-11-08
281808	MW 2	water	2011-11-03	13:05	2011-11-08
281809	MW 7	water	2011-11-03	12:35	2011-11-08
281810	MW 25	water	2011-11-03	12:45	2011-11-08
281811	MW 8	water	2011-11-03	13:35	2011-11-08
281812	MW 1	water	2011-11-03	13:40	2011-11-08
281813	MW 16	water	2011-11-03	13:25	2011-11-08
281814	MW 15	water	2011-11-04	11:30	2011-11-08
281815	MW 11	water	2011-11-04	11:35	2011-11-08
281816	MW 13	water	2011-11-04	11:15	2011-11-08
281817	MW 10	water	2011-11-04	11:20	2011-11-08

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
281818	MW 33	water	2011-11-04	11:10	2011-11-08
281819	MW 32	water	2011-11-04	11:05	2011-11-08
281820	MW 37	water	2011-11-04	10:50	2011-11-08
281821	MW 38	water	2011-11-04	10:40	2011-11-08
281822	MW 56	water	2011-11-04	10:45	2011-11-08
281823	MW 31	water	2011-11-04	10:30	2011-11-08
281824	MW 30	water	2011-11-04	10:25	2011-11-08
281825	MW 28	water	2011-11-04	10:15	2011-11-08
281826	MW 27	water	2011-11-07	14:20	2011-11-08

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 29 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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2011-11-08 and assigned to work order 11110804. Samples for work order 11110804 were received intact without headspace and at a temperature of 9.9 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	73338	2011-11-11 at 14:00	86362	2011-11-11 at 23:02
BTEX	S 8021B	73338	2011-11-11 at 14:00	86365	2011-11-12 at 13:07

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 11110804 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.

Samples were received on ice.

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.

Report Date: November 14, 2011
TNM-LF-2000-07

Work Order: 11110804
Bob Durham

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Monument, Lea County, NM

Analytical Report

Sample: 281800 - MW 21

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0951	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0886	mg/L	1	0.100	89	67.5 - 140.8

Sample: 281801 - MW 24

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0940	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0891	mg/L	1	0.100	89	67.5 - 140.8

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Sample: 281802 - MW 20

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

		RL					
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	U	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0961	mg/L	1	0.100	96	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0872	mg/L	1	0.100	87	67.5 - 140.8

Sample: 281803 - MW 4

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0948	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0939	mg/L	1	0.100	94	67.5 - 140.8

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Sample: 281804 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0929	mg/L	1	0.100	93	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0900	mg/L	1	0.100	90	67.5 - 140.8

Sample: 281805 - MW 6

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0951	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0922	mg/L	1	0.100	92	67.5 - 140.8

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Sample: 281806 - MW 23

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0883	mg/L	1	0.100	88	67.5 - 140.8

Sample: 281807 - MW 5

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0150	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0969	mg/L	1	0.100	97	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	67.5 - 140.8

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Sample: 281808 - MW 2

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00350	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xyleue	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0979	mg/L	1	0.100	98	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.110	mg/L	1	0.100	110	67.5 - 140.8

Sample: 281809 - MW 7

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0969	mg/L	1	0.100	97	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0964	mg/L	1	0.100	96	67.5 - 140.8

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Sample: 281810 - MW 25

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0941	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0875	mg/L	1	0.100	88	67.5 - 140.8

Sample: 281811 - MW 8

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0963	mg/L	1	0.100	96	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0905	mg/L	1	0.100	90	67.5 - 140.8

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Sample: 281812 - MW 1

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00330	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	<0.00100	mg/L	1	0.00100
Xylene		1	0.00290	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0968	mg/L	1	0.100	97	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0979	mg/L	1	0.100	98	67.5 - 140.8

Sample: 281813 - MW 16

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0988	mg/L	1	0.100	99	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.110	mg/L	1	0.100	110	67.5 - 140.8

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Sample: 281814 - MW 15

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	U	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0950	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0925	mg/L	1	0.100	92	67.5 - 140.8

Sample: 281815 - MW 11

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0974	mg/L	1	0.100	97	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0901	mg/L	1	0.100	90	67.5 - 140.8

Report Date: November 14, 2011
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Sample: 281816 - MW 13

Laboratory: Midland
Analysis: BTEX
QC Batch: 86362
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-11
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00840	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0984	mg/L	1	0.100	98	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.112	mg/L	1	0.100	112	67.5 - 140.8

Sample: 281817 - MW 10

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0943	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0844	mg/L	1	0.100	84	67.5 - 140.8

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Sample: 281818 - MW 33

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL			
				Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0948	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0835	mg/L	1	0.100	84	67.5 - 140.8

Sample: 281819 - MW 32

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0948	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0888	mg/L	1	0.100	89	67.5 - 140.8

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Sample: 281820 - MW 37

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0952	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0855	mg/L	1	0.100	86	67.5 - 140.8

Sample: 281821 - MW 38

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Benzene			1	0.00370	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene			1	0.00330	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0945	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0926	mg/L	1	0.100	93	67.5 - 140.8

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Sample: 281822 - MW 56

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

			RL				
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0945	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0849	mg/L	1	0.100	85	67.5 - 140.8

Sample: 281823 - MW 31

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Benzene			1	0.00160	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0954	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0858	mg/L	1	0.100	86	67.5 - 140.8

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Sample: 281824 - MW 30

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0945	mg/L	1	0.100	94	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0809	mg/L	1	0.100	81	67.5 - 140.8

Sample: 281825 - MW 28

Laboratory: Midland
Analysis: BTEX
QC Batch: 86365
Prep Batch: 73338

Analytical Method: S 8021B
Date Analyzed: 2011-11-12
Sample Preparation: 2011-11-11

Prep Method: S 5030B
Analyzed By: AG
Prepared By: AG

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0952	mg/L	1	0.100	95	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0818	mg/L	1	0.100	82	67.5 - 140.8

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Sample: 281826 - MW 27

Laboratory: Midland

Analysis: BTEX

QC Batch: 86365

Prep Batch: 73338

Analytical Method: S 8021B

Date Analyzed: 2011-11-12

Sample Preparation: 2011-11-11

Prep Method: S 5030B

Analyzed By: AG

Prepared By: AG

				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene	u	U	1	<0.00100	mg/L	1	0.00100
Toluene	u	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	U	1	<0.00100	mg/L	1	0.00100
Xylene	u	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0959	mg/L	1	0.100	96	79.1 - 127.2
4-Bromofluorobenzene (4-BFB)			0.0815	mg/L	1	0.100	82	67.5 - 140.8

Method Blanks

Method Blank (1) QC Batch: 86362

QC Batch: 86362
Prep Batch: 73338

Date Analyzed: 2011-11-11
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0958	mg/L	1	0.100	96	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0895	mg/L	1	0.100	90	45.9 - 126.4

Method Blank (1) QC Batch: 86365

QC Batch: 86365
Prep Batch: 73338

Date Analyzed: 2011-11-12
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000400	mg/L	0.001
Toluene		1	<0.000300	mg/L	0.001
Ethylbenzene		1	<0.000300	mg/L	0.001
Xylene		1	<0.000333	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0950	mg/L	1	0.100	95	61.1 - 118.4
4-Bromofluorobenzene (4-BFB)			0.0873	mg/L	1	0.100	87	45.9 - 126.4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 86362
Prep Batch: 73338

Date Analyzed: 2011-11-11
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000400	104	76.8 - 120.3
Toluene		1	0.0995	mg/L	1	0.100	<0.000300	100	80.9 - 122.2
Ethylbenzene		1	0.0948	mg/L	1	0.100	<0.000300	95	72.7 - 120.2
Xylene		1	0.288	mg/L	1	0.300	<0.000333	96	72.1 - 121.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.107	mg/L	1	0.100	<0.000400	107	76.8 - 120.3	3	20
Toluene		1	0.102	mg/L	1	0.100	<0.000300	102	80.9 - 122.2	2	20
Ethylbenzene		1	0.0967	mg/L	1	0.100	<0.000300	97	72.7 - 120.2	2	20
Xylene		1	0.294	mg/L	1	0.300	<0.000333	98	72.1 - 121.5	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)	0.0949	0.0950	mg/L	1	0.100	95	95	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0990	0.0976	mg/L	1	0.100	99	98	56.4 - 127.9

Laboratory Control Spike (LCS-1)

QC Batch: 86365
Prep Batch: 73338

Date Analyzed: 2011-11-12
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.103	mg/L	1	0.100	<0.000400	103	76.8 - 120.3
Toluene		1	0.0991	mg/L	1	0.100	<0.000300	99	80.9 - 122.2
Ethylbenzene		1	0.0965	mg/L	1	0.100	<0.000300	96	72.7 - 120.2
Xylene		1	0.291	mg/L	1	0.300	<0.000333	97	72.1 - 121.5

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0988	mg/L	1	0.100	<0.000400	99	76.8 - 120.3	4	20
Toluene		1	0.0942	mg/L	1	0.100	<0.000300	94	80.9 - 122.2	5	20
Ethylbenzene		1	0.0909	mg/L	1	0.100	<0.000300	91	72.7 - 120.2	6	20
Xylene		1	0.274	mg/L	1	0.300	<0.000333	91	72.1 - 121.5	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0954	0.0973	mg/L	1	0.100	95	97	61.9 - 119.2
4-Bromofluorobenzene (4-BFB)	0.0980	0.0969	mg/L	1	0.100	98	97	56.4 - 127.9

Matrix Spike (MS-1) Spiked Sample: 281676

QC Batch: 86362
Prep Batch: 73338

Date Analyzed: 2011-11-11
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	14.4	mg/L	50	5.00	8.7117	114	66.9 - 128.2
Toluene		1	4.87	mg/L	50	5.00	<0.0150	97	81.6 - 122.9
Ethylbenzene		1	4.82	mg/L	50	5.00	0.0966	94	62.7 - 117.9
Xylene		1	15.3	mg/L	50	15.0	0.8195	96	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	14.0	mg/L	50	5.00	8.7117	106	66.9 - 128.2	3	20
Toluene		1	4.73	mg/L	50	5.00	<0.0150	95	81.6 - 122.9	3	20
Ethylbenzene		1	4.58	mg/L	50	5.00	0.0966	90	62.7 - 117.9	5	20
Xylene		1	14.7	mg/L	50	15.0	0.8195	92	62.9 - 118.2	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)	4.78	4.69	mg/L	50	5	96	94	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	4.88	4.83	mg/L	50	5	98	97	52.2 - 135.8

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Matrix Spike (MS-1) Spiked Sample: 282044

QC Batch: 86365
Prep Batch: 73338

Date Analyzed: 2011-11-12
QC Preparation: 2011-11-11

Analyzed By: AG
Prepared By: AG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.104	mg/L	1	0.100	<0.000400	104	66.9 - 128.2
Toluene		1	0.0950	mg/L	1	0.100	<0.000300	95	81.6 - 122.9
Ethylbenzene		1	0.0898	mg/L	1	0.100	<0.000300	90	62.7 - 117.9
Xylene		1	0.269	mg/L	1	0.300	<0.000333	90	62.9 - 118.2

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.105	mg/L	1	0.100	<0.000400	105	66.9 - 128.2	1	20
Toluene		1	0.100	mg/L	1	0.100	<0.000300	100	81.6 - 122.9	5	20
Ethylbenzene		1	0.0961	mg/L	1	0.100	<0.000300	96	62.7 - 117.9	7	20
Xylene		1	0.289	mg/L	1	0.300	<0.000333	96	62.9 - 118.2	7	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)	0.0946	0.0924	mg/L	1	0.1	95	92	58.6 - 119.7
4-Bromofluorobenzene (4-BFB)	0.0934	0.0935	mg/L	1	0.1	93	94	52.2 - 135.8

Calibration Standards

Standard (CCV-1)

QC Batch: 86362

Date Analyzed: 2011-11-11

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.103	103	80 - 120	2011-11-11
Toluene		1	mg/L	0.100	0.100	100	80 - 120	2011-11-11
Ethylbenzene		1	mg/L	0.100	0.0948	95	80 - 120	2011-11-11
Xylene		1	mg/L	0.300	0.288	96	80 - 120	2011-11-11

Standard (CCV-2)

QC Batch: 86362

Date Analyzed: 2011-11-11

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-11-11
Toluene		1	mg/L	0.100	0.0963	96	80 - 120	2011-11-11
Ethylbenzene		1	mg/L	0.100	0.0907	91	80 - 120	2011-11-11
Xylene		1	mg/L	0.300	0.275	92	80 - 120	2011-11-11

Standard (CCV-3)

QC Batch: 86362

Date Analyzed: 2011-11-11

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.102	102	80 - 120	2011-11-11
Toluene		1	mg/L	0.100	0.0978	98	80 - 120	2011-11-11
Ethylbenzene		1	mg/L	0.100	0.0942	94	80 - 120	2011-11-11
Xylene		1	mg/L	0.300	0.286	95	80 - 120	2011-11-11

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Standard (CCV-1)

QC Batch: 86365

Date Analyzed: 2011-11-12

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.101	101	80 - 120	2011-11-12
Toluene		1	mg/L	0.100	0.0979	98	80 - 120	2011-11-12
Ethylbenzene		1	mg/L	0.100	0.0957	96	80 - 120	2011-11-12
Xylene		1	mg/L	0.300	0.289	96	80 - 120	2011-11-12

Standard (CCV-2)

QC Batch: 86365

Date Analyzed: 2011-11-12

Analyzed By: AG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.104	104	80 - 120	2011-11-12
Toluene		1	mg/L	0.100	0.0969	97	80 - 120	2011-11-12
Ethylbenzene		1	mg/L	0.100	0.0927	93	80 - 120	2011-11-12
Xylene		1	mg/L	0.300	0.280	93	80 - 120	2011-11-12

Limits of Detection (LOD)

```
select
    t.test,
    t.name as test_name,
    me.method,
    me.name as method_name,
    m.matrix,
    m.composition as matrix_name,
    x.qc_set,
    p.param,
    p.name as param_name,
    tp.sort,
    x.spike_amount,
    x.pass,
    x.sig_fig
from
    tests t,
    matrices m,
    methods me,
    params p,
    test_params tp,
    (
        select distinct
            st.test,
            st.method,
            s.matrix,
            qqs.qc_set,
            sr.param,
            qqs.qc_set,
            lod.spike_amount,
            lod.pass,
            tq1.sig_fig
        from
            samples s,
            sample_tests st,
            sample_results sr,
            qcbatch_qc_sets qqs,
            test_qc_lod lod,
            test_qc_limits tq1
        where
            s.sample=st.sample
            and s.sample=sr.sample
            and st.sample=sr.sample
```

```
        and st.test=sr.test
        and st.test=qqs.test
        and sr.test=qqs.test

        and s.matrix=qqs.matrix
        and st.method=qqs.method
        and sr.qcbatch=qqs.qcbatch

        and qqs.qc_set=lod.qc_set
        and qqs.qc_set=tql.qc_set
        and lod.qc_set=tql.qc_set

        and sr.param=lod.param
        and sr.param=tql.param
        and lod.param=tql.param

        and tql.qctype=0

    and (
(s.sample=281826 and st.test=122)
or (s.sample=281804 and st.test=122)
or (s.sample=281821 and st.test=122)
or (s.sample=281813 and st.test=122)
or (s.sample=281800 and st.test=122)
or (s.sample=281822 and st.test=122)
or (s.sample=281803 and st.test=122)
or (s.sample=281805 and st.test=122)
or (s.sample=281802 and st.test=122)
or (s.sample=281815 and st.test=122)
or (s.sample=281808 and st.test=122)
or (s.sample=281819 and st.test=122)
or (s.sample=281811 and st.test=122)
or (s.sample=281818 and st.test=122)
or (s.sample=281810 and st.test=122)
or (s.sample=281816 and st.test=122)
or (s.sample=281817 and st.test=122)
or (s.sample=281807 and st.test=122)
or (s.sample=281823 and st.test=122)
or (s.sample=281801 and st.test=122)
or (s.sample=281820 and st.test=122)
or (s.sample=281825 and st.test=122)
or (s.sample=281812 and st.test=122)
or (s.sample=281806 and st.test=122)
or (s.sample=281824 and st.test=122)
or (s.sample=281809 and st.test=122)
or (s.sample=281814 and st.test=122))
    ) x
```

```
where
    t.test=x.test
    and t.test=tp.test
    and x.test=tp.test

    and m.matrix=x.matrix
    and m.matrix=tp.matrix
    and x.matrix=tp.matrix

    and me.method=x.method

    and p.param=x.param
    and p.param=tp.param
    and x.param=tp.param

    and tp.qctype=0
    and tp.report is true
    and tp.surrogate is false
order by
    t.name,
    me.name,
    m.name,
    x.qc_set,
    tp.sort
```

\$lod_list

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
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200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name: NOVA Safety & Environmental
Address: (Street, City, Zip) 2057 Commerce Dr. Midland
Contact Person: Bryan Lee Ben Rueschville
Invoice to: (If different from above)
Project #: TNM-LF-2000-7

Phone #: 432-520-7720
Fax #:
E-mail:
Project Name:
Project Location (including state): Monument NM

Project Signature:
Sample Signature:
Volume / Amount: 3 VOA

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME	DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE				
281800	MW 21	3	VOA												11/3	1200	
801	MW 24															1205	
802	MW 20															1215	
803	MW 4															1230	
804	MW 3															1300	
805	MW 6															1255	
806	MW 23															1225	
807	MW 5															1315	
808	MW 2															0305	
809	MW 7															1235	
810	MW 25															1245	

Relinquished by: Bryan Lee	Company: NOVA	Date: 11/8/11	Time: 800	Received by: [Signature]	Company: Nova	Date: 11/9/11	Time: 0853
Relinquished by: [Signature]	Company: Nova	Date: 11/8/11	Time: 0853	Received by: [Signature]	Company: Nova	Date: 11/9/11	Time: 0853
Relinquished by: [Signature]	Company: Nova	Date: 11/9/11	Time: 0853	Received by: [Signature]	Company: Nova	Date: 11/9/11	Time: 0853

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.
ORIGINAL COPY
Carrier # [Signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	✓
BTEX 8021 / 602 / 8260 / 624	✓
TPH 418, 117X1005 TX1005 EX(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	
PCBs 8082 / 608	
Pesticides 8081 / 608	
BOD, TSS, pH	
Moisture Content	
Cl, Fl, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	

LAB USE ONLY	REMARKS: All tests-Midland
Initials: [Signature]	
Headspace Y/N: [Signature]	
Log-in-Review	
Dry Weight Basis Required	
TRRP Report Required	
Check if Special Reporting Limits Are Needed	

Turn Around Time if different from standard	
---	--

TraceAnalysis, Inc.

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Fax (432) 888-6313

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750
1 (888) 568-3443

Company Name: NOVA Safety & Environmental
Address: 2057 Commerce
Contact Person: Brighton Ren Ramsaile
Phone #: 432-520-7720
Fax #:
E-mail:
Invoice to:
(if different from above)
Project #:

Project Name: TNM-LE-200-7
Sampler Signature: [Signature]
Project Location (including state): MONUMENT, NM

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
28182	MW 38	3	104											1040
822	MW 52	1												1045
823	MW 31	1												1030
824	MW 30	1												1025
825	MW 28	1												5101
826	MW 27													0241 7/11

ANALYSIS REQUEST (Circle or Specify Method No.)

☐	MTBE 8021 / 602 / 8260 / 624
☒	BTEX 8021 / 602 / 8260 / 624
☐	TPH 418.1 (TX1005 Ex(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, FI, S04, NO3, NO2, Alkalinity
☐	Na, Ca, Mg, K, TDS, EC
☐	Turn Around Time if different from standard

Relinquished by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0800</u>	Received by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0852</u>	INST OBS <u>9.5</u>	INST COR <u></u>
Relinquished by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0852</u>	Received by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0852</u>	INST OBS <u>9.5</u>	INST COR <u></u>
Relinquished by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0852</u>	Received by: <u>[Signature]</u>	Company: <u>NOVA</u>	Date: <u>1/24</u>	Time: <u>0852</u>	INST OBS <u>9.5</u>	INST COR <u></u>

LAB USE ONLY
Inlet DLN
Headspace Y/N
Log-In/Review

REMARKS:

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



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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•686•6301 FAX 432•686•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•261•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: December 23, 2011

Work Order: 11121911



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
284750	MW-2	water	2011-12-15	14:05	2011-12-16
284751	MW-4	water	2011-12-15	13:25	2011-12-16
284752	MW-5	water	2011-12-15	13:50	2011-12-16
284753	MW-7	water	2011-12-15	13:35	2011-12-16
284754	MW-8	water	2011-12-15	14:30	2011-12-16
284755	MW-13	water	2011-12-15	15:10	2011-12-16
284756	MW-16	water	2011-12-15	14:15	2011-12-16
284757	MW-32	water	2011-12-15	15:30	2011-12-16
284758	MW-38	water	2011-12-15	15:45	2011-12-16

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

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive style with a large, stylized 'M' and 'A'.

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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2011-12-16 and assigned to work order 11121911. Samples for work order 11121911 were received intact at a temperature of 11.3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
PAH	S 8270D	74197	2011-12-20 at 15:00	87378	2011-12-22 at 11:26

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 11121911 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: 284750 - MW-2

Laboratory: Lubbock
Analysis: PAH
QC Batch: 87378
Prep Batch: 74197

Analytical Method: S 8270D
Date Analyzed: 2011-12-22
Sample Preparation: 2011-12-20

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1	0.00381	mg/L	0.913	0.000200
2-Methylnaphthalene		1	0.00308	mg/L	0.913	0.000200
1-Methylnaphthalene			0.00711	mg/L	0.913	0.000200
Acenaphthylene	U	U	<0.000183	mg/L	0.913	0.000200
Acenaphthene	U	U	<0.000183	mg/L	0.913	0.000200
Dibenzofuran		1	0.00231	mg/L	0.913	0.000200
Fluorene	Qc,U	Qc,U	<0.000183	mg/L	0.913	0.000200
Anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Phenanthrene			0.000772	mg/L	0.913	0.000200
Fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Chrysene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	U	U	<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0637	mg/L	0.913	0.0800	80	10 - 117
2-Fluorobiphenyl			0.0609	mg/L	0.913	0.0800	76	10 - 99
Terphenyl-d14			0.0668	mg/L	0.913	0.0800	84	22.6 - 115

Report Date: December 23, 2011
TNM-LF-2000-07

Work Order: 11121911
Bob Durham

Page Number: 6 of 18
Monument, Lea County, NM

Sample: 284751 - MW-4

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Naphthalene	U	U	1	<0.000183	mg/L	0.917	0.000200
2-Methylnaphthalene			1	0.000590	mg/L	0.917	0.000200
1-Methylnaphthalene				0.00115	mg/L	0.917	0.000200
Acenaphthylene	U	U	1	<0.000183	mg/L	0.917	0.000200
Acenaphthene	U	U	1	<0.000183	mg/L	0.917	0.000200
Dibenzofuran	U	U	1	<0.000183	mg/L	0.917	0.000200
Fluorene	QC,U	QC,U	1	<0.000183	mg/L	0.917	0.000200
Anthracene	U	U	1	<0.000183	mg/L	0.917	0.000200
Phenanthrene	U	U		<0.000183	mg/L	0.917	0.000200
Fluoranthene	U	U		<0.000183	mg/L	0.917	0.000200
Pyrene	U	U	1	<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene	U	U		<0.000183	mg/L	0.917	0.000200
Chrysene	U	U	1	<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene	U	U		<0.000183	mg/L	0.917	0.000200
Benzo(k)fluoranthene	U	U	1	<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene	U	U	1	<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene	U	U	1	<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene	U	U	1	<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene	U	U		<0.000183	mg/L	0.917	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0735	mg/L	0.917	0.0800	92	10 - 117
2-Fluorobiphenyl			0.0663	mg/L	0.917	0.0800	83	10 - 99
Terphenyl-d14			0.0748	mg/L	0.917	0.0800	94	22.6 - 115

Sample: 284752 - MW-5

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene		1	0.0134	mg/L	0.913	0.000200

continued ...

sample 284752 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
2-Methylnaphthalene		1	0.0210	mg/L	0.913	0.000200
1-Methylnaphthalene			0.0321	mg/L	0.913	0.000200
Acenaphthylene	u	u	<0.000183	mg/L	0.913	0.000200
Acenaphthene	u	u	<0.000183	mg/L	0.913	0.000200
Dibenzofuran		1	0.00379	mg/L	0.913	0.000200
Fluorene	QC,U	QC,U	<0.000183	mg/L	0.913	0.000200
Anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Phenanthrene			0.00590	mg/L	0.913	0.000200
Fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Chrysene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	u	u	<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0592	mg/L	0.913	0.0800	74	10 - 117
2-Fluorobiphenyl			0.0462	mg/L	0.913	0.0800	58	10 - 99
Terphenyl-d14			0.0588	mg/L	0.913	0.0800	74	22.6 - 115

Sample: 284753 - MW-7

Laboratory: Lubbock
Analysis: PAH
QC Batch: 87378
Prep Batch: 74197

Analytical Method: S 8270D
Date Analyzed: 2011-12-22
Sample Preparation: 2011-12-20

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	u	u	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	u	u	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene	u	u	<0.000183	mg/L	0.913	0.000200
Acenaphthylene	u	u	<0.000183	mg/L	0.913	0.000200
Acenaphthene	u	u	<0.000183	mg/L	0.913	0.000200
Dibenzofuran		1	0.000809	mg/L	0.913	0.000200

continued ...

sample 284753 continued ...

Parameter	RL						
	Flag	Cert	Result	Units	Dilution	RL	
Fluorene	Qc,U	Qc,U	1	<0.000183	mg/L	0.913	0.000200
Anthracene	U	U	1	<0.000183	mg/L	0.913	0.000200
Phenanthrene	U	U		<0.000183	mg/L	0.913	0.000200
Fluorantbene	U	U		<0.000183	mg/L	0.913	0.000200
Pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	U	U		<0.000183	mg/L	0.913	0.000200
Chrysene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U	U		<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	U	U		<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0382	mg/L	0.913	0.0800	48	10 - 117
2-Fluorobiphenyl			0.0389	mg/L	0.913	0.0800	49	10 - 99
Terphenyl-d14			0.0487	mg/L	0.913	0.0800	61	22.6 - 115

Sample: 284754 - MW-8

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter		Flag	Cert	RL	Units	Dilution	RL
				Result			
Naphthalene	U	U	1	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	U	U	1	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene				0.000260	mg/L	0.913	0.000200
Acenaphthylene	U	U	1	<0.000183	mg/L	0.913	0.000200
Acenaphthene	U	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzofuran			1	0.00102	mg/L	0.913	0.000200
Fluorene	Qc	Qc	1	0.00167	mg/L	0.913	0.000200
Anthracene	U	U	1	<0.000183	mg/L	0.913	0.000200
Phenanthrene	U	U		<0.000183	mg/L	0.913	0.000200
Fluoranthene	U	U		<0.000183	mg/L	0.913	0.000200
Pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200

continued ...

sample 284754 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzo(a)anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Chrysene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	U	U	<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0432	mg/L	0.913	0.0800	54	10 - 117
2-Fluorobiphenyl			0.0455	mg/L	0.913	0.0800	57	10 - 99
Terphenyl-d14			0.0559	mg/L	0.913	0.0800	70	22.6 - 115

Sample: 284755 - MW-13

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene			0.00400	mg/L	0.913	0.000200
2-Methylnaphthalene			0.00387	mg/L	0.913	0.000200
1-Methylnaphthalene			0.00851	mg/L	0.913	0.000200
Acenaphthylene	U	U	<0.000183	mg/L	0.913	0.000200
Acenaphthene	U	U	<0.000183	mg/L	0.913	0.000200
Dibenzofuran			0.00169	mg/L	0.913	0.000200
Fluorene	Qc	Qc	0.00126	mg/L	0.913	0.000200
Anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Phenanthrene			0.000590	mg/L	0.913	0.000200
Fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Pyrene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	U	U	<0.000183	mg/L	0.913	0.000200
Chrysene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	U	U	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	U	<0.000183	mg/L	0.913	0.000200

continued ...

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sample 284755 continued ...

Parameter	Flag	Cert	RL	Units	Dilution	RL	
			Result				
Indeno(1,2,3-cd)pyrene	u	u	1	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	u	u	1	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	u	u		<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0522	mg/L	0.913	0.0800	65	10 - 117
2-Fluorobiphenyl			0.0499	mg/L	0.913	0.0800	62	10 - 99
Terphenyl-d14			0.0580	mg/L	0.913	0.0800	72	22.6 - 115

Sample: 284756 - MW-16

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL	
Naphthalene		1	0.00104	mg/L	0.917	0.000200	
2-Methylnaphthalene		1	0.00117	mg/L	0.917	0.000200	
1-Methylnaphthalene			0.00500	mg/L	0.917	0.000200	
Acenaphthylene	u	u	1	<0.000183	mg/L	0.917	0.000200
Acenaphthene	u	u	1	<0.000183	mg/L	0.917	0.000200
Dibenzofnran		1	0.00210	mg/L	0.917	0.000200	
Fluorene	Qc	Qc	1	0.00246	mg/L	0.917	0.000200
Anthracene	u	u	1	<0.000183	mg/L	0.917	0.000200
Phenanthrene			0.000927	mg/L	0.917	0.000200	
Fluoranthene	u	u	<0.000183	mg/L	0.917	0.000200	
Pyrene	u	u	1	<0.000183	mg/L	0.917	0.000200
Benzo(a)anthracene	u	u	<0.000183	mg/L	0.917	0.000200	
Chrysene	u	u	1	<0.000183	mg/L	0.917	0.000200
Benzo(b)fluoranthene	u	u	<0.000183	mg/L	0.917	0.000200	
Benzo(k)fluoranthene	u	u	1	<0.000183	mg/L	0.917	0.000200
Benzo(a)pyrene	u	u	1	<0.000183	mg/L	0.917	0.000200
Indeno(1,2,3-cd)pyrene	u	u	1	<0.000183	mg/L	0.917	0.000200
Dibenzo(a,h)anthracene	u	u	1	<0.000183	mg/L	0.917	0.000200
Benzo(g,h,i)perylene	u	u	<0.000183	mg/L	0.917	0.000200	

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0535	mg/L	0.917	0.0800	67	10 - 117
2-Fluorobiphenyl			0.0553	mg/L	0.917	0.0800	69	10 - 99
Terphenyl-d14			0.0626	mg/L	0.917	0.0800	78	22.6 - 115

Sample: 284757 - MW-32

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	u	u	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	u	u	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene	u	u	<0.000183	mg/L	0.913	0.000200
Acenaphthylene	u	u	<0.000183	mg/L	0.913	0.000200
Acenaphthene	u	u	<0.000183	mg/L	0.913	0.000200
Dibenzofuran	u	u	<0.000183	mg/L	0.913	0.000200
Fluorene	Qc,U	Qc,U	<0.000183	mg/L	0.913	0.000200
Anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Phenanthrene	u	u	<0.000183	mg/L	0.913	0.000200
Fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Chrysene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	u	u	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	u	u	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	u	u	<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0739	mg/L	0.913	0.0800	92	10 - 117
2-Fluorobiphenyl			0.0688	mg/L	0.913	0.0800	86	10 - 99
Terphenyl-d14			0.0887	mg/L	0.913	0.0800	111	22.6 - 115

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Sample: 284758 - MW-38

Laboratory: Lubbock

Analysis: PAH

QC Batch: 87378

Prep Batch: 74197

Analytical Method: S 8270D

Date Analyzed: 2011-12-22

Sample Preparation: 2011-12-20

Prep Method: S 3510C

Analyzed By: MN

Prepared By: MN

Parameter		Flag	Cert	RL Result	Units	Dilution	RL
Naphthalene	U	U	1	<0.000183	mg/L	0.913	0.000200
2-Methylnaphthalene	U	U	1	<0.000183	mg/L	0.913	0.000200
1-Methylnaphthalene				0.00187	mg/L	0.913	0.000200
Acenaphthylene	U	U	1	<0.000183	mg/L	0.913	0.000200
Acenaphthene	U	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzofuran	U	U	1	<0.000183	mg/L	0.913	0.000200
Fluorene	Qc,U	Qc,U	1	<0.000183	mg/L	0.913	0.000200
Anthracene	U	U	1	<0.000183	mg/L	0.913	0.000200
Phenanthrene				0.00221	mg/L	0.913	0.000200
Fluoranthene	U	U		<0.000183	mg/L	0.913	0.000200
Pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)anthracene	U	U		<0.000183	mg/L	0.913	0.000200
Chrysene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(b)fluoranthene	U	U		<0.000183	mg/L	0.913	0.000200
Benzo(k)fluoranthene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(a)pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Indeno(1,2,3-cd)pyrene	U	U	1	<0.000183	mg/L	0.913	0.000200
Dibenzo(a,h)anthracene	U	U	1	<0.000183	mg/L	0.913	0.000200
Benzo(g,h,i)perylene	U	U		<0.000183	mg/L	0.913	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0341	mg/L	0.913	0.0800	43	10 - 117
2-Fluorobiphenyl			0.0287	mg/L	0.913	0.0800	36	10 - 99
Terphenyl-d14			0.0382	mg/L	0.913	0.0800	48	22.6 - 115

Method Blanks

Method Blank (1) QC Batch: 87378

QC Batch: 87378
Prep Batch: 74197

Date Analyzed: 2011-12-22
QC Preparation: 2011-12-20

Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.0000904	mg/L	0.0002
2-Methylnaphthalene		1	<0.000184	mg/L	0.0002
1-Methylnaphthalene			<0.000120	mg/L	0.0002
Acenaphthylene		1	<0.000101	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000119	mg/L	0.0002
Fluorene		1	<0.000198	mg/L	0.0002
Anthracene		1	<0.000190	mg/L	0.0002
Phenanthrene			<0.000190	mg/L	0.0002
Fluoranthene			<0.000122	mg/L	0.0002
Pyrene		1	<0.000142	mg/L	0.0002
Benzo(a)anthracene			<0.000138	mg/L	0.0002
Chrysene		1	<0.000155	mg/L	0.0002
Benzo(b)fluoranthene			<0.000179	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.000185	mg/L	0.0002
Benzo(a)pyrene		1	<0.000169	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1	<0.000139	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.000107	mg/L	0.0002
Benzo(g,h,i)perylene			<0.000143	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0351	mg/L	1	0.0800	44	10 - 117
2-Fluorobiphenyl			0.0252	mg/L	1	0.0800	32	10 - 99
Terphenyl-d14			0.0493	mg/L	1	0.0800	62	22.6 - 115

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87378
Prep Batch: 74197

Date Analyzed: 2011-12-22
QC Preparation: 2011-12-20

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0369	mg/L	1	0.0800	<0.0000904	46	10 - 89.9
2-Methylnaphthalene		1	0.0427	mg/L	1	0.0800	<0.000184	53	13.8 - 98.4
1-Methylnaphthalene			0.0486	mg/L	1	0.0800	<0.000120	61	13.1 - 103
Acenaphthylene		1	0.0485	mg/L	1	0.0800	<0.000101	61	20 - 104
Acenaphthene		1	0.0461	mg/L	1	0.0800	<0.000122	58	21.6 - 94.6
Dibenzofuran		1	0.0413	mg/L	1	0.0800	<0.000119	52	22.9 - 74.9
Fluorene		1	0.0492	mg/L	1	0.0800	<0.000198	62	30.8 - 109
Anthracene		1	0.0623	mg/L	1	0.0800	<0.000190	78	37.6 - 96.4
Phenanthrene			0.0628	mg/L	1	0.0800	<0.000190	78	42.4 - 99.8
Fluoranthene			0.0579	mg/L	1	0.0800	<0.000122	72	48 - 118
Pyrene		1	0.0566	mg/L	1	0.0800	<0.000142	71	45.3 - 109
Benzo(a)anthracene			0.0702	mg/L	1	0.0800	<0.000138	88	48 - 113
Chrysene		1	0.0770	mg/L	1	0.0800	<0.000155	96	35.2 - 175
Benzo(b)fluoranthene			0.0497	mg/L	1	0.0800	<0.000179	62	16.6 - 106
Benzo(k)fluoranthene		1	0.0523	mg/L	1	0.0800	<0.000185	65	36.8 - 99.4
Benzo(a)pyrene		1	0.0500	mg/L	1	0.0800	<0.000169	62	32.3 - 99.7
Indeno(1,2,3-cd)pyrene		1	0.0502	mg/L	1	0.0800	<0.000139	63	34.1 - 106
Dibenzo(a,h)anthracene		1	0.0430	mg/L	1	0.0800	<0.000107	54	47.1 - 103
Benzo(g,h,i)perylene			0.0522	mg/L	1	0.0800	<0.000143	65	21.9 - 112

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1	0.0368	mg/L	1	0.0800	<0.0000904	46	10 - 89.9	0	20
2-Methylnaphthalene		1	0.0428	mg/L	1	0.0800	<0.000184	54	13.8 - 98.4	0	20
1-Methylnaphthalene			0.0484	mg/L	1	0.0800	<0.000120	60	13.1 - 103	0	20
Acenaphthylene		1	0.0491	mg/L	1	0.0800	<0.000101	61	20 - 104	1	20
Acenaphthene		1	0.0463	mg/L	1	0.0800	<0.000122	58	21.6 - 94.6	0	20
Dibenzofuran		1	0.0412	mg/L	1	0.0800	<0.000119	52	22.9 - 74.9	0	20
Fluorene		1	0.0494	mg/L	1	0.0800	<0.000198	62	30.8 - 109	0	20
Anthracene		1	0.0638	mg/L	1	0.0800	<0.000190	80	37.6 - 96.4	2	20
Phenanthrene			0.0635	mg/L	1	0.0800	<0.000190	79	42.4 - 99.8	1	20
Fluoranthene			0.0600	mg/L	1	0.0800	<0.000122	75	48 - 118	4	20
Pyrene		1	0.0576	mg/L	1	0.0800	<0.000142	72	45.3 - 109	2	20

continued ...

control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzo(a)anthracene			0.0708	mg/L	1	0.0800	<0.000138	88	48 - 113	1	20
Chrysene		1	0.0770	mg/L	1	0.0800	<0.000155	96	35.2 - 175	0	20
Benzo(b)fluoranthene			0.0505	mg/L	1	0.0800	<0.000179	63	16.6 - 106	2	20
Benzo(k)fluoranthene		1	0.0498	mg/L	1	0.0800	<0.000185	62	36.8 - 99.4	5	20
Benzo(a)pyrene		1	0.0511	mg/L	1	0.0800	<0.000169	64	32.3 - 99.7	2	20
Indeno(1,2,3-cd)pyrene		1	0.0516	mg/L	1	0.0800	<0.000139	64	34.1 - 106	3	20
Dibenzo(a,h)anthracene		1	0.0443	mg/L	1	0.0800	<0.000107	55	47.1 - 103	3	20
Benzo(g,h,i)perylene			0.0529	mg/L	1	0.0800	<0.000143	66	21.9 - 112	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Nitrobenzene-d5	0.0420	0.0418	mg/L	1	0.0800	52	52	10 - 117
2-Fluorobiphenyl	0.0364	0.0367	mg/L	1	0.0800	46	46	10 - 99
Terphenyl-d14	0.0543	0.0558	mg/L	1	0.0800	68	70	22.6 - 115

Calibration Standards

Standard (CCV-1)

QC Batch: 87378

Date Analyzed: 2011-12-22

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	50.7	84	80 - 120	2011-12-22
2-Methylnaphthalene		1	mg/L	60.0	50.0	83	80 - 120	2011-12-22
1-Methylnaphthalene			mg/L	60.0	58.9	98	80 - 120	2011-12-22
Acenaphthylene		1	mg/L	60.0	51.1	85	80 - 120	2011-12-22
Acenaphthene		1	mg/L	60.0	50.6	84	80 - 120	2011-12-22
Dibenzofuran		1	mg/L	60.0	49.1	82	80 - 120	2011-12-22
Fluorene	Qc	Qc	1	mg/L	60.0	47.9	80	80 - 120
Anthracene		1	mg/L	60.0	59.0	98	80 - 120	2011-12-22
Phenanthrene			mg/L	60.0	58.6	98	80 - 120	2011-12-22
Fluoranthene			mg/L	60.0	59.2	99	80 - 120	2011-12-22
Pyrene		1	mg/L	60.0	54.2	90	80 - 120	2011-12-22
Benzo(a)anthracene			mg/L	60.0	60.3	100	80 - 120	2011-12-22
Chrysene		1	mg/L	60.0	52.5	88	80 - 120	2011-12-22
Benzo(b)fluoranthene			mg/L	60.0	50.6	84	80 - 120	2011-12-22
Benzo(k)fluoranthene		1	mg/L	60.0	49.7	83	80 - 120	2011-12-22
Benzo(a)pyrene		1	mg/L	60.0	53.3	89	80 - 120	2011-12-22
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	53.6	89	80 - 120	2011-12-22
Dibenzo(a,h)anthracene		1	mg/L	60.0	54.8	91	80 - 120	2011-12-22
Benzo(g,h,i)perylene			mg/L	60.0	52.3	87	80 - 120	2011-12-22

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			58.4	mg/L	1	60.0	97	-
2-Fluorobiphenyl			53.8	mg/L	1	60.0	90	-
Terphenyl-d14			58.2	mg/L	1	60.0	97	-

Standard (CCV-2)

QC Batch: 87378

Date Analyzed: 2011-12-22

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	50.8	85	80 - 120	2011-12-22

continued ...

standard continued . . .

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2-Methylnaphthalene		1	mg/L	60.0	49.0	82	80 - 120	2011-12-22
1-Methylnaphthalene			mg/L	60.0	56.9	95	80 - 120	2011-12-22
Acenaphthylene		1	mg/L	60.0	52.0	87	80 - 120	2011-12-22
Acenaphthene		1	mg/L	60.0	50.8	85	80 - 120	2011-12-22
Dibenzofuran		1	mg/L	60.0	49.5	82	80 - 120	2011-12-22
Fluorene		1	mg/L	60.0	48.1	80	80 - 120	2011-12-22
Anthracene		1	mg/L	60.0	59.3	99	80 - 120	2011-12-22
Phenanthrene			mg/L	60.0	58.8	98	80 - 120	2011-12-22
Fluoranthene			mg/L	60.0	61.4	102	80 - 120	2011-12-22
Pyrene		1	mg/L	60.0	57.8	96	80 - 120	2011-12-22
Benzo(a)anthracene			mg/L	60.0	59.9	100	80 - 120	2011-12-22
Chrysene		1	mg/L	60.0	52.4	87	80 - 120	2011-12-22
Benzo(b)fluoranthene			mg/L	60.0	50.8	85	80 - 120	2011-12-22
Benzo(k)fluoranthene		1	mg/L	60.0	50.3	84	80 - 120	2011-12-22
Benzo(a)pyrene		1	mg/L	60.0	51.4	86	80 - 120	2011-12-22
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	52.7	88	80 - 120	2011-12-22
Dibenzo(a,h)anthracene		1	mg/L	60.0	55.0	92	80 - 120	2011-12-22
Benzo(g,h,i)perylene			mg/L	60.0	51.7	86	80 - 120	2011-12-22

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			60.2	mg/L	1	60.0	100	-
2-Fluorobiphenyl			56.9	mg/L	1	60.0	95	-
Terphenyl-d14			61.6	mg/L	1	60.0	103	-

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-5	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

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

Company Name: _____

Address: NOVA (Street, C

Fax #:

Contact Person:

E-mail:

Invoice to:

(If different from above)

Project #:

Project Name:

Bob Dufrene
Sampler Signature:

TAM - LF - 2000-7
Project Location (including state):

[illegible]

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021 / 602 / 8260 / 624	
BTEX 8021 / 602 / 8260 / 624	
TPH 418.1 / TX1005 / TX1005 Ex(C35)	
TPH 8015 GRO / DRO / TVHC	
PAH 8270 / 825	
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, F1, S04, NO3, NO2, Alkalinity	
Na, Ca, Mg, K, TDS, EC	
Turn Around Time if different from standard	
Hold	

REMARKS:

LAB USE ONLY

Company:	Date:	Time:	Received by:	Company:	Date:	Time:	OBS:	INST:
7A	12/16/11	8:42	[Signature]	7A	12/16/11	8:42	113.0	
Company:	Date:	Time:	Received by:	Company:	Date:	Time:	OBS:	INST:
7A	12/16/11	10:05	[Signature]	7A	12/16/11	10:05		

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

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

YOU FIND IT

Carrier # WVLY 258113090



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•379•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

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: January 5, 2012

Work Order: 11122015



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

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
284936	MW-1	water	2011-12-16	13:25	2011-12-19

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 9 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

Report Contents

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2011-12-19 and assigned to work order 11122015. Samples for work order 11122015 were received intact at a temperature of 7.1 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
PAH	S 8270D	74399	2012-12-22 at 15:00	87624	2012-01-05 at 11:26

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 11122015 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: 284936 - MW-1

Laboratory: Lubbock
Analysis: PAH
QC Batch: 87624
Prep Batch: 74399

Analytical Method: S 8270D
Date Analyzed: 2012-01-05
Sample Preparation: 2012-12-22

Prep Method: S 3510C
Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	Result	Units	Dilution	RL
Naphthalene		1	0.00319	mg/L	0.922	0.000200
2-Methylnaphthalene		1	0.00561	mg/L	0.922	0.000200
1-Methylnaphthalene			0.00754	mg/L	0.922	0.000200
Acenaphthylene	U	1	<0.000184	mg/L	0.922	0.000200
Acenaphthene	U	1	<0.000184	mg/L	0.922	0.000200
Dibenzofuran		1	0.000830	mg/L	0.922	0.000200
Fluorene		1	0.00101	mg/L	0.922	0.000200
Anthracene	U	1	<0.000184	mg/L	0.922	0.000200
Phenanthrene			0.00106	mg/L	0.922	0.000200
Fluoranthene	U		<0.000184	mg/L	0.922	0.000200
Pyrene	U	1	<0.000184	mg/L	0.922	0.000200
Benzo(a)anthracene	U		<0.000184	mg/L	0.922	0.000200
Chrysene	U	1	<0.000184	mg/L	0.922	0.000200
Benzo(b)fluoranthene	U		<0.000184	mg/L	0.922	0.000200
Benzo(k)fluoranthene	Qr,U	1	<0.000184	mg/L	0.922	0.000200
Benzo(a)pyrene	U	1	<0.000184	mg/L	0.922	0.000200
Indeno(1,2,3-cd)pyrene	U	1	<0.000184	mg/L	0.922	0.000200
Dibenzo(a,h)anthracene	U	1	<0.000184	mg/L	0.922	0.000200
Benzo(g,h,i)perylene	U		<0.000184	mg/L	0.922	0.000200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0286	mg/L	0.922	0.0800	36	10 - 117
2-Fluorobiphenyl			0.0371	mg/L	0.922	0.0800	46	10 - 99
Terphenyl-d14			0.0421	mg/L	0.922	0.0800	53	22.6 - 115

Method Blanks

Method Blank (1) QC Batch: 87624

QC Batch: 87624
Prep Batch: 74399

Date Analyzed: 2012-01-05
QC Preparation: 2012-12-22

Analyzed By: MN
Prepared By: MN

Parameter	Flag	Cert	MDL Result	Units	RL
Naphthalene		1	<0.0000904	mg/L	0.0002
2-Methylnaphthalene		1	<0.000184	mg/L	0.0002
1-Methylnaphthalene			<0.000120	mg/L	0.0002
Acenaphthylene		1	<0.000101	mg/L	0.0002
Acenaphthene		1	<0.000122	mg/L	0.0002
Dibenzofuran		1	<0.000119	mg/L	0.0002
Fluorene		1	<0.000198	mg/L	0.0002
Anthracene		1	<0.000190	mg/L	0.0002
Phenanthrene			<0.000190	mg/L	0.0002
Fluoranthene			<0.000122	mg/L	0.0002
Pyrene		1	<0.000142	mg/L	0.0002
Benzo(a)anthracene			<0.000138	mg/L	0.0002
Chrysene		1	<0.000155	mg/L	0.0002
Benzo(b)fluoranthene			<0.000179	mg/L	0.0002
Benzo(k)fluoranthene		1	<0.000185	mg/L	0.0002
Benzo(a)pyrene		1	<0.000169	mg/L	0.0002
Indeno(1,2,3-cd)pyrene		1	<0.000139	mg/L	0.0002
Dibenzo(a,h)anthracene		1	<0.000107	mg/L	0.0002
Benzo(g,h,i)perylene			<0.000143	mg/L	0.0002

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5			0.0369	mg/L	1	0.0800	46	10 - 117
2-Fluorobiphenyl			0.0323	mg/L	1	0.0800	40	10 - 99
Terphenyl-d14			0.0357	mg/L	1	0.0800	45	22.6 - 115

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 87624
Prep Batch: 74399

Date Analyzed: 2012-01-05
QC Preparation: 2012-12-22

Analyzed By: MN
Prepared By: MN

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Naphthalene		1	0.0281	mg/L	1	0.0800	<0.0000904	35	10 - 89.9
2-Methylnaphthalene		1	0.0325	mg/L	1	0.0800	<0.000184	41	13.8 - 98.4
1-Methylnaphthalene			0.0312	mg/L	1	0.0800	<0.000120	39	13.1 - 103
Acenaphthylene		1	0.0370	mg/L	1	0.0800	<0.000101	46	20 - 104
Acenaphthene		1	0.0357	mg/L	1	0.0800	<0.000122	45	21.6 - 94.6
Dibenzofuran		1	0.0392	mg/L	1	0.0800	<0.000119	49	22.9 - 74.9
Fluorene		1	0.0396	mg/L	1	0.0800	<0.000198	50	30.8 - 109
Anthracene		1	0.0426	mg/L	1	0.0800	<0.000190	53	37.6 - 96.4
Phenanthrene			0.0430	mg/L	1	0.0800	<0.000190	54	42.4 - 99.8
Fluoranthene			0.0469	mg/L	1	0.0800	<0.000122	59	48 - 118
Pyrene		1	0.0457	mg/L	1	0.0800	<0.000142	57	45.3 - 109
Benzo(a)anthracene			0.0548	mg/L	1	0.0800	<0.000138	68	48 - 113
Chrysene		1	0.0619	mg/L	1	0.0800	<0.000155	77	35.2 - 175
Benzo(b)fluoranthene			0.0384	mg/L	1	0.0800	<0.000179	48	16.6 - 106
Benzo(k)fluoranthene		1	0.0367	mg/L	1	0.0800	<0.000185	46	36.8 - 99.4
Benzo(a)pyrene		1	0.0384	mg/L	1	0.0800	<0.000169	48	32.3 - 99.7
Indeno(1,2,3-cd)pyrene		1	0.0420	mg/L	1	0.0800	<0.000139	52	34.1 - 106
Dibenzo(a,h)anthracene		1	0.0559	mg/L	1	0.0800	<0.000107	70	47.1 - 103
Benzo(g,h,i)perylene			0.0407	mg/L	1	0.0800	<0.000143	51	21.9 - 112

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Naphthalene		1	0.0317	mg/L	1	0.0800	<0.0000904	40	10 - 89.9	12	20
2-Methylnaphthalene		1	0.0374	mg/L	1	0.0800	<0.000184	47	13.8 - 98.4	14	20
1-Methylnaphthalene			0.0358	mg/L	1	0.0800	<0.000120	45	13.1 - 103	14	20
Acenaphthylene		1	0.0410	mg/L	1	0.0800	<0.000101	51	20 - 104	10	20
Acenaphthene		1	0.0398	mg/L	1	0.0800	<0.000122	50	21.6 - 94.6	11	20
Dibenzofuran		1	0.0434	mg/L	1	0.0800	<0.000119	54	22.9 - 74.9	10	20
Fluorene		1	0.0426	mg/L	1	0.0800	<0.000198	53	30.8 - 109	7	20
Anthracene		1	0.0475	mg/L	1	0.0800	<0.000190	59	37.6 - 96.4	11	20
Phenanthrene			0.0484	mg/L	1	0.0800	<0.000190	60	42.4 - 99.8	12	20
Fluoranthene			0.0516	mg/L	1	0.0800	<0.000122	64	48 - 118	10	20
Pyrene		1	0.0488	mg/L	1	0.0800	<0.000142	61	45.3 - 109	7	20

continued ...

control spikes continued ...

Param	F	C	LCSD		Dil.	Spike	Matrix		Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit	
Benzo(a)anthracene			0.0608	mg/L	1	0.0800	<0.000138	76	48 - 113	10	20	
Chrysene		1	0.0687	mg/L	1	0.0800	<0.000155	86	35.2 - 175	10	20	
Benzo(b)fluoranthene			0.0390	mg/L	1	0.0800	<0.000179	49	16.6 - 106	2	20	
Benzo(k)fluoranthene	Qr	Qr	1	0.0458	mg/L	1	0.0800	<0.000185	57	36.8 - 99.4	22	20
Benzo(a)pyrene		1	0.0434	mg/L	1	0.0800	<0.000169	54	32.3 - 99.7	12	20	
Indeno(1,2,3-cd)pyrene		1	0.0470	mg/L	1	0.0800	<0.000139	59	34.1 - 106	11	20	
Dibenzo(a,h)anthracene		1	0.0627	mg/L	1	0.0800	<0.000107	78	47.1 - 103	12	20	
Benzo(g,h,i)perylene			0.0454	mg/L	1	0.0800	<0.000143	57	21.9 - 112	11	20	

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Nitrobenzene-d5	0.0368	0.0403	mg/L	1	0.0800	46	50	10 - 117
2-Fluorobiphenyl	0.0358	0.0402	mg/L	1	0.0800	45	50	10 - 99
Terphenyl-d14	0.0525	0.0562	mg/L	1	0.0800	66	70	22.6 - 115

Calibration Standards

Standard (CCV-3)

QC Batch: 87624

Date Analyzed: 2012-01-05

Analyzed By: MN

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		1	mg/L	60.0	55.9	93	80 - 120	2012-01-05
2-Methylnaphthalene		1	mg/L	60.0	55.4	92	80 - 120	2012-01-05
1-Methylnaphthalene			mg/L	60.0	55.7	93	80 - 120	2012-01-05
Acenaphthylene		1	mg/L	60.0	55.5	92	80 - 120	2012-01-05
Acenaphthene		1	mg/L	60.0	56.2	94	80 - 120	2012-01-05
Dibenzofuran		1	mg/L	60.0	54.2	90	80 - 120	2012-01-05
Fluorene		1	mg/L	60.0	52.7	88	80 - 120	2012-01-05
Anthracene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Phenanthrene			mg/L	60.0	54.0	90	80 - 120	2012-01-05
Fluoranthene			mg/L	60.0	59.4	99	80 - 120	2012-01-05
Pyrene		1	mg/L	60.0	55.2	92	80 - 120	2012-01-05
Benzo(a)anthracene			mg/L	60.0	58.8	98	80 - 120	2012-01-05
Chrysene		1	mg/L	60.0	56.0	93	80 - 120	2012-01-05
Benzo(b)fluoranthene			mg/L	60.0	48.6	81	80 - 120	2012-01-05
Benzo(k)fluoranthene		1	mg/L	60.0	52.6	88	80 - 120	2012-01-05
Benzo(a)pyrene		1	mg/L	60.0	50.7	84	80 - 120	2012-01-05
Indeno(1,2,3-cd)pyrene		1	mg/L	60.0	53.3	89	80 - 120	2012-01-05
Dibenzo(a,h)anthracene		1	mg/L	60.0	53.8	90	80 - 120	2012-01-05
Benzo(g,h,i)perylene			mg/L	60.0	52.7	88	80 - 120	2012-01-05

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
Nitrobenzene-d5			55.8	mg/L	1	60.0	93	-
2-Fluorobiphenyl			57.5	mg/L	1	60.0	96	-
Terphenyl-d14			55.7	mg/L	1	60.0	93	-

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-11-5	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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

Summary Report

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

Report Date: March 13, 2012

Work Order: 12030216



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
290380	MW 56	water	2012-03-01	13:26	2012-03-02
290381	MW 6	water	2012-03-01	13:42	2012-03-02
290382	MW 33	water	2012-03-01	13:49	2012-03-02
290383	MW 15	water	2012-03-01	13:57	2012-03-02
290384	MW 10	water	2012-03-01	14:03	2012-03-02
290385	MW 7	water	2012-03-01	14:15	2012-03-02
290386	MW 32	water	2012-03-01	14:25	2012-03-02
290387	MW 37	water	2012-03-01	14:32	2012-03-02
290388	MW 8	water	2012-03-01	14:43	2012-03-02
290389	MW 28	water	2012-03-01	14:49	2012-03-02
290390	MW 3	water	2012-03-01	15:00	2012-03-02
290391	MW 23	water	2012-03-01	15:04	2012-03-02
290392	MW 16	water	2012-03-01	15:20	2012-03-02
290393	MW 4	water	2012-03-01	15:28	2012-03-02
290394	MW 31	water	2012-03-01	15:32	2012-03-02
290395	MW 1	water	2012-03-01	15:40	2012-03-02
290396	MW 2	water	2012-03-01	15:46	2012-03-02
290397	MW 38	water	2012-03-01	16:00	2012-03-02
290398	MW 13	water	2012-03-01	16:15	2012-03-02
290399	MW 5	water	2012-03-01	16:25	2012-03-02

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
290380 - MW 56	<0.00100	<0.00100	<0.00100	<0.00100
290381 - MW 6	<0.00100	<0.00100	<0.00100	<0.00100
290382 - MW 33	<0.00100	<0.00100	<0.00100	<0.00100
290383 - MW 15	<0.00100	<0.00100	<0.00100	<0.00100
290384 - MW 10	<0.00100	<0.00100	<0.00100	<0.00100

continued ...

... continued

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
290385 - MW 7	<0.00100	<0.00100	<0.00100	<0.00100
290386 - MW 32	<0.00100	<0.00100	<0.00100	<0.00100
290387 - MW 37	<0.00100	<0.00100	<0.00100	<0.00100
290388 - MW 8	<0.00100	<0.00100	<0.00100	<0.00100
290389 - MW 28	<0.00100	<0.00100	<0.00100	<0.00100
290390 - MW 3	<0.00100	<0.00100	<0.00100	<0.00100
290391 - MW 23	<0.00100	<0.00100	<0.00100	<0.00100
290392 - MW 16	0.00770	<0.00100	<0.00100	<0.00100
290393 - MW 4	<0.00100	<0.00100	<0.00100	<0.00100
290394 - MW 31	0.00730	<0.00100	<0.00100	<0.00100
290395 - MW 1	0.0146 _{Qr,Qs}	<0.00100 _{Qr,Qs}	0.00870 _{Qr,Qs}	0.0234 _{Qr,Qs}
290396 - MW 2	0.0107 _{Qr,Qs}	<0.00100 _{Qr,Qs}	<0.00100 _{Qr,Qs}	<0.00100 _{Qr,Qs}
290397 - MW 38	<0.00100	<0.00100	<0.00100	<0.00100
290398 - MW 13	0.0120 _{Qr,Qs}	<0.00100 _{Qr,Qs}	<0.00100 _{Qr,Qs}	<0.00100 _{Qr,Qs}
290399 - MW 5	0.0227	<0.00100	<0.00100	<0.00100



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200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 13, 2012

Work Order: 12030216



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

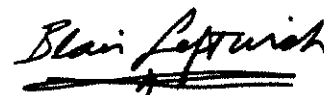
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
290380	MW 56	water	2012-03-01	13:26	2012-03-02
290381	MW 6	water	2012-03-01	13:42	2012-03-02
290382	MW 33	water	2012-03-01	13:49	2012-03-02
290383	MW 15	water	2012-03-01	13:57	2012-03-02
290384	MW 10	water	2012-03-01	14:03	2012-03-02
290385	MW 7	water	2012-03-01	14:15	2012-03-02
290386	MW 32	water	2012-03-01	14:25	2012-03-02
290387	MW 37	water	2012-03-01	14:32	2012-03-02
290388	MW 8	water	2012-03-01	14:43	2012-03-02
290389	MW 28	water	2012-03-01	14:49	2012-03-02
290390	MW 3	water	2012-03-01	15:00	2012-03-02
290391	MW 23	water	2012-03-01	15:04	2012-03-02
290392	MW 16	water	2012-03-01	15:20	2012-03-02
290393	MW 4	water	2012-03-01	15:28	2012-03-02
290394	MW 31	water	2012-03-01	15:32	2012-03-02
290395	MW 1	water	2012-03-01	15:40	2012-03-02
290396	MW 2	water	2012-03-01	15:46	2012-03-02
290397	MW 38	water	2012-03-01	16:00	2012-03-02

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
290398	MW 13	water	2012-03-01	16:15	2012-03-02
290399	MW 5	water	2012-03-01	16:25	2012-03-02

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 28 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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2012-03-02 and assigned to work order 12030216. Samples for work order 12030216 were received intact without headspace and at a temperature of 5.3 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	75731	2012-03-07 at 10:54	89199	2012-03-07 at 12:06
BTEX	S 8021B	75760	2012-03-08 at 09:08	89240	2012-03-08 at 09:23
BTEX	S 8021B	75795	2012-03-09 at 09:09	89278	2012-03-09 at 09:25
BTEX	S 8021B	75806	2012-03-11 at 17:00	89295	2012-03-11 at 18:05

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 12030216 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.

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 6 of 28
Monument, Lea County, NM

Analytical Report

Sample: 290380 - MW 56

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹ Q _{sr}	Q _{sr}	0.0362	mg/L	1	0.100	36	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	² Q _{sr}	Q _{sr}	0.0250	mg/L	1	0.100	25	51.1 - 122.9

Sample: 290381 - MW 6

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	³ Q _{sr}	Q _{sr}	0.0654	mg/L	1	0.100	65	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	⁴ Q _{sr}	Q _{sr}	0.0492	mg/L	1	0.100	49	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

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Monument, Lea County, NM

Sample: 290382 - MW 33

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁵ Qsr	Qsr	0.0511	mg/L	1	0.100	51	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	⁶ Qsr	Qsr	0.0348	mg/L	1	0.100	35	51.1 - 122.9

Sample: 290383 - MW 15

Laboratory: Midland

Analysis: BTEX

QC Batch: 89199

Prep Batch: 75731

Analytical Method: S 8021B

Date Analyzed: 2012-03-07

Sample Preparation: 2012-03-07

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	0.0698	mg/L	1	0.100	70	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0564	mg/L	1	0.100	56	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

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Monument, Lea County, NM

Sample: 290384 - MW 10

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0753	mg/L	1	0.100	75	51.1 - 122.9

Sample: 290385 - MW 7

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁷ Qsr	Qsr	0.0431	mg/L	1	0.100	43	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	⁸ Qsr	Qsr	0.0356	mg/L	1	0.100	36	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 9 of 28
Monument, Lea County, NM

Sample: 290386 - MW 32

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0795	mg/L	1	0.100	80	51.1 - 122.9

Sample: 290387 - MW 37

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	⁹ Qsr	Qsr	0.0421	mg/L	1	0.100	42	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	¹⁰ Qsr	Qsr	0.0309	mg/L	1	0.100	31	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 10 of 28
Monument, Lea County, NM

Sample: 290388 - MW 8

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL		Units	Dilution	RL
			Result				
Benzene	U	1	<0.00100		mg/L	1	0.00100
Toluene	U	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100		mg/L	1	0.00100
Xylene	U	1	<0.00100		mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	11	Qsr	Qsr	0.0603	mg/L	1	0.100	60	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	12	Qsr	Qsr	0.0464	mg/L	1	0.100	46	51.1 - 122.9

Sample: 290389 - MW 28

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL		Units	Dilution	RL
			Result				
Benzene	U	1	<0.00100		mg/L	1	0.00100
Toluene	U	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100		mg/L	1	0.00100
Xylene	U	1	<0.00100		mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	13	Qsr	Qsr	0.0446	mg/L	1	0.100	45	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	14	Qsr	Qsr	0.0298	mg/L	1	0.100	30	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

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Monument, Lea County, NM

Sample: 290390 - MW 3

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL		Units	Dilution	RL
			Result				
Benzene	u	1	<0.00100		mg/L	1	0.00100
Toluene	u	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100		mg/L	1	0.00100
Xylene	u	1	<0.00100		mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹⁵	Q _{sr}	Q _{sr}	0.0486	mg/L	1	0.100	49	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	¹⁶	Q _{sr}	Q _{sr}	0.0329	mg/L	1	0.100	33	51.1 - 122.9

Sample: 290391 - MW 23

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL		Units	Dilution	RL
			Result				
Benzene	u	1	<0.00100		mg/L	1	0.00100
Toluene	u	1	<0.00100		mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100		mg/L	1	0.00100
Xylene	u	1	<0.00100		mg/L	1	0.00100

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹⁷	Q _{sr}	Q _{sr}	0.0497	mg/L	1	0.100	50	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	¹⁸	Q _{sr}	Q _{sr}	0.0348	mg/L	1	0.100	35	51.1 - 122.9

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

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Monument, Lea County, NM

Sample: 290392 - MW 16

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00770	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0870	mg/L	1	0.100	87	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0796	mg/L	1	0.100	80	51.1 - 122.9

Sample: 290393 - MW 4

Laboratory: Midland
Analysis: BTEX
QC Batch: 89240
Prep Batch: 75760

Analytical Method: S 8021B
Date Analyzed: 2012-03-08
Sample Preparation: 2012-03-08

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	¹⁹ Q _{sr}	Q _{sr}	0.0578	mg/L	1	0.100	58	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)	²⁰ Q _{sr}	Q _{sr}	0.0477	mg/L	1	0.100	48	51.1 - 122.9

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Sample: 290394 - MW 31

Laboratory: Midland

Analysis: BTEX

QC Batch: 89240

Prep Batch: 75760

Analytical Method: S 8021B

Date Analyzed: 2012-03-08

Sample Preparation: 2012-03-08

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00730	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0816	mg/L	1	0.100	82	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0619	mg/L	1	0.100	62	51.1 - 122.9

Sample: 290395 - MW 1

Laboratory: Midland

Analysis: BTEX

QC Batch: 89278

Prep Batch: 75795

Analytical Method: S 8021B

Date Analyzed: 2012-03-09

Sample Preparation: 2012-03-09

Prep Method: S 5030B

Analyzed By: tc

Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr, Qs	1	0.0146	mg/L	1	0.00100
Toluene	Qr, Qs, U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr, Qs	1	0.00870	mg/L	1	0.00100
Xylene	Qr, Qs	1	0.0234	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	0.0678	mg/L	1	0.100	68	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0691	mg/L	1	0.100	69	51.1 - 122.9

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Sample: 290396 - MW 2

Laboratory: Midland
Analysis: BTEX
QC Batch: 89278
Prep Batch: 75795

Analytical Method: S 8021B
Date Analyzed: 2012-03-09
Sample Preparation: 2012-03-09

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,Qs	1	0.0107	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.101	mg/L	1	0.100	101	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.112	mg/L	1	0.100	112	51.1 - 122.9

Sample: 290397 - MW 38

Laboratory: Midland
Analysis: BTEX
QC Batch: 89295
Prep Batch: 75806

Analytical Method: S 8021B
Date Analyzed: 2012-03-11
Sample Preparation: 2012-03-11

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.118	mg/L	1	0.100	118	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0893	mg/L	1	0.100	89	51.1 - 122.9

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Sample: 290398 - MW 13

Laboratory: Midland
Analysis: BTEX
QC Batch: 89278
Prep Batch: 75795

Analytical Method: S 8021B
Date Analyzed: 2012-03-09
Sample Preparation: 2012-03-09

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,Qs	1	0.0120	mg/L	1	0.00100
Toluene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100
Xylene	Qr,Qs,U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	0.0352	mg/L	1	0.100	35	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.0533	mg/L	1	0.100	53	51.1 - 122.9

Sample: 290399 - MW 5

Laboratory: Midland
Analysis: BTEX
QC Batch: 89295
Prep Batch: 75806

Analytical Method: S 8021B
Date Analyzed: 2012-03-11
Sample Preparation: 2012-03-11

Prep Method: S 5030B
Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.0227	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.112	mg/L	1	0.100	112	73.5 - 123.1
4-Bromofluorobenzene (4-BFB)			0.101	mg/L	1	0.100	101	51.1 - 122.9

Method Blanks

Method Blank (1) QC Batch: 89199

QC Batch: 89199
Prep Batch: 75731

Date Analyzed: 2012-03-07
QC Preparation: 2012-03-07

Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.109	mg/L	1	0.100	109	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0888	mg/L	1	0.100	89	54.3 - 124.6

Method Blank (1) QC Batch: 89240

QC Batch: 89240
Prep Batch: 75760

Date Analyzed: 2012-03-08
QC Preparation: 2012-03-08

Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.100	mg/L	1	0.100	100	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0739	mg/L	1	0.100	74	54.3 - 124.6

Method Blank (1) QC Batch: 89278

QC Batch: 89278
Prep Batch: 75795

Date Analyzed: 2012-03-09
QC Preparation: 2012-03-09

Analyzed By: tc
Prepared By: tc

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Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.106	mg/L	1	0.100	106	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0688	mg/L	1	0.100	69	54.3 - 124.6

Method Blank (1) QC Batch: 89295

QC Batch: 89295
Prep Batch: 75806

Date Analyzed: 2012-03-11
QC Preparation: 2012-03-11

Analyzed By: tc
Prepared By: tc

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000600	mg/L	0.001
Toluene		1	<0.000400	mg/L	0.001
Ethylbenzene		1	<0.000600	mg/L	0.001
Xylene		1	<0.00130	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.119	mg/L	1	0.100	119	74.2 - 126
4-Bromofluorobenzene (4-BFB)			0.0981	mg/L	1	0.100	98	54.3 - 124.6

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 89199
Prep Batch: 75731

Date Analyzed: 2012-03-07
QC Preparation: 2012-03-07

Analyzed By: tc
Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.102	mg/L	1	0.100	<0.000600	102	79.7 - 117.6
Toluene		1	0.103	mg/L	1	0.100	<0.000400	103	73.9 - 123.9
Ethylbenzene		1	0.100	mg/L	1	0.100	<0.000600	100	76.8 - 120.8
Xylene		1	0.301	mg/L	1	0.300	<0.00130	100	76.2 - 120.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0988	mg/L	1	0.100	<0.000600	99	79.7 - 117.6	3	20
Toluene		1	0.0993	mg/L	1	0.100	<0.000400	99	73.9 - 123.9	4	20
Ethylbenzene		1	0.0975	mg/L	1	0.100	<0.000600	98	76.8 - 120.8	2	20
Xylene		1	0.293	mg/L	1	0.300	<0.00130	98	76.2 - 120.5	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)	0.103	0.112	mg/L	1	0.100	103	112	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.108	0.113	mg/L	1	0.100	108	113	69.4 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 89240
Prep Batch: 75760

Date Analyzed: 2012-03-08
QC Preparation: 2012-03-08

Analyzed By: tc
Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0983	mg/L	1	0.100	<0.000600	98	79.7 - 117.6
Toluene		1	0.0972	mg/L	1	0.100	<0.000400	97	73.9 - 123.9
Ethylbenzene		1	0.0940	mg/L	1	0.100	<0.000600	94	76.8 - 120.8
Xylene		1	0.282	mg/L	1	0.300	<0.00130	94	76.2 - 120.5

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0956	mg/L	1	0.100	<0.000600	96	79.7 - 117.6	3	20
Toluene		1	0.0953	mg/L	1	0.100	<0.000400	95	73.9 - 123.9	2	20
Ethylbenzene		1	0.0926	mg/L	1	0.100	<0.000600	93	76.8 - 120.8	2	20
Xylene		1	0.276	mg/L	1	0.300	<0.00130	92	76.2 - 120.5	2	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0973	0.0981	mg/L	1	0.100	97	98	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.0937	0.0944	mg/L	1	0.100	94	94	69.4 - 124

Laboratory Control Spike (LCS-1)

QC Batch: 89278
Prep Batch: 75795

Date Analyzed: 2012-03-09
QC Preparation: 2012-03-09

Analyzed By: tc
Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0934	mg/L	1	0.100	<0.000600	93	79.7 - 117.6
Toluene		1	0.0944	mg/L	1	0.100	<0.000400	94	73.9 - 123.9
Ethylbenzene		1	0.0928	mg/L	1	0.100	<0.000600	93	76.8 - 120.8
Xylene		1	0.277	mg/L	1	0.300	<0.00130	92	76.2 - 120.5

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0948	mg/L	1	0.100	<0.000600	95	79.7 - 117.6	2	20
Toluene		1	0.0953	mg/L	1	0.100	<0.000400	95	73.9 - 123.9	1	20
Ethylbenzene		1	0.0934	mg/L	1	0.100	<0.000600	93	76.8 - 120.8	1	20
Xylene		1	0.280	mg/L	1	0.300	<0.00130	93	76.2 - 120.5	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.103	0.112	mg/L	1	0.100	103	112	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.0958	0.104	mg/L	1	0.100	96	104	69.4 - 124

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Laboratory Control Spike (LCS-1)

QC Batch: 89295
Prep Batch: 75806

Date Analyzed: 2012-03-11
QC Preparation: 2012-03-11

Analyzed By: tc
Prepared By: tc

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0939	mg/L	1	0.100	<0.000600	94	79.7 - 117.6
Toluene		1	0.0995	mg/L	1	0.100	<0.000400	100	73.9 - 123.9
Ethylbenzene		1	0.0974	mg/L	1	0.100	<0.000600	97	76.8 - 120.8
Xylene		1	0.294	mg/L	1	0.300	<0.00130	98	76.2 - 120.5

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0895	mg/L	1	0.100	<0.000600	90	79.7 - 117.6	5	20
Toluene		1	0.0957	mg/L	1	0.100	<0.000400	96	73.9 - 123.9	4	20
Ethylbenzene		1	0.0960	mg/L	1	0.100	<0.000600	96	76.8 - 120.8	1	20
Xylene		1	0.282	mg/L	1	0.300	<0.00130	94	76.2 - 120.5	4	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)	0.112	0.110	mg/L	1	0.100	112	110	72.5 - 117
4-Bromofluorobenzene (4-BFB)	0.110	0.106	mg/L	1	0.100	110	106	69.4 - 124

Matrix Spike (MS-1) Spiked Sample: 290206

QC Batch: 89199
Prep Batch: 75731

Date Analyzed: 2012-03-07
QC Preparation: 2012-03-07

Analyzed By: tc
Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.94	mg/L	10	1.00	0.9982	94	86.6 - 130.3
Toluene		1	0.957	mg/L	10	1.00	<0.00400	96	82.2 - 120.1
Ethylbenzene		1	0.951	mg/L	10	1.00	<0.00600	95	66.8 - 119.2
Xylene		1	2.78	mg/L	10	3.00	<0.0130	93	66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.92	mg/L	10	1.00	0.9982	92	86.6 - 130.3	1	20
Toluene		1	0.963	mg/L	10	1.00	<0.00400	96	82.2 - 120.1	1	20

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matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		1	0.961	mg/L	10	1.00	<0.00600	96	66.8 - 119.2	1	20
Xylene		1	2.83	mg/L	10	3.00	<0.0130	94	66.5 - 118.4	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)	0.898	0.971	mg/L	10	1	90	97	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	0.930	1.04	mg/L	10	1	93	104	64.8 - 125.7

Matrix Spike (MS-1) Spiked Sample: 290478

QC Batch: 89240
Prep Batch: 75760

Date Analyzed: 2012-03-08
QC Preparation: 2012-03-08

Analyzed By: tc
Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.464	mg/L	5	0.500	<0.00300	93	86.6 - 130.3
Toluene		1	0.463	mg/L	5	0.500	<0.00200	93	82.2 - 120.1
Ethylbenzene		1	0.435	mg/L	5	0.500	<0.00300	87	66.8 - 119.2
Xylene		1	1.30	mg/L	5	1.50	<0.00650	87	66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.485	mg/L	5	0.500	<0.00300	97	86.6 - 130.3	4	20
Toluene		1	0.474	mg/L	5	0.500	<0.00200	95	82.2 - 120.1	2	20
Ethylbenzene		1	0.444	mg/L	5	0.500	<0.00300	89	66.8 - 119.2	2	20
Xylene		1	1.34	mg/L	5	1.50	<0.00650	89	66.5 - 118.4	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.501	0.474	mg/L	5	0.5	100	95	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	0.474	0.435	mg/L	5	0.5	95	87	64.8 - 125.7

Matrix Spike (MS-1) Spiked Sample: 290479

QC Batch: 89278
Prep Batch: 75795

Date Analyzed: 2012-03-09
QC Preparation: 2012-03-09

Analyzed By: tc
Prepared By: tc

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	Qs	Qs	1	0.220	mg/L	5	0.500	<0.00300	44 86.6 - 130.3
Toluene	Qs	Qs	1	0.217	mg/L	5	0.500	<0.00200	43 82.2 - 120.1
Ethylbenzene	Qs	Qs	1	0.209	mg/L	5	0.500	<0.00300	42 66.8 - 119.2
Xylene	Qs	Qs	1	0.620	mg/L	5	1.50	<0.00650	41 66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	Qr, Qs	Qr, Qs	1	0.410	mg/L	5	0.500	<0.00300	82 86.6 - 130.3	60	20
Toluene	Qr	Qr	1	0.422	mg/L	5	0.500	<0.00200	84 82.2 - 120.1	64	20
Ethylbenzene	Qr	Qr	1	0.422	mg/L	5	0.500	<0.00300	84 66.8 - 119.2	68	20
Xylene	Qr	Qr	1	1.26	mg/L	5	1.50	<0.00650	84 66.5 - 118.4	68	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)	Qsr	Qsr	0.156	0.437	mg/L	5	0.5	31	87	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)	22 Qsr	Qsr	0.159	0.422	mg/L	5	0.5	32	84	64.8 - 125.7

Matrix Spike (MS-1) Spiked Sample: 290662

QC Batch: 89295
Prep Batch: 75806

Date Analyzed: 2012-03-11
QC Preparation: 2012-03-11

Analyzed By: tc
Prepared By: tc

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.467	mg/L	5	0.500	<0.00300	93	86.6 - 130.3
Toluene		1	0.486	mg/L	5	0.500	<0.00200	97	82.2 - 120.1
Ethylbenzene		1	0.485	mg/L	5	0.500	<0.00300	97	66.8 - 119.2
Xylene		1	1.44	mg/L	5	1.50	<0.00650	96	66.5 - 118.4

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.470	mg/L	5	0.500	<0.00300	94	86.6 - 130.3	1	20
Toluene		1	0.489	mg/L	5	0.500	<0.00200	98	82.2 - 120.1	1	20
Ethylbenzene		1	0.484	mg/L	5	0.500	<0.00300	97	66.8 - 119.2	0	20
Xylene		1	1.43	mg/L	5	1.50	<0.00650	95	66.5 - 118.4	1	20

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

continued ...

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 23 of 28
Monument, Lea County, NM

matrix spikes continued ...

Surrogate				MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate				MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	Qsr	Qsr		0.586	0.580	mg/L	5	0.5	117	116	73.2 - 116.6
4-Bromofluorobenzene (4-BFB)				0.544	0.529	mg/L	5	0.5	109	106	64.8 - 125.7

Calibration Standards

Standard (CCV-1)

QC Batch: 89199

Date Analyzed: 2012-03-07

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0971	97	80 - 120	2012-03-07
Toluene		1	mg/L	0.100	0.0974	97	80 - 120	2012-03-07
Ethylbenzene		1	mg/L	0.100	0.0932	93	80 - 120	2012-03-07
Xylene		1	mg/L	0.300	0.283	94	80 - 120	2012-03-07

Standard (CCV-2)

QC Batch: 89199

Date Analyzed: 2012-03-07

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0964	96	80 - 120	2012-03-07
Toluene		1	mg/L	0.100	0.0947	95	80 - 120	2012-03-07
Ethylbenzene		1	mg/L	0.100	0.0909	91	80 - 120	2012-03-07
Xylene		1	mg/L	0.300	0.273	91	80 - 120	2012-03-07

Standard (CCV-1)

QC Batch: 89240

Date Analyzed: 2012-03-08

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0958	96	80 - 120	2012-03-08
Toluene		1	mg/L	0.100	0.0937	94	80 - 120	2012-03-08
Ethylbenzene		1	mg/L	0.100	0.0899	90	80 - 120	2012-03-08
Xylene		1	mg/L	0.300	0.269	90	80 - 120	2012-03-08

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 25 of 28
Monument, Lea County, NM

Standard (CCV-2)

QC Batch: 89240

Date Analyzed: 2012-03-08

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0983	98	80 - 120	2012-03-08
Toluene		1	mg/L	0.100	0.0970	97	80 - 120	2012-03-08
Ethylbenzene		1	mg/L	0.100	0.0940	94	80 - 120	2012-03-08
Xylene		1	mg/L	0.300	0.279	93	80 - 120	2012-03-08

Standard (CCV-3)

QC Batch: 89240

Date Analyzed: 2012-03-08

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0981	98	80 - 120	2012-03-08
Toluene		1	mg/L	0.100	0.0967	97	80 - 120	2012-03-08
Ethylbenzene		1	mg/L	0.100	0.0916	92	80 - 120	2012-03-08
Xylene		1	mg/L	0.300	0.276	92	80 - 120	2012-03-08

Standard (CCV-1)

QC Batch: 89278

Date Analyzed: 2012-03-09

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0937	94	80 - 120	2012-03-09
Toluene		1	mg/L	0.100	0.0923	92	80 - 120	2012-03-09
Ethylbenzene		1	mg/L	0.100	0.0904	90	80 - 120	2012-03-09
Xylene		1	mg/L	0.300	0.268	89	80 - 120	2012-03-09

Standard (CCV-2)

QC Batch: 89278

Date Analyzed: 2012-03-09

Analyzed By: tc

Report Date: March 13, 2012
TNM-LF-2000-07

Work Order: 12030216
Bob Durham

Page Number: 26 of 28
Monument, Lea County, NM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0923	92	80 - 120	2012-03-09
Toluene		1	mg/L	0.100	0.0958	96	80 - 120	2012-03-09
Ethylbenzene		1	mg/L	0.100	0.0965	96	80 - 120	2012-03-09
Xylene		1	mg/L	0.300	0.290	97	80 - 120	2012-03-09

Standard (CCV-1)

QC Batch: 89295

Date Analyzed: 2012-03-11

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0810	81	80 - 120	2012-03-11
Toluene		1	mg/L	0.100	0.0838	84	80 - 120	2012-03-11
Ethylbenzene		1	mg/L	0.100	0.0851	85	80 - 120	2012-03-11
Xylene		1	mg/L	0.300	0.258	86	80 - 120	2012-03-11

Standard (CCV-2)

QC Batch: 89295

Date Analyzed: 2012-03-11

Analyzed By: tc

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0933	93	80 - 120	2012-03-11
Toluene		1	mg/L	0.100	0.0961	96	80 - 120	2012-03-11
Ethylbenzene		1	mg/L	0.100	0.0946	95	80 - 120	2012-03-11
Xylene		1	mg/L	0.300	0.281	94	80 - 120	2012-03-11

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-11-3	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

- 1 Matrix Effect.
- 2 Matrix Effect.
- 3 Matrix Effect.
- 4 Matrix Effect.
- 5 Matrix Effect.

- 6 Matrix Effect.
- 7 Matrix Effect.
- 8 Matrix Effect.
- 9 Matrix Effect.
- 10 Matrix Effect.
- 11 Matrix Effect.
- 12 Matrix Effect.
- 13 Matrix Effect.
- 14 Matrix Effect.
- 15 Matrix Effect.
- 16 Matrix Effect.
- 17 Matrix Effect.
- 18 Matrix Effect.
- 19 Matrix Effect.
- 20 Matrix Effect.
- 21 Dilution due to surfactants.
- 22 Dilution due to Surfactants.

Attachments

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

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
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1 (800) 378-1296

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

BioAqualic Testing
2501 Mayes Rd., Ste. 100
Carrollton, Texas 75006
Tel (972) 242-7750
1 (888) 586-3443

Company Name:

Novo Safety and Environmental
Address: (Street, City, Zip)

Phone #:

432-520-7722
Fax #:

Contact Person:

2057 Commerce
Kara Ransaville

E-mail:

Invoice to:

(If different from above)

Project #:

71M LF 2000-07

Project Name:

Bob Durham

Project Location (including state):

Monmouth, N.M.

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	H ₂ SO ₄	NaOH	ICE	DATE	TIME
38030	MW56	3	VDA X	X				X			X	3/1/12	1326
381	MW6												1342
382	MW33												1349
383	MW15												1357
384	MW10												1403
385	MW7												1415
386	MW32												1425
387	MW37												1432
388	MW8												1443
389	MW28												1449
390	MW3												1500

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:
<i>[Signature]</i>		3/2/12	08:22	<i>[Signature]</i>	TA	3/2/12	08:22	OBS:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	COR:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST:
								OBS:
								COR:

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ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021 / 602 / 8260 / 624	X
BTX	8021 / 602 / 8260 / 624	
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, F, S ₀₄ , NO ₃ , NO ₂ , Alkalinity		
Na, Ca, Mg, K, TDS, EC		
Turn Around Time if different from standard		

REMARKS:

LAB USE ONLY

all tests Metad

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

ORIGINAL COPY

Carrier # *[Signature]*

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

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

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750
1 (888) 588-3443

Company Name: <i>Nova Safety and Environmental</i>		Phone #: <i>432-520-7320</i>						
Address: <i>2057 Commerce Drive</i>		Fax #:						
Contact Person: <i>Ron Rounsaville</i>		E-mail:						
Invoice to: (If different from above)								
Project #: <i>TNM LF 2007-07</i>		Project Name: <i>Bob Darchan</i>						
Project Location (including state): <i>Monterey, N.M.</i>		Sampler Signature: <i>Carl W...</i>						
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD	DATE	TIME	Turn Around Time if different from standard
391	MW23	3	VOA	WATER	HCl	3/1/12	1504	
392	MW14				NaOH		1520	
393	MW4				H ₂ SO ₄		1528	
394	MW31				HNO ₃		1532	
395	MW1						1540	
396	MW2						1544	
397	MW38						1600	
398	MW13						1615	
399	MW5						1625	

ANALYSIS REQUEST
(Circle or Specify Method No.)

☐	GC/MS Vol. 8260 / 624
☐	GC/MS Semi. Vol. 8270 / 625
☐	PCBs 8082 / 608
☐	Pesticides 8081 / 608
☐	BOD, TSS, pH
☐	Moisture Content
☐	Cl, F, S04, NO3, NO2, Alkalinity
☐	Na, Ca, Mg, K, TDS, EC

LAB USE ONLY

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
<i>Long...</i>		3/2/12	08:22	<i>Carl W...</i>		3/2/12	822
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

REMARKS:

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

Carrier # *...*

Summary Report

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

Report Date: June 11, 2012

Work Order: 12060102



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
299617	MW-24	water	2012-05-31	14:20	2012-06-01
299618	MW-27	water	2012-05-31	14:55	2012-06-01
299619	MW-31	water	2012-05-31	11:50	2012-06-01
299620	MW-33	water	2012-05-31	11:20	2012-06-01
299621	MW-56	water	2012-05-31	11:30	2012-06-01
299622	MW-15	water	2012-05-31	11:15	2012-06-01
299623	MW-10	water	2012-05-31	10:50	2012-06-01
299624	MW-7	water	2012-05-31	13:30	2012-06-01
299625	MW-32	water	2012-05-31	11:20	2012-06-01
299626	MW-37	water	2012-05-31	11:30	2012-06-01
299627	MW-8	water	2012-05-31	13:00	2012-06-01
299628	MW-28	water	2012-05-31	12:10	2012-06-01
299629	MW-3	water	2012-05-31	13:40	2012-06-01
299630	MW-23	water	2012-05-31	14:10	2012-06-01
299631	MW-16	water	2012-05-31	13:30	2012-06-01
299632	MW-4	water	2012-05-31	14:10	2012-06-01
299633	MW-6	water	2012-05-31	13:00	2012-06-01
299634	MW-38	water	2012-05-31	11:50	2012-06-01
299635	MW-2	water	2012-05-31	12:50	2012-06-01
299636	MW-13	water	2012-05-31	10:50	2012-06-01
299637	MW-1	water	2012-05-31	12:50	2012-06-01
299638	MW-5	water	2012-05-31	13:40	2012-06-01

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
299617 - MW-24	<0.00100	<0.00100	<0.00100	<0.00100
299618 - MW-27	<0.00100	<0.00100	<0.00100	<0.00100
299619 - MW-31	<0.00100	<0.00100	<0.00100	<0.00100

continued ...

... continued

Sample - Field Code	BTEX			
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
299620 - MW-33	<0.00100	<0.00100	<0.00100	<0.00100
299621 - MW-56	<0.00100	<0.00100	<0.00100	<0.00100
299622 - MW-15	<0.00100	<0.00100	<0.00100	<0.00100
299623 - MW-10	<0.00100	<0.00100	<0.00100	<0.00100
299624 - MW-7	<0.00100	<0.00100	<0.00100	<0.00100
299625 - MW-32	<0.00100	<0.00100	<0.00100	<0.00100
299626 - MW-37	<0.00100	<0.00100	<0.00100	<0.00100
299627 - MW-8	<0.00100	<0.00100	<0.00100	<0.00100
299628 - MW-28	<0.00100	<0.00100	<0.00100	<0.00100
299629 - MW-3	<0.00100	<0.00100	<0.00100	<0.00100
299630 - MW-23	<0.00100	<0.00100	<0.00100	<0.00100
299631 - MW-16	0.00360	<0.00100	0.00120	<0.00100
299632 - MW-4	<0.00100	<0.00100	<0.00100	0.00100
299633 - MW-6	<0.00100	<0.00100	<0.00100	<0.00100
299634 - MW-38	<0.00100	<0.00100	<0.00100	<0.00100
299635 - MW-2	<0.00100	<0.00100	<0.00100	0.00140
299636 - MW-13	<0.00100	<0.00100	<0.00100	<0.00100
299637 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100
299638 - MW-5	<0.00100	<0.00100	0.00110	0.00170



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972-242-7750

FAX 806-794-1298

FAX 915-585-4944

FAX 432-689-6313

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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: June 11, 2012

Work Order: 12060102



Project Location: Monument, Lea County, NM
Project Name: Bob Durham
Project Number: TNM-LF-2000-07

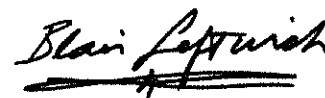
Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
299617	MW-24	water	2012-05-31	14:20	2012-06-01
299618	MW-27	water	2012-05-31	14:55	2012-06-01
299619	MW-31	water	2012-05-31	11:50	2012-06-01
299620	MW-33	water	2012-05-31	11:20	2012-06-01
299621	MW-56	water	2012-05-31	11:30	2012-06-01
299622	MW-15	water	2012-05-31	11:15	2012-06-01
299623	MW-10	water	2012-05-31	10:50	2012-06-01
299624	MW-7	water	2012-05-31	13:30	2012-06-01
299625	MW-32	water	2012-05-31	11:20	2012-06-01
299626	MW-37	water	2012-05-31	11:30	2012-06-01
299627	MW-8	water	2012-05-31	13:00	2012-06-01
299628	MW-28	water	2012-05-31	12:10	2012-06-01
299629	MW-3	water	2012-05-31	13:40	2012-06-01
299630	MW-23	water	2012-05-31	14:10	2012-06-01
299631	MW-16	water	2012-05-31	13:30	2012-06-01
299632	MW-4	water	2012-05-31	14:10	2012-06-01
299633	MW-6	water	2012-05-31	13:00	2012-06-01
299634	MW-38	water	2012-05-31	11:50	2012-06-01

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
299635	MW-2	water	2012-05-31	12:50	2012-06-01
299636	MW-13	water	2012-05-31	10:50	2012-06-01
299637	MW-1	water	2012-05-31	12:50	2012-06-01
299638	MW-5	water	2012-05-31	13:40	2012-06-01

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 26 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

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Case Narrative

Samples for project Bob Durham were received by TraceAnalysis, Inc. on 2012-06-01 and assigned to work order 12060102. Samples for work order 12060102 were received intact without headspace and at a temperature of 8.1 C. Samples were received on ice.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	77955	2012-06-06 at 13:53	91876	2012-06-06 at 13:53
BTEX	S 8021B	77985	2012-06-07 at 15:56	91921	2012-06-07 at 15:56
BTEX	S 8021B	78023	2012-06-08 at 16:11	91967	2012-06-08 at 16:11

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 12060102 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: 299617 - MW-24

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0907	mg/L	1	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0958	mg/L	1	0.100	96	70 - 130

Sample: 299618 - MW-27

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	U	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0903	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0956	mg/L	1	0.100	96	70 - 130

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Sample: 299619 - MW-31

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0897	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0952	mg/L	1	0.100	95	70 - 130

Sample: 299620 - MW-33

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0900	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0949	mg/L	1	0.100	95	70 - 130

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Sample: 299621 - MW-56

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0890	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0949	mg/L	1	0.100	95	70 - 130

Sample: 299622 - MW-15

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 91876
Prep Batch: 77955

Analytical Method: S 8021B
Date Analyzed: 2012-06-06
Sample Preparation: 2012-06-06

Prep Method: S 5030B
Analyzed By: ZLM
Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	jb	1	<0.00100	mg/L	1	0.00100
Xylene	jb	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0904	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0961	mg/L	1	0.100	96	70 - 130

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Sample: 299623 - MW-10

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91876

Prep Batch: 77955

Analytical Method: S 8021B

Date Analyzed: 2012-06-06

Sample Preparation: 2012-06-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0904	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0966	mg/L	1	0.100	97	70 - 130

Sample: 299624 - MW-7

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91967

Prep Batch: 78023

Analytical Method: S 8021B

Date Analyzed: 2012-06-08

Sample Preparation: 2012-06-08

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.104	mg/L	1	0.100	104	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0978	mg/L	1	0.100	98	70 - 130

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Sample: 299625 - MW-32

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91876

Prep Batch: 77955

Analytical Method: S 8021B

Date Analyzed: 2012-06-06

Sample Preparation: 2012-06-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0903	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0962	mg/L	1	0.100	96	70 - 130

Sample: 299626 - MW-37

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91876

Prep Batch: 77955

Analytical Method: S 8021B

Date Analyzed: 2012-06-06

Sample Preparation: 2012-06-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0899	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0961	mg/L	1	0.100	96	70 - 130

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Sample: 299627 - MW-8

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91967

Prep Batch: 78023

Analytical Method: S 8021B

Date Analyzed: 2012-06-08

Sample Preparation: 2012-06-08

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0980	mg/L	1	0.100	98	70 - 130

Sample: 299628 - MW-28

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91876

Prep Batch: 77955

Analytical Method: S 8021B

Date Analyzed: 2012-06-06

Sample Preparation: 2012-06-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0858	mg/L	1	0.100	86	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0913	mg/L	1	0.100	91	70 - 130

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Sample: 299629 - MW-3

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91967

Prep Batch: 78023

Analytical Method: S 8021B

Date Analyzed: 2012-06-08

Sample Preparation: 2012-06-08

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.103	mg/L	1	0.100	103	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0975	mg/L	1	0.100	98	70 - 130

Sample: 299630 - MW-23

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91876

Prep Batch: 77955

Analytical Method: S 8021B

Date Analyzed: 2012-06-06

Sample Preparation: 2012-06-06

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0869	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0929	mg/L	1	0.100	93	70 - 130

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Sample: 299631 - MW-16

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91967

Prep Batch: 78023

Analytical Method: S 8021B

Date Analyzed: 2012-06-08

Sample Preparation: 2012-06-08

Prep Method: S 5030B

Analyzed By: MT

Prepared By: MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	0.00360	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene		1	0.00120	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.108	mg/L	1	0.100	108	70 - 130
4-Bromofluorobenzene (4-BFB)			0.114	mg/L	1	0.100	114	70 - 130

Sample: 299632 - MW-4

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	B	1	0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0890	mg/L	1	0.100	89	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0959	mg/L	1	0.100	96	70 - 130

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Sample: 299633 - MW-6

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	u	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0883	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0946	mg/L	1	0.100	95	70 - 130

Sample: 299634 - MW-38

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	ub	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0881	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0956	mg/L	1	0.100	96	70 - 130

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Sample: 299635 - MW-2

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Jb	1	<0.00100	mg/L	1	0.00100
Xylene	B	1	0.00140	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0934	mg/L	1	0.100	93	70 - 130
4-Bromofluorobenzene (4-BFB)			0.106	mg/L	1	0.100	106	70 - 130

Sample: 299636 - MW-13

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.00100	mg/L	1	0.00100
Toluene	U	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	Jb	1	<0.00100	mg/L	1	0.00100
Xylene	U	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0876	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.111	mg/L	1	0.100	111	70 - 130

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Sample: 299637 - MW-1

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	jb	1	<0.00100	mg/L	1	0.00100
Xylene	u	1	<0.00100	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0866	mg/L	1	0.100	87	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0993	mg/L	1	0.100	99	70 - 130

Sample: 299638 - MW-5

Laboratory: Lubbock

Analysis: BTEX

QC Batch: 91921

Prep Batch: 77985

Analytical Method: S 8021B

Date Analyzed: 2012-06-07

Sample Preparation: 2012-06-07

Prep Method: S 5030B

Analyzed By: ZLM

Prepared By: ZLM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	u	1	<0.00100	mg/L	1	0.00100
Toluene	u	1	<0.00100	mg/L	1	0.00100
Ethylbenzene	B	1	0.00110	mg/L	1	0.00100
Xylene	B	1	0.00170	mg/L	1	0.00100

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0958	mg/L	1	0.100	96	70 - 130
4-Bromofluorobenzene (4-BFB)			0.105	mg/L	1	0.100	105	70 - 130

Method Blanks

Method Blank (1) QC Batch: 91876

QC Batch: 91876 Date Analyzed: 2012-06-06 Analyzed By: ZLM
Prep Batch: 77955 QC Preparation: 2012-06-06 Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000310	mg/L	0.001
Toluene		1	<0.000259	mg/L	0.001
Ethylbenzene		1	0.000300	mg/L	0.001
Xylene		1	0.000900	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0897	mg/L	1	0.100	90	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0958	mg/L	1	0.100	96	70 - 130

Method Blank (1) QC Batch: 91921

QC Batch: 91921 Date Analyzed: 2012-06-07 Analyzed By: ZLM
Prep Batch: 77985 QC Preparation: 2012-06-07 Prepared By: ZLM

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000310	mg/L	0.001
Toluene		1	<0.000259	mg/L	0.001
Ethylbenzene		1	0.000400	mg/L	0.001
Xylene		1	0.00100	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.0878	mg/L	1	0.100	88	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0945	mg/L	1	0.100	94	70 - 130

Method Blank (1) QC Batch: 91967

QC Batch: 91967 Date Analyzed: 2012-06-08 Analyzed By: MT
Prep Batch: 78023 QC Preparation: 2012-06-08 Prepared By: MT

Report Date: June 11, 2012
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Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.000371	mg/L	0.001
Toluene		1	<0.000347	mg/L	0.001
Ethylbenzene		1	<0.000326	mg/L	0.001
Xylene		1	<0.000357	mg/L	0.001

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			0.102	mg/L	1	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)			0.0979	mg/L	1	0.100	98	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 91876
Prep Batch: 77955

Date Analyzed: 2012-06-06
QC Preparation: 2012-06-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0980	mg/L	1	0.100	<0.000310	98	74.2 - 120
Toluene		1	0.100	mg/L	1	0.100	<0.000259	100	75.8 - 120
Ethylbenzene		1	0.0977	mg/L	1	0.100	0.0003	97	71.8 - 120
Xylene		1	0.297	mg/L	1	0.300	0.0009	99	73.8 - 120

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0969	mg/L	1	0.100	<0.000310	97	74.2 - 120	1	20
Toluene		1	0.101	mg/L	1	0.100	<0.000259	101	75.8 - 120	1	20
Ethylbenzene		1	0.0975	mg/L	1	0.100	0.0003	97	71.8 - 120	0	20
Xylene		1	0.296	mg/L	1	0.300	0.0009	98	73.8 - 120	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0928	0.0927	mg/L	1	0.100	93	93	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0991	0.0989	mg/L	1	0.100	99	99	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 91921
Prep Batch: 77985

Date Analyzed: 2012-06-07
QC Preparation: 2012-06-07

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0951	mg/L	1	0.100	<0.000310	95	74.2 - 120
Toluene		1	0.0994	mg/L	1	0.100	<0.000259	99	75.8 - 120
Ethylbenzene		1	0.0967	mg/L	1	0.100	0.0004	96	71.8 - 120
Xylene		1	0.294	mg/L	1	0.300	0.001	98	73.8 - 120

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

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Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0930	mg/L	1	0.100	<0.000310	93	74.2 - 120	2	20
Toluene		1	0.0966	mg/L	1	0.100	<0.000259	97	75.8 - 120	3	20
Ethylbenzene		1	0.0940	mg/L	1	0.100	0.0004	94	71.8 - 120	3	20
Xylene		1	0.286	mg/L	1	0.300	0.001	95	73.8 - 120	3	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0901	0.0893	mg/L	1	0.100	90	89	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0986	0.0970	mg/L	1	0.100	99	97	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 91967
Prep Batch: 78023

Date Analyzed: 2012-06-08
QC Preparation: 2012-06-08

Analyzed By: MT
Prepared By: MT

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0967	mg/L	1	0.100	<0.000371	97	78.6 - 120
Toluene		1	0.0963	mg/L	1	0.100	<0.000347	96	79.6 - 120
Ethylbenzene		1	0.0991	mg/L	1	0.100	<0.000326	99	80 - 120
Xylene		1	0.287	mg/L	1	0.300	<0.000357	96	79.3 - 120

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0960	mg/L	1	0.100	<0.000371	96	78.6 - 120	1	20
Toluene		1	0.0952	mg/L	1	0.100	<0.000347	95	79.6 - 120	1	20
Ethylbenzene		1	0.0980	mg/L	1	0.100	<0.000326	98	80 - 120	1	20
Xylene		1	0.285	mg/L	1	0.300	<0.000357	95	79.3 - 120	1	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0963	0.0961	mg/L	1	0.100	96	96	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0896	0.0914	mg/L	1	0.100	90	91	70 - 130

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Matrix Spike (MS-1) Spiked Sample: 299584

QC Batch: 91876
Prep Batch: 77955

Date Analyzed: 2012-06-06
QC Preparation: 2012-06-06

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0964	mg/L	1	0.100	<0.000310	96	47 - 131
Toluene		1	0.0980	mg/L	1	0.100	<0.000259	98	52.2 - 128
Ethylbenzene		1	0.0957	mg/L	1	0.100	<0.000291	96	26.5 - 154
Xylene		1	0.290	mg/L	1	0.300	<0.000268	97	50.1 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0961	mg/L	1	0.100	<0.000310	96	47 - 131	0	20
Toluene		1	0.0993	mg/L	1	0.100	<0.000259	99	52.2 - 128	1	20
Ethylbenzene		1	0.0959	mg/L	1	0.100	<0.000291	96	26.5 - 154	0	20
Xylene		1	0.291	mg/L	1	0.300	<0.000268	97	50.1 - 130	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0926	0.0925	mg/L	1	0.1	93	92	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0990	0.100	mg/L	1	0.1	99	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 300057

QC Batch: 91921
Prep Batch: 77985

Date Analyzed: 2012-06-07
QC Preparation: 2012-06-07

Analyzed By: ZLM
Prepared By: ZLM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.61	mg/L	10	1.00	0.6	101	47 - 131
Toluene		1	1.06	mg/L	10	1.00	0.0888	97	52.2 - 128
Ethylbenzene		1	0.957	mg/L	10	1.00	0.0197	94	26.5 - 154
Xylene		1	3.13	mg/L	10	3.00	0.23	97	50.1 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	1.54	mg/L	10	1.00	0.6	94	47 - 131	4	20
Toluene		1	1.04	mg/L	10	1.00	0.0888	95	52.2 - 128	2	20

continued ...

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matrix spikes continued ...

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene		1	0.940	mg/L	10	1.00	0.0197	92	26.5 - 154	2	20
Xylene		1	3.06	mg/L	10	3.00	0.23	94	50.1 - 130	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.926	0.914	mg/L	10	1	93	91	70 - 130
4-Bromofluorobenzene (4-BFB)	0.968	0.974	mg/L	10	1	97	97	70 - 130

Matrix Spike (MS-1) Spiked Sample: 300274

QC Batch: 91967
Prep Batch: 78023

Date Analyzed: 2012-06-08
QC Preparation: 2012-06-08

Analyzed By: MT
Prepared By: MT

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	0.0791	mg/L	1	0.100	0.0036	76	42.2 - 136
Toluene		1	0.0754	mg/L	1	0.100	0.0005	75	44.3 - 133
Ethylbenzene		1	0.0760	mg/L	1	0.100	0.0012	75	45.6 - 132
Xylene		1	0.218	mg/L	1	0.300	0.0014	72	44.7 - 128

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1	0.0723	mg/L	1	0.100	0.0036	69	42.2 - 136	9	20
Toluene		1	0.0680	mg/L	1	0.100	0.0005	68	44.3 - 133	10	20
Ethylbenzene		1	0.0685	mg/L	1	0.100	0.0012	67	45.6 - 132	10	20
Xylene		1	0.196	mg/L	1	0.300	0.0014	65	44.7 - 128	11	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0995	0.101	mg/L	1	0.1	100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.0909	0.0922	mg/L	1	0.1	91	92	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 91876

Date Analyzed: 2012-06-06

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0968	97	80 - 120	2012-06-06
Toluene		1	mg/L	0.100	0.100	100	80 - 120	2012-06-06
Ethylbenzene		1	mg/L	0.100	0.0968	97	80 - 120	2012-06-06
Xylene		1	mg/L	0.300	0.294	98	80 - 120	2012-06-06

Standard (CCV-2)

QC Batch: 91876

Date Analyzed: 2012-06-06

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0957	96	80 - 120	2012-06-06
Toluene		1	mg/L	0.100	0.0989	99	80 - 120	2012-06-06
Ethylbenzene		1	mg/L	0.100	0.0952	95	80 - 120	2012-06-06
Xylene		1	mg/L	0.300	0.289	96	80 - 120	2012-06-06

Standard (CCV-3)

QC Batch: 91876

Date Analyzed: 2012-06-06

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0946	95	80 - 120	2012-06-06
Toluene		1	mg/L	0.100	0.0978	98	80 - 120	2012-06-06
Ethylbenzene		1	mg/L	0.100	0.0940	94	80 - 120	2012-06-06
Xylene		1	mg/L	0.300	0.286	95	80 - 120	2012-06-06

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Standard (CCV-1)

QC Batch: 91921

Date Analyzed: 2012-06-07

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0935	94	80 - 120	2012-06-07
Toluene		1	mg/L	0.100	0.0956	96	80 - 120	2012-06-07
Ethylbenzene		1	mg/L	0.100	0.0937	94	80 - 120	2012-06-07
Xylene		1	mg/L	0.300	0.285	95	80 - 120	2012-06-07

Standard (CCV-2)

QC Batch: 91921

Date Analyzed: 2012-06-07

Analyzed By: ZLM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0925	92	80 - 120	2012-06-07
Toluene		1	mg/L	0.100	0.0939	94	80 - 120	2012-06-07
Ethylbenzene		1	mg/L	0.100	0.0922	92	80 - 120	2012-06-07
Xylene		1	mg/L	0.300	0.280	93	80 - 120	2012-06-07

Standard (CCV-1)

QC Batch: 91967

Date Analyzed: 2012-06-08

Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0970	97	80 - 120	2012-06-08
Toluene		1	mg/L	0.100	0.0972	97	80 - 120	2012-06-08
Ethylbenzene		1	mg/L	0.100	0.100	100	80 - 120	2012-06-08
Xylene		1	mg/L	0.300	0.290	97	80 - 120	2012-06-08

Standard (CCV-2)

QC Batch: 91967

Date Analyzed: 2012-06-08

Analyzed By: MT

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/L	0.100	0.0983	98	80 - 120	2012-06-08
Toluene		1	mg/L	0.100	0.0980	98	80 - 120	2012-06-08
Ethylbenzene		1	mg/L	0.100	0.0994	99	80 - 120	2012-06-08
Xylene		1	mg/L	0.300	0.288	96	80 - 120	2012-06-08

Appendix

Report Definitions

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

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

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