

MAY 22 2013

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Report Date: February 11, 2013

Work Order: 13013131

Page Number: 1 of 2

Summary Report

Debi Sport Moore
Sport Environmental Services
502 N. Big Spring Street
Midland, TX 79701

Report Date: February 11, 2013

Work Order: 13013131

Project Location: Lea Co., NM
Project Name: Primexx-Coy Lowe #1 SWD Release

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
319997	C #1 @ 6"	soil	2013-01-31	10:52	2013-01-31
319998	C #1 - Surface	soil	2013-01-31	10:53	2013-01-31
319999	SP #1 @ 6"	soil	2013-01-31	10:59	2013-01-31
320000	SP #1 - Surface	soil	2013-01-31	10:55	2013-01-31
320001	SP #2 @ 6"	soil	2013-01-31	11:10	2013-01-31
320002	SP #2 - Surface	soil	2013-01-31	11:07	2013-01-31
320003	Background	soil	2013-01-31	11:15	2013-01-31

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
319997 - C #1 @ 6"	<0.100 ¹	<0.100	<0.100	<0.100	620 Qs	37.6 Qr
319998 - C #1 - Surface	<0.400 ²	<0.400	<0.400	<0.400	2080 Qs	<80.0 Qr
319999 - SP #1 @ 6"	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 Qs	<4.00 Qr
320000 - SP #1 - Surface	<1.00 ³	<1.00	<1.00	<1.00	2780 Qs	534 Qr
320001 - SP #2 @ 6"	<0.0200	<0.0200	<0.0200	<0.0200	<50.0 Qs	<4.00 Qr
320002 - SP #2 - Surface	<0.100 ⁴	<0.100	<0.100	<0.100	82.9 Qs	<20.0 Qr
320003 - Background	<0.0200	<0.0200	<0.0200	<0.0200	<250 Qs	<4.00 Qr

Sample: 319997 - C #1 @ 6"

Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	4
pH		7.59	s.u.	0

¹Dilution due to hydrocarbons.²Dilution due to surfactants.³Dilution due to hydrocarbons.⁴Dilution due to surfactants.

Sample: 319998 - C #1 - Surface

Param	Flag	Result	Units	RL
Chloride		5410	mg/Kg	4
pH		7.52	s.u.	0

Sample: 319999 - SP #1 @ 6"

Param	Flag	Result	Units	RL
Chloride		4290	mg/Kg	4
pH		7.60	s.u.	0

Sample: 320000 - SP #1 - Surface

Param	Flag	Result	Units	RL
Chloride		4520	mg/Kg	4
pH		7.69	s.u.	0

Sample: 320001 - SP #2 @ 6"

Param	Flag	Result	Units	RL
Chloride		1410	mg/Kg	4
pH		8.73	s.u.	0

Sample: 320002 - SP #2 - Surface

Param	Flag	Result	Units	RL
Chloride		3460	mg/Kg	4
pH		8.17	s.u.	0

Sample: 320003 - Background

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
pH		8.40	s.u.	0

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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Debi Sport Moore
Sport Environmental Services
502 N. Big Spring Street
Midland, TX, 79701

Report Date: February 11, 2013

Work Order: 13013131



Project Location: Lea Co., NM
Project Name: Primexx-Coy Lowe #1 SWD Release
Project Number: Primexx-Coy Lowe #1 SWD Release

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
319997	C #1 @ 6"	soil	2013-01-31	10:52	2013-01-31
319998	C #1 - Surface	soil	2013-01-31	10:53	2013-01-31
319999	SP #1 @ 6"	soil	2013-01-31	10:59	2013-01-31
320000	SP #1 - Surface	soil	2013-01-31	10:55	2013-01-31
320001	SP #2 @ 6"	soil	2013-01-31	11:10	2013-01-31
320002	SP #2 - Surface	soil	2013-01-31	11:07	2013-01-31
320003	Background	soil	2013-01-31	11:15	2013-01-31

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

Michael Abel

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

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Case Narrative

Samples for project Primexx-Coy Lowe #1 SWD Release were received by TraceAnalysis, Inc. on 2013-01-31 and assigned to work order 13013131. Samples for work order 13013131 were received intact 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	83647	2013-02-06 at 10:00	98714	2013-02-06 at 10:00
Chloride (Titration)	SM 4500-Cl B	83584	2013-02-04 at 08:20	98707	2013-02-06 at 16:55
pH	SM 4500-H+	83581	2013-02-04 at 09:27	98634	2013-02-04 at 15:27
TPH DRO - NEW	S 8015 D	83590	2013-02-04 at 10:00	98649	2013-02-05 at 09:28
TPH GRO	S 8015 D	83647	2013-02-06 at 10:00	98727	2013-02-06 at 10:00

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 13013131 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: 319997 - C #1 @ 6"

Laboratory: Midland
Analysis: BTEX
QC Batch: 98714
Prep Batch: 83647

Analytical Method: S 8021B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	1	<0.100	mg/Kg	5	0.0200
Toluene	U	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene	U	1	<0.100	mg/Kg	5	0.0200
Xylene	U	1	<0.100	mg/Kg	5	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Q _{sr}	Q _{sr}	11.3	mg/Kg	5	10.0	113	79.5 - 108
4-Bromofluorobenzene (4-BFB)			9.11	mg/Kg	5	10.0	91	71.4 - 108

Sample: 319997 - C #1 @ 6"

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 98707
Prep Batch: 83584

Analytical Method: SM 4500-Cl B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			1360	mg/Kg	10	4.00

Sample: 319997 - C #1 @ 6"

Laboratory: Midland
Analysis: pH
QC Batch: 98634
Prep Batch: 83581

Analytical Method: SM 4500-H+
Date Analyzed: 2013-02-04
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			7.59	s.u.	1	0.00

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Sample: 319997 - C #1 @ 6"

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 98649

Prep Batch: 83590

Analytical Method: S 8015 D

Date Analyzed: 2013-02-05

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Q _s	1	620	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q _{sr}	Q _{sr}	164	mg/Kg	1	100	164	70 - 130

Sample: 319997 - C #1 @ 6"

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 98727

Prep Batch: 83647

Analytical Method: S 8015 D

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Q _r	1	37.6	mg/Kg	5	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			9.10	mg/Kg	5	10.0	91	70 - 130
4-Bromofluorobenzene (4-BFB)			9.82	mg/Kg	5	10.0	98	70 - 130

Sample: 319998 - C #1 - Surface

Laboratory: Midland

Analysis: BTEX

QC Batch: 98714

Prep Batch: 83647

Analytical Method: S 8021B

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	² u	1	<0.400	mg/Kg	20	0.0200
Toluene	u	1	<0.400	mg/Kg	20	0.0200
Ethylbenzene	u	1	<0.400	mg/Kg	20	0.0200
Xylene	u	1	<0.400	mg/Kg	20	0.0200

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	45.4	mg/Kg	20	40.0	114	79.5 - 108
4-Bromofluorobenzene (4-BFB)			35.8	mg/Kg	20	40.0	90	71.4 - 108

Sample: 319998 - C #1 - Surface

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 98707 Date Analyzed: 2013-02-06 Analyzed By: AR
Prep Batch: 83584 Sample Preparation: 2013-02-04 Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			5410	mg/Kg	10	4.00

Sample: 319998 - C #1 - Surface

Laboratory: Midland
Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 98634 Date Analyzed: 2013-02-04 Analyzed By: AR
Prep Batch: 83581 Sample Preparation: 2013-02-04 Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			7.52	s.u.	1	0.00

Sample: 319998 - C #1 - Surface

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 98649 Date Analyzed: 2013-02-05 Analyzed By: CW
Prep Batch: 83590 Sample Preparation: 2013-02-04 Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	2080	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	240	mg/Kg	1	100	240	70 - 130

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Sample: 319998 - C #1 - Surface

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 98727
Prep Batch: 83647

Analytical Method: S 8015 D
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qr,U	1	<80.0	mg/Kg	20	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			36.0	mg/Kg	20	40.0	90	70 - 130
4-Bromofluorobenzene (4-BFB)			36.7	mg/Kg	20	40.0	92	70 - 130

Sample: 319999 - SP #1 @ 6"

Laboratory: Midland
Analysis: BTEX
QC Batch: 98714
Prep Batch: 83647

Analytical Method: S 8021B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.35	mg/Kg	1	2.00	118	79.5 - 108
4-Bromofluorobenzene (4-BFB)			1.91	mg/Kg	1	2.00	96	71.4 - 108

Sample: 319999 - SP #1 @ 6"

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 98707
Prep Batch: 83584

Analytical Method: SM 4500-Cl B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-04

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

continued ...

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sample 319999 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			4290	mg/Kg	10	4.00

Sample: 319999 - SP #1 @ 6"

Laboratory: Midland

Analysis: pH

QC Batch: 98634

Prep Batch: 83581

Analytical Method: SM 4500-H+

Date Analyzed: 2013-02-04

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			7.60	s.u.	1	0.00

Sample: 319999 - SP #1 @ 6"

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 98649

Prep Batch: 83590

Analytical Method: S 8015 D

Date Analyzed: 2013-02-05

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			112	mg/Kg	1	100	112	70 - 130

Sample: 319999 - SP #1 @ 6"

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 98727

Prep Batch: 83647

Analytical Method: S 8015 D

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

continued ...

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sample 319999 continued ...

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.15	mg/Kg	1	2.00	108	70 - 130
4-Bromofluorobenzene (4-BFB)			1.90	mg/Kg	1	2.00	95	70 - 130

Sample: 320000 - SP #1 - Surface

Laboratory: Midland
Analysis: BTEX
QC Batch: 98714
Prep Batch: 83647

Analytical Method: S 8021B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	3 U	1	<1.00	mg/Kg	50	0.0200
Toluene	U	1	<1.00	mg/Kg	50	0.0200
Ethylbenzene	U	1	<1.00	mg/Kg	50	0.0200
Xylene	U	1	<1.00	mg/Kg	50	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qcr	Qcr	116	mg/Kg	50	100	116	79.5 - 108
4-Bromofluorobenzene (4-BFB)			91.3	mg/Kg	50	100	91	71.4 - 108

Sample: 320000 - SP #1 - Surface

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 98707
Prep Batch: 83584

Analytical Method: SM 4500-Cl B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			4520	mg/Kg	10	4.00

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Sample: 320000 - SP #1 - Surface

Laboratory: Midland

Analysis: pH

QC Batch: 98634

Prep Batch: 83581

Analytical Method: SM 4500-H+

Date Analyzed: 2013-02-04

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			7.69	s.u.	1	0.00

Sample: 320000 - SP #1 - Surface

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 98649

Prep Batch: 83590

Analytical Method: S 8015 D

Date Analyzed: 2013-02-05

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	2780	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr	234	mg/Kg	1	100	234	70 - 130

Sample: 320000 - SP #1 - Surface

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 98727

Prep Batch: 83647

Analytical Method: S 8015 D

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qr	1	534	mg/Kg	50	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			91.0	mg/Kg	50	100	91	70 - 130
4-Bromofluorobenzene (4-BFB)			95.0	mg/Kg	50	100	95	70 - 130

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Sample: 320001 - SP #2 @ 6"

Laboratory: Midland
Analysis: BTEX
QC Batch: 98714
Prep Batch: 83647

Analytical Method: S 8021B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.33	mg/Kg	1	2.00	116	79.5 - 108
4-Bromofluorobenzene (4-BFB)			1.86	mg/Kg	1	2.00	93	71.4 - 108

Sample: 320001 - SP #2 @ 6"

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 98707
Prep Batch: 83584

Analytical Method: SM 4500-Cl B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			1410	mg/Kg	10	4.00

Sample: 320001 - SP #2 @ 6"

Laboratory: Midland
Analysis: pH
QC Batch: 98634
Prep Batch: 83581

Analytical Method: SM 4500-H+
Date Analyzed: 2013-02-04
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			8.73	s.u.	1	0.00

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Sample: 320001 - SP #2 @ 6"

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 98649

Prep Batch: 83590

Analytical Method: S 8015 D

Date Analyzed: 2013-02-05

Sample Preparation: 2013-02-04

Prep Method: N/A

Analyzed By: CW

Prepared By: CW

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 320001 - SP #2 @ 6"

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 98727

Prep Batch: 83647

Analytical Method: S 8015 D

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.86	mg/Kg	1	2.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)			1.88	mg/Kg	1	2.00	94	70 - 130

Sample: 320002 - SP #2 - Surface

Laboratory: Midland

Analysis: BTEX

QC Batch: 98714

Prep Batch: 83647

Analytical Method: S 8021B

Date Analyzed: 2013-02-06

Sample Preparation: 2013-02-06

Prep Method: S 5035

Analyzed By: YG

Prepared By: YG

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	4 u	1	<0.100	mg/Kg	5	0.0200
Toluene	u	1	<0.100	mg/Kg	5	0.0200
Ethylbenzene	u	1	<0.100	mg/Kg	5	0.0200
Xylene	u	1	<0.100	mg/Kg	5	0.0200

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	11.6	mg/Kg	5	10.0	116	79.5 - 108
4-Bromofluorobenzene (4-BFB)			9.24	mg/Kg	5	10.0	92	71.4 - 108

Sample: 320002 - SP #2 - Surface

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 98707 Date Analyzed: 2013-02-06 Analyzed By: AR
Prep Batch: 83584 Sample Preparation: 2013-02-04 Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			3460	mg/Kg	10	4.00

Sample: 320002 - SP #2 - Surface

Laboratory: Midland
Analysis: pH Analytical Method: SM 4500-H+ Prep Method: N/A
QC Batch: 98634 Date Analyzed: 2013-02-04 Analyzed By: AR
Prep Batch: 83581 Sample Preparation: 2013-02-04 Prepared By: AR

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			8.17	s.u.	1	0.00

Sample: 320002 - SP #2 - Surface

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 98649 Date Analyzed: 2013-02-05 Analyzed By: CW
Prep Batch: 83590 Sample Preparation: 2013-02-04 Prepared By: CW

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Qs	1	82.9	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			117	mg/Kg	1	100	117	70 - 130

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Sample: 320002 - SP #2 - Surface

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 98727
Prep Batch: 83647

Analytical Method: S 8015 D
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	Qr	1	<20.0	mg/Kg	5	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			9.15	mg/Kg	5	10.0	92	70 - 130
4-Bromofluorobenzene (4-BFB)			9.44	mg/Kg	5	10.0	94	70 - 130

Sample: 320003 - Background

Laboratory: Midland
Analysis: BTEX
QC Batch: 98714
Prep Batch: 83647

Analytical Method: S 8021B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	2.28	mg/Kg	1	2.00	114	79.5 - 108
4-Bromofluorobenzene (4-BFB)			1.84	mg/Kg	1	2.00	92	71.4 - 108

Sample: 320003 - Background

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 98707
Prep Batch: 83584

Analytical Method: SM 4500-Cl B
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-04

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

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sample 320003 continued ...

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

Sample: 320003 - Background

Laboratory: Midland
Analysis: pH
QC Batch: 98634
Prep Batch: 83581

Analytical Method: SM 4500-H+
Date Analyzed: 2013-02-04
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
pH			8.40	s.u.	1	0.00

Sample: 320003 - Background

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 98649
Prep Batch: 83590

Analytical Method: S 8015 D
Date Analyzed: 2013-02-05
Sample Preparation: 2013-02-04

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

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	Q ₈ , U	1	<250	mg/Kg	5	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Q ₈ r	Q ₈ r	140	mg/Kg	5	100	140	70 - 130

Sample: 320003 - Background

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 98727
Prep Batch: 83647

Analytical Method: S 8015 D
Date Analyzed: 2013-02-06
Sample Preparation: 2013-02-06

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

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sample 320003 continued ...

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

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.09	mg/Kg	1	2.00	104	70 - 130
4-Bromofluorobenzene (4-BFB)			1.85	mg/Kg	1	2.00	92	70 - 130

Method Blanks

Method Blank (1) QC Batch: 98649

QC Batch: 98649
Prep Batch: 83590

Date Analyzed: 2013-02-05
QC Preparation: 2013-02-04

Analyzed By: CW
Prepared By: CW

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	<6.88	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			109	mg/Kg	1	100	109	70 - 130

Method Blank (1) QC Batch: 98707

QC Batch: 98707
Prep Batch: 83584

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-04

Analyzed By: AR
Prepared By: AR

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

Method Blank (1) QC Batch: 98714

QC Batch: 98714
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1	<0.00810	mg/Kg	0.02
Toluene		1	<0.00750	mg/Kg	0.02
Ethylbenzene		1	<0.00730	mg/Kg	0.02
Xylene		1	<0.00700	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	2.28	mg/Kg	1	2.00	114	79.5 - 108

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)			1.75	mg/Kg	1	2.00	88	71.4 - 108

Method Blank (1) QC Batch: 98727

QC Batch: 98727
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.79	mg/Kg	1	2.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)			1.76	mg/Kg	1	2.00	88	70 - 130

Duplicates (1) Duplicated Sample: 320003

QC Batch: 98634
Prep Batch: 83581

Date Analyzed: 2013-02-04
QC Preparation: 2013-02-04

Analyzed By: AR
Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH	8.35	8.40	s.u.	1	1	5

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 98649
Prep Batch: 83590

Date Analyzed: 2013-02-05
QC Preparation: 2013-02-04

Analyzed By: CW
Prepared By: CW

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	271	mg/Kg	1	250	<6.88	108	70 - 130

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		1	257	mg/Kg	1	250	<6.88	103	70 - 130	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	117	110	mg/Kg	1	100	117	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 98707
Prep Batch: 83584

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-04

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2520	mg/Kg	1	2500	<3.85	101	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2450	mg/Kg	1	2500	<3.85	98	85 - 115	3	20

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

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Laboratory Control Spike (LCS-1)

QC Batch: 98714
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	1.82	mg/Kg	1	2.00	<0.00810	91	72.4 - 120
Toluene		1	1.88	mg/Kg	1	2.00	<0.00750	94	77 - 120
Ethylbenzene		1	2.02	mg/Kg	1	2.00	<0.00730	101	71.8 - 120
Xylene		1	6.24	mg/Kg	1	6.00	<0.00700	104	78.3 - 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	1.81	mg/Kg	1	2.00	<0.00810	90	72.4 - 120	1	20
Toluene		1	1.88	mg/Kg	1	2.00	<0.00750	94	77 - 120	0	20
Ethylbenzene		1	2.01	mg/Kg	1	2.00	<0.00730	100	71.8 - 120	0	20
Xylene		1	6.24	mg/Kg	1	6.00	<0.00700	104	78.3 - 120	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)	Q _{sr}	Q _{sr}	2.32	2.32	mg/Kg	1	2.00	116	116	79.5 - 108
4-Bromofluorobenzene (4-BFB)			1.95	1.84	mg/Kg	1	2.00	98	92	71.4 - 108

Laboratory Control Spike (LCS-1)

QC Batch: 98727
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	19.5	mg/Kg	1	20.0	<2.32	98	70 - 130

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
GRO		1	20.0	mg/Kg	1	20.0	<2.32	100	70 - 130	2	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
Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.90	1.88	mg/Kg	1	2.00	95	94	70 - 130
4-Bromofluorobenzene (4-BFB)	1.92	1.88	mg/Kg	1	2.00	96	94	70 - 130

Matrix Spike (MS-1) Spiked Sample: 319997

QC Batch: 98649
Prep Batch: 83590

Date Analyzed: 2013-02-05
QC Preparation: 2013-02-04

Analyzed By: CW
Prepared By: CW

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	Qs	Qs	1	432	mg/Kg	1	250	620	-75 70 - 130

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

Param	F		C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	Qs	Qs	1	429	mg/Kg	1	250	620	-76	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-Tricosane	118	117	mg/Kg	1	100	118	117	70 - 130

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 98707
Prep Batch: 83584

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-04

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2400	mg/Kg	5	2500	<19.2	96	78.9 - 121

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2210	mg/Kg	5	2500	<19.2	88	78.9 - 121	8	20

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

Matrix Spike (MS-1) Spiked Sample: 319999

QC Batch: 98714
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1	2.06	mg/Kg	1	2.00	<0.00810	103	66.3 - 138
Toluene		1	2.11	mg/Kg	1	2.00	<0.00750	106	64.8 - 142
Ethylbenzene		1	2.26	mg/Kg	1	2.00	<0.00730	113	72 - 132
Xylene		1	6.99	mg/Kg	1	6.00	<0.00700	116	60.8 - 148

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	1.97	mg/Kg	1	2.00	<0.00810	98	66.3 - 138	4	20
Toluene		1	2.03	mg/Kg	1	2.00	<0.00750	102	64.8 - 142	4	20
Ethylbenzene		1	2.17	mg/Kg	1	2.00	<0.00730	108	72 - 132	4	20
Xylene		1	6.74	mg/Kg	1	6.00	<0.00700	112	60.8 - 148	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)	Q _{sr}	Q _{sr}	2.31	2.33	mg/Kg	1	2	116	116	79.5 - 108
4-Bromofluorobenzene (4-BFB)			1.89	1.92	mg/Kg	1	2	94	96	71.4 - 108

Matrix Spike (MS-1) Spiked Sample: 319999

QC Batch: 98727
Prep Batch: 83647

Date Analyzed: 2013-02-06
QC Preparation: 2013-02-06

Analyzed By: YG
Prepared By: YG

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	5	1	14.8	mg/Kg	1	20.0	<2.32	74	70 - 130

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6	Q _{sr} Q _{sr} 1	19.6	mg/Kg	1	20.0	<2.32	98	70 - 130	28	20

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

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Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.01	2.12	mg/Kg	1	2	100	106	70 - 130
4-Bromofluorobenzene (4-BFB)	1.92	1.97	mg/Kg	1	2	96	98	70 - 130

Calibration Standards

Standard (ICV-1)

QC Batch: 98634

Date Analyzed: 2013-02-04

Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH			s.u.	7.00	7.00	100	98 - 102	2013-02-04

Standard (CCV-1)

QC Batch: 98634

Date Analyzed: 2013-02-04

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH			s.u.	7.00	7.07	101	98 - 102	2013-02-04

Standard (CCV-1)

QC Batch: 98649

Date Analyzed: 2013-02-05

Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	264	106	80 - 120	2013-02-05

Standard (CCV-2)

QC Batch: 98649

Date Analyzed: 2013-02-05

Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	246	98	80 - 120	2013-02-05

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Standard (CCV-3)

QC Batch: 98649

Date Analyzed: 2013-02-05

Analyzed By: CW

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	243	97	80 - 120	2013-02-05

Standard (CCV-1)

QC Batch: 98707

Date Analyzed: 2013-02-06

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2013-02-06

Standard (CCV-2)

QC Batch: 98707

Date Analyzed: 2013-02-06

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.8	100	85 - 115	2013-02-06

Standard (CCV-1)

QC Batch: 98714

Date Analyzed: 2013-02-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.103	103	80 - 120	2013-02-06
Toluene		1	mg/kg	0.100	0.103	103	80 - 120	2013-02-06
Ethylbenzene		1	mg/kg	0.100	0.105	105	80 - 120	2013-02-06
Xylene		1	mg/kg	0.300	0.324	108	80 - 120	2013-02-06

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Standard (CCV-2)

QC Batch: 98714

Date Analyzed: 2013-02-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1	mg/kg	0.100	0.104	104	80 - 120	2013-02-06
Toluene		1	mg/kg	0.100	0.104	104	80 - 120	2013-02-06
Ethylbenzene		1	mg/kg	0.100	0.105	105	80 - 120	2013-02-06
Xylene		1	mg/kg	0.300	0.324	108	80 - 120	2013-02-06

Standard (CCV-1)

QC Batch: 98727

Date Analyzed: 2013-02-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.996	100	80 - 120	2013-02-06

Standard (CCV-2)

QC Batch: 98727

Date Analyzed: 2013-02-06

Analyzed By: YG

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.12	112	80 - 120	2013-02-06

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	T104704392-12-4	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

- 1 Dilution due to hydrocarbons.
- 2 Dilution due to surfactants.
- 3 Dilution due to hydrocarbons.
- 4 Dilution due to surfactants.
- 5 Matrix effect.
- 6 Matrix effect.

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 Ave, Ste 9
Lubbock, Texas 79424
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Fax (806) 794-1298
1 (800) 378-1296

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Tel (432) 689-6301
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200 East Sunset Rd , Suite E
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Fax (915) 585-4944

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

Company Name:	Sport Environmental Services, PLLC	Phone #:	(432) 683-1100
Address:	502 N. Big Spring Street, Midland, Texas 79701	Fax #:	(888) 500-0622
Contact Person:	Debi S. Moore, M.E., R.E.P.A.	E-mail:	debi@sportenvironmental.com
Invoice to:	same as above		
Project #:	N/A	Project Name:	Primexx - Coy Lowe #1 SWD Release
Project Location: (include state)	Lea County, New Mexico	Sampler Signature:	<i>Marissa Davis</i>

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible][illegible]

LAB USE ONLY	REMARKS: <i>Samples taken in NM but recorded TX time</i>
Intact <u>Y/N</u>	☐ Dry Weight Basis Required
Headspace <u>Y/N/NA</u>	<i>Midland all</i> ☐ TRRP Report Required
Log-in Review _____	☐ Check If Special Reporting Limits Are Needed



Client - Primexx Energy Partners
Project - Coy Lowe SWD Release

HOBBS OCD

MAY 22 2013

RECEIVED

Sample ID	Description	Date	Time	pH	Chloride ppm	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylene mg/Kg	TPH DRO mg/Kg	TPH GRO mg/Kg
C #1 @ 6" bgs	Sample taken within containment at 6" bgs	1/31/2013	10:52	7.59	1360	<0.1	<0.1	<0.1	<0.1	620	37.6
C #1 - Surface	Sample taken within containment at the surface	1/31/2013	10:53	7.52	5410	<0.4	<0.4	<0.4	<0.4	2080	<80.0
SP #1 @ 6"	Sample along spill path just outside of containment at 6" bgs	1/31/2013	10:59	7.60	4290	<0.02	<0.02	<0.02	<0.02	<50.0	<4.00
SP #1 - Surface	Sample along spill path just outside of containment at the surface	1/31/2013	10:55	7.69	4520	<1.00	<1.00	<1.00	<1.00	2780	534
SP #2 @ 6"	Sample taken near the end of the spill path at 6" bgs	1/31/2013	11:10	8.73	1410	<0.02	<0.02	<0.02	<0.02	<50.0	<4.00
SP #2 - Surface	Sample taken near the end of the spill path at the surface	1/31/2013	11:07	8.17	3460	<0.1	<0.1	<0.1	<0.1	82.9	<20.0
Background		1/31/2013	11:15	8.40	<20.0	<0.02	<0.02	<0.02	<0.02	<250	<4.00