

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1603949820

1RP - 4169 FASKEN OIL & RANCH LTD

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State of New Mexico Energy Minerals and Natural Resources

rtto.

Form C-141 Revised October 10, 2003

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Fasken Oil and Ranch, Ltd. Denton SWD #1 Mainline Monitor Well Unit J, Section 11, Township 15S, Range 37E Lea County, New Mexico

Closure Report

July 10, 2012



Prepared for:

Fasken Oil and Ranch, Ltd. 303 West Wall Street, Suite 1800 Midland, Texas 79701-5116

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

TABLE OF CONTENTS

ompany Contacts	. 1
Background	. 1
Groundwater	. 1
Work Performed	. 2
Conclusion	. 2
Figures & Appendices	. 2
Figure 2 – Site Plan	. 4
	Background Groundwater Work Performed Conclusion Figures & Appendices Figure 1 - Vicinity Map Figure 2 - Site Plan Figure 3 - Logs of Boring Appendix A - Analytical Results

I. Company Contacts

Representative	Company	Telephone	E-mail
Jimmy Carlile	Fasken	432-818-0210	jimmyc@forl.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. was retained by Fasken Oil & Ranch, Ltd. to perform a site assessment at the Denton #1 SWD Mainline. The site is located in Unit Letter J, Section 11, Township; 15 South, Range 37 East.

On July 25, 2004 the Denton # 1 SWD Mainline, which is a 10" red thread fiberglass pipe, breached and released approximately 10,000 barrels of salt water. The line was shut down and excavated with a backhoe. The damaged section of the line was removed and replaced with new.

Contaminant and Size of Area

The suspected contaminant is salt water. Approximately 10,000 barrels of salt water were released. The release covered approximately 136,317 square feet. According to Permian Production Chemical, an analysis of the produced water, which flows through this line, indicated a chloride concentration of 53,053 ppm.

Vertical and Horizontal Extent of Contamination

As reported in the Delineation report dated September 28, 2004, SESI installed a total of six boreholes in the area. With the exception of BH-1, in which auger refusal was encountered at a depth of 30 ft., all other boreholes indicated the vertical extent of contamination to be between 20 and 25 ft. in some areas.

On October 25, 2004, Safety & Environmental Solutions, Inc. (SESI) engaged Eco Drilling of Midland, Texas to install a monitor well. The well was installed in the same vicinity where the highest levels of contamination took place (BH-2).

The monitor well was drilled to a depth of 65 feet. Composite samples were retrieved every 5 feet and a background soil sample was also retrieved. The samples were properly packaged and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for Chlorides (EPA Method 4500-Cl⁻B). Installation of the monitor well indicated the contamination has not reached the groundwater (See Figure 3 Log of Boring).

III. Groundwater

On October 29, 2004 SESI developed the monitor well and found the depth of water to be 59.10 feet bgs.

IV. Work Performed

In order to monitor the extent of contamination in monitor well-1, samples have been obtained from late 2004 until 2012. The samples were collected and transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (SM4500 Cl⁻B), Total Dissolved Solids (TDS 160.1) and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8260B) with the exception of the years 2005-2007 the samples were not tested for BTEX.

Monitoring Well	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Total Xylenes (mg/L)
MW-1	11/04/04	52	492	<0.002	<0.002	<0.002	<0.006
1	06/23/05	40	585				
	03/14/06	36	480				
	07/31/07	38	450				
	02/02/10	44	509	<0.001	<0.001	<0.001	<0.003
	03/29/10	40	509	<0.001	<0.001	<0.001	<0.003
	07/09/10	41	580	<0.0010	<0.0010	<0.0010	<0.0020
	11/08/10	38	820	<0.0010	<0.0010	<0.0010	<0.0020
	01/20/11	41	720	<0.0010	<0.0010	<0.0010	<0.0020
	04/27/11	38	540	<0.0010	<0.0010	<0.0010	<0.0020
	01/16/12	36	522	<0.0010	<0.0010	<0.0010	<0.0020
161	03/06/12	36	580	<0.0010	<0.0010	<0.0010	<0.0020
	04/26/12	56	463	<0.0010	<0.0010	<0.0010	<0.0030
NM Groundwa	ter Standard:	250	1,000	0.01	0.75	0.75	0.62

V. Conclusion

The analysis results of all the samples taken from monitor well-1 indicate that chloride contamination has not reached the groundwater. The chloride contamination levels have never exceeded New Mexico groundwater standards. We are requesting no further sampling and respectfully submit permission to plug and abandon monitor well #1.

VI. Figures & Appendices

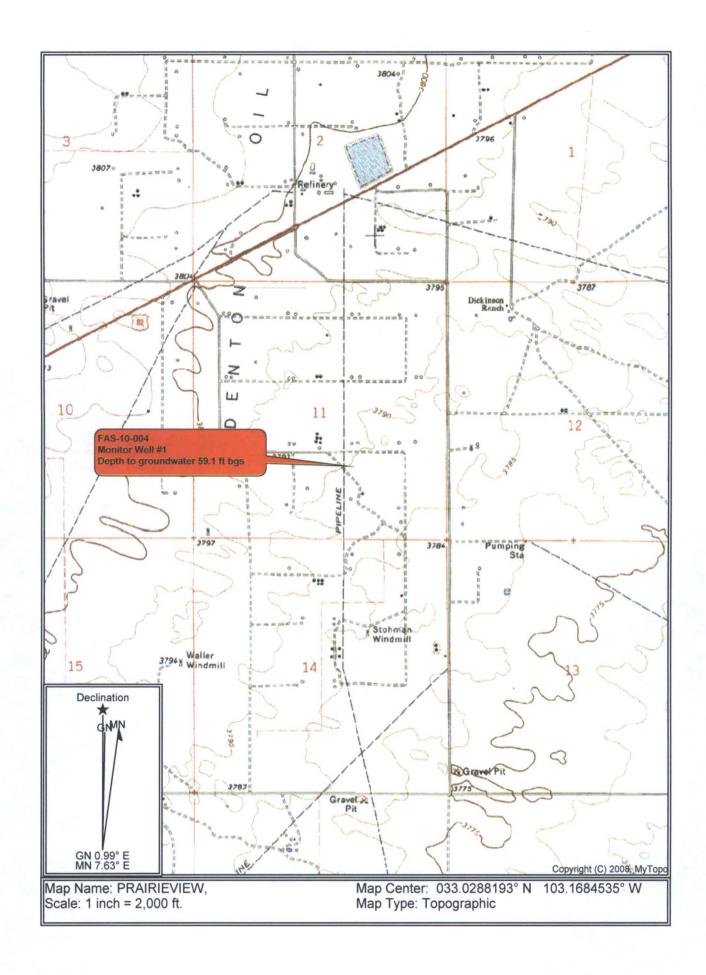
Figure 1 - Vicinity Map

Figure 2 - Site Plan

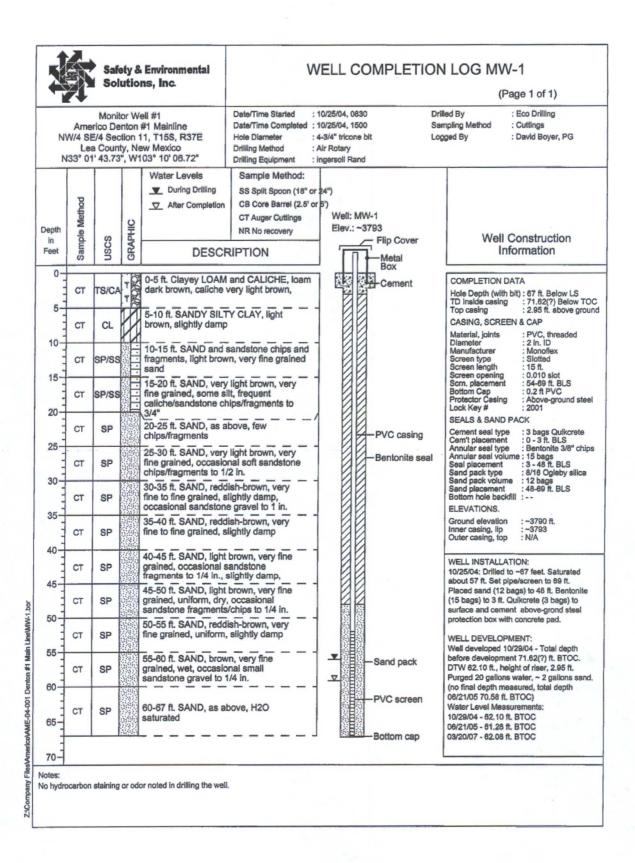
Figure 3 – Logs of Boring

Appendix A – Analytical Results

Appendix B - C-141









February 9, 2010

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #102 Hobbs, NM 88240

Re: Denton SWD Mainline (FAS-10-004)

Enclosed are the results of analyses for sample number H19197, received by the laboratory on 02/02/10 at 1:45 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 02/02/10 Reporting Date: 02/05/10

Project Owner: FASKIN (FAS-10-004)
Project Name: DENTON SWD MAINLINE

Project Location: LEA COUNTY, NM

Sampling Date: 02/02/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 0 °C

Sample Received By: CK

Analyzed By: ZL

LAB NO. SAMPLE ID

BENZENE TOLUENE BENZENE XYLENES (mg/L) (mg/L) (mg/L) (mg/L)

ANALYSIS DATE:	02/04/10	02/04/10	02/04/10	02/04/10
H19197-1 MW #1	<0.001	<0.001	<0.001	< 0.003
			-	
Quality Control	0.043	0.043	0.043	0.128
True Value QC	0.050	0.050	0.050	0.150
% Recovery	86.0	86.0	86.0	85.3
Relative Percent Difference	10	9	1.8	5.3

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Directo

02/09/10 Date

H19197 BTEX SESI



ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 02/02/10 Reporting Date: 02/05/10

Project Number: FAS-10-004 (FASKIN)

Project Name: DENTON SWD MAINLINE

Project Location: LEA COUNTY, N.M.

Sampling Date: 02/02/10 Sample Type: WATER

Sample Condition: COOL & INTACT @ 0°C

Sample Received By: CK

Analyzed By: HM

LAB NO.

SAMPLE ID

CI (mg/L)

TDS (mg/L)

Analysis Date: 02/02/10 02/03/10 H19197-1 MW #1 509 44 **Quality Control** 500 NR True Value QC 500 NR % Recovery 100 NR Relative Percent Difference 2.0 1.3

METHOD: Standard Methods, EPA 4500-CIB 160.1

Not accredited for Chloride and TDS.

22/09/10

H19197 SESI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 Fax (505) 393-2476 101 East Marland, Hobbs, NM 88240

ompany Name: Safety & Environmental Solutions, Inc.	vironmental	Sol	uti	ons	1.	c)	104			777	BILL TO							A	AL	/SIS	RE	ANALYSIS REQUEST	ST				
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ity: Hobbs	State: NM		Zip: 88240	824	0		A	Attn:																			
hone #: 575-397-0510 Fax #:		575-393-4388	3-4	38	00		4	Address:	 00																		
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Terms and GotdBlons: Interest will be charged on all accounts more than 30 days part due at the rate of 24% per ansum from the original date of involce, and all costs of collections, including afformy's less.

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Sampler - UPS - Bus - Other:		<u>C</u>	TYes TYes	1/01					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



April 5, 2010

Bob Allen Safety & Environmental Solutions, Inc. 703 East Clinton, #102 Hobbs, NM 88240

Re: Denton SWD Mainline (FAS-10-004)

Enclosed are the results of analyses for sample number H19568, received by the laboratory on 03/29/10 at 3:05 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS ATTN: BOB ALLEN

703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 03/29/10

Reporting Date: 04/05/10 Project Owner: FASKIN

Project Name: DENTON SWD MAINLINE (FAS-10-004)

Project Location: LEA COUNTY

Sampling Date: 03/29/10

Sample Type: WATER

Sample Condition: INTACT @ 15°C

Sample Received By: JH

Analyzed By: HM

		CI	TDS
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)

Analysis Date:		03/29/10	03/30/10
H19568-1	MW #1	40	509
Quality Contro		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Perce	ent Difference	< 0.1	6.2

METHOD: Standard Methods, EPA 4500-Cl'B 160.1

Not accredited for Chloride and TDS.

Chemist Men

Date

H19568 SESI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (575) 393-4388

Receiving Date: 03/29/10 Reporting Date: 03/31/10

Project Owner: FASKIN

Project Name: DENTON SWD MAINLINE (FAS-10-004)

Project Location: LEA COUNTY

Sampling Date: 03/29/10 Sample Type: WATER

Sample Condition: INTACT @ 15 °C

Sample Received By: JH

Analyzed By: ZL

LAB NO. SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:	03/30/10	03/30/10	03/30/10	03/30/10
H19568-1 MW #1	<0.001	<0.001	<0.001	<0.003
Quality Control	0.045	0.058	0.050	0.150
True Value QC	0.050	0.050	0.050	0.150
% Recovery	90.0	116.0	100.0	100.0
Relative Percent Difference	1.0	6.1	6.7	3.8

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Lab Director

Date

H19568 WB SESI

ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Jo

REQUEST

ANALYSIS

101 East Marland, Hobbs, NM 68240 (505) 393-2326 Fax (505) 393-2476 SAMPLING BILL 7.0 Po#: ZIp: SAME Company: PRES Address: Phone #: State: Fax #: Altn: CITY MATRIX 2111 Beechwood, Abilene, TX 79603. (915) 673-7001 Fax (915) 673-7020 Project #: FAS-10-004Project Owner: Fastin SWD Mainline State: NM ZIp: 88240 (G)PAS OR (C)OMP. County #103 Address: 703 E. CLINTON, 397-0510 393-4388 Project Name: Devilor SEST Phone #: (505) Company Name: Project Location: Project Manager: FOR LAB USE ONLY (505) CILY: HOBBS

Fax #:

201

1230 TIME

3/21/10

DATE

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SCUDGE

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Fax Result: (1) Yes
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† Cardinal cannol accept verbal changes. Please lax written changes of 15-873-7020.



COVER LETTER

Wednesday, July 21, 2010

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Fasken Denton SWD Mainline

Dear Dave Boyer:

Order No.: 1007294

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 7/9/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Date: 21-Jul-10

CLIENT:

Safety & Environmental Solutions

Lab Order:

1007294

Fasken Denton SWD Mainline

Project: Lab ID:

1007294-01

Client Sample ID: MW #1

Collection Date: 7/8/2010 8:20:00 AM

Date Received: 7/9/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: LJB
Chloride	41	10	mg/L	20	7/9/2010 7:29:12 PM
EPA METHOD 8260B: VOLATILES					Analyst: MMS
Benzene	ND	1.0	μg/L	1	7/15/2010 5:23:00 AM
Toluene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Ethylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Naphthalene	ND	2.0	µg/L	. 1	7/15/2010 5:23:00 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	7/15/2010 5:23:00 AM
2-Methylnaphthalene	ND	4.0	µg/L	1	7/15/2010 5:23:00 AM
Acetone	ND	10	μg/L	1	7/15/2010 5:23:00 AM
Bromobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Bromodichloromethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Bromoform	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Bromomethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
2-Butanone	ND	10	µg/L	1	7/15/2010 5:23:00 AM
Carbon disulfide	ND	10	µg/L	1	7/15/2010 5:23:00 AM
Carbon Tetrachloride	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Chlorobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Chloroethane	ND	2.0	μg/L	1	7/15/2010 5:23:00 AM
Chloroform	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Chloromethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
2-Chlorotoluene	ND	1.0	μg/L	1	7/15/2010 5:23:00 AM
4-Chlorotoluene	ND.	1.0	µg/L	1	7/15/2010 5:23:00 AM
cis-1,2-DCE	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
cis-1,3-Dichloropropene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	7/15/2010 5:23:00 AM
Dibromochloromethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Dibromomethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichlorobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,3-Dichlorobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,4-Dichlorobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Dichlorodifluoromethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloroethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloroethene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichloropropane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,3-Dichloropropane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
 - ND Not Detected at the Reporting Limit
 - S Spike recovery outside accepted recovery limits

Date: 21-Jul-10

CLIENT:

Safety & Environmental Solutions

Lab Order:

1007294

Client Sample ID: MW #1

Collection Date: 7/8/2010 8:20:00 AM

Project:

Fasken Denton SWD Mainline

Date Received: 7/9/2010

Lab ID:

1007294-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: MM:
2,2-Dichloropropane	ND	2.0	µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloropropene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Hexachlorobutadiene	NĐ	1.0	µg/L	1	7/15/2010 5:23:00 AM
2-Hexanone	ND	10	µg/L	1	7/15/2010 5:23:00 AM
Isopropylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
4-Isopropyltoluene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1	7/15/2010 5:23:00 AM
Methylene Chloride	ND	3.0	µg/L	1	7/15/2010 5:23:00 AM
n-Butylbenzene	. ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
n-Propylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
sec-Butylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Styrene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
tert-Butylbenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	7/15/2010 5:23:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	. 1	7/15/2010 5:23:00 AM
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
trans-1,2-DCE	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	7/15/2010 5:23:00 AM
1,1,1-Trichloroethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,1,2-Trichloroethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	7/15/2010 5:23:00 AM
Trichlorofluoromethane	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
1,2,3-Trichloropropane	ND	2.0	µg/L	1	7/15/2010 5:23:00 AM
Vinyl chloride	ND	1.0	µg/L	1	7/15/2010 5:23:00 AM
Xylenes, Total	ND	1.5	µg/L	.1	7/15/2010 5:23:00 AM
Surr: 1,2-Dichloroethane-d4	77.4	54.6-141	%REC	1	7/15/2010 5:23:00 AM
Surr: 4-Bromofluorobenzene	102	60.1-133	%REC	1	7/15/2010 5:23:00 AM
Surr: Dibromofluoromethane	121	78.5-130	%REC	1	7/15/2010 5:23:00 AM
Surr: Toluene-d8	99.8	79.5-126	%REC	1	7/15/2010 5:23:00 AM
M2540C MOD: TOTAL DISSOLVED SO	DLIDS				Analyst: KS
Total Dissolved Solids	580	200	mg/L	1	7/15/2010 3:16:00 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Estimated value
- Analyte detected below quantitation limits
- Non-Chlorinated
- PQL Practical Quantitation Limit

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Project:

Fasken Denton SWD Mainline

Work Order:

1007294

1 toletti								WIOW	Oruci.	1007294
Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: /	Anions									
Sample ID: MB		MBLK			Batch ID:	R39734	Analysi	is Date:	7/9/2010	2:15:51 PM
Chloride	ND	mg/L	0.50							
Sample ID: LCS		LCS			Batch ID:	R39734	Analysi	s Date:	7/9/2010	2:33:15 PM
Chloride	4.989	mg/L	0.50	5 0	99.8	90	110			

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit

- H · Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Analyte	Result	Units	PQL	SPK Va	SPK re	f %Rec L	owLimit H	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B:	VOLATILES			,							
Sample ID: 1007294-01a msd	, or will be	MSD				Batch ID:	R39839	Analys	is Date:	7/15/2010	6:19:11 A
Benzene	17.30	µg/L	1.0	20	0	86.5	75.7	118	1.31	15	
Toluene	22.49	µg/L	1.0	20	0	112	80.1	114	1.39	15	
Chlorobenzene	21.73	µg/L	1.0	20	0	109	81.5	112	1.80	15	
1,1-Dichloroethene	21.32	µg/L	1.0	20	0	107	77.4	132	7.14	17.8	
Trichloroethene (TCE)	17.30 -	µg/L	1.0	20	0	86.5	61.1	121	2.26	19.8	
Sample ID: 5ml rb		MBLK				Batch ID:	R39839		is Date:	7/14/2010 1	1:02:51 A
Benzene	ND	µg/L	1.0								
Toluene	ND	μg/L	1.0								
Ethylbenzene	ND	μg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND		1.0								
1,2-Dichloroethane (EDC)	ND	μg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	μg/L	2.0								
1-Methylnaphthalene		µg/L									
Part Control of the C	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	μg/L -	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	· µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	μg/L	1.0								
2-Butanone	ND	μg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0						:		East of the
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
,2-Dichlorobenzene	ND	µg/L	1.0								
,3-Dichlorobenzene	ND	μg/L	1.0								
,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
,1-Dichloroethane	ND	µg/L	1.0								
,1-Dichloroethene	ND	µg/L	1.0								
,2-Dichloropropane	ND	µg/L	1.0								
,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

ND

Estimated value

Analyte detected below quantitation limits Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Project: Fasken Denton SWD Mainline

Work Order:

1007294

Project: Fasken Der	nton SWD M							W OIR	Order:	00729
Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec	LowLimit H	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B:	VOLATILES									
Sample ID: 5ml rb		MBLK			Batch ID:	R39839	Analysis	Date:	7/14/2010 11	1:02:51
2,2-Dichloropropane	ND	µg/L	2.0							
1,1-Dichloropropene	ND	µg/L	1.0							
Hexachlorobutadiene	ND	µg/L	1.0							
2-Hexanone	ND	µg/L	10							
sopropylbenzene	ND	µg/L	1.0							
1-Isopropyltoluene	ND	µg/L	1.0							
4-Methyl-2-pentanone	ND	µg/L	10							
Methylene Chloride	ND	µg/L	3.0							
n-Butylbenzene	ND	μg/L	1.0							
n-Propylbenzene	ND	µg/L	1.0							
sec-Butylbenzene	ND	µg/L	1.0							
Styrene	ND	µg/L	1.0							
ert-Butylbenzene	ND	µg/L	1.0							
1,1,1,2-Tetrachioroethane	ND	µg/L	1.0							
,1,2,2-Tetrachloroethane	ND	µg/L	2.0							
etrachloroethene (PCE)	ND	µg/L	1.0							
rans-1,2-DCE	ND	µg/L	1.0							
rans-1,3-Dichloropropene	ND	µg/L	1.0							
,2,3-Trichlorobenzene	ND	µg/L	1.0							
,2,4-Trichlorobenzene	ND	µg/L	1.0							
,1,1-Trichloroethane	ND	µg/L	1.0							
,1,2-Trichloroethane	ND	µg/L	1.0							
richloroethene (TCE)	ND	µg/L	1.0							
richlorofluoromethane	ND	µg/L	1.0							
,2,3-Trichloropropane	ND	µg/L	2.0							
inyl chloride	ND	µg/L	1.0							
lylenes, Total	ND	µg/L	1.5							
ample ID: 100ng lcs		LCS			Batch ID:	R39839	Analysis	Date:	7/14/2010 11:	59:15 A
Senzene	21.14	µg/L	1.0	20 0	106	82.4	116			
oluene	23.30	µg/L	1.0	20 0	116	89.5	123			
hlorobenzene	22.32	µg/L	1.0	20 0	112	87.8	120			
,1-Dichloroethene	25.37	µg/L	1.0	20 0	127	90.3	138			
richloroethene (TCE)	20.75	µg/L	1.0	20 0	104	64	129			
ample ID: 1007294-01a ms		MS			Batch ID:	R39839	Analysis	Date:	7/15/2010 5:	51:07 A
enzene	17.07	µg/L	1.0	20 0	85.4	75.7	118			
oluene	22.80	µg/L	1.0	20 0	114	80.1	114			S
hlorobenzene	22.13	µg/L	1.0	20 0	111	81.5	112			
1-Dichloroethene	19.85	µg/L	1.0	20 0	99.3	77.4	132			
richloroethene (TCE)	16.91	µg/L	1.0	20 0	84.6	61.1	121			

Qualit	fiers
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E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: roject: Safety & Environmental Solutions Fasken Denton SWD Mainline

Work Order:

1007294

Analyte	Result	Units	PQL	SPK Va SPK ref	ghLimit %RPD	RPDLimit Qual		
Method: SM2540C MOD Sample ID: MB-22995	D: Total Dissolved S	olids MBLK			Batch ID:	22995	Analysis Date:	7/15/2010 3:16:00 PM
Total Dissolved Solids	ND	mg/L	20.0					
Sample ID: LCS-22996	- N	LCS			Batch ID:	22995	Analysis Date:	7/15/2010 3:16:00 PN
Total Dissolved Solids	1009	mg/L	20.0	1000 0	101	80	120	

Qualiflers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS		Date Recei	ved:	7/9/2010
Work Order Number 1007294		Received	by: TLS	1/
A	-1	Sample ID	labels checked	
Checklist completed by:	Dit	. 10	_	Initials
N)	may FodPy	1 4 1 1		
Matrix: Carrier na	ame: <u>FedEx</u>			
Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗆	Not Present	☐ Not Shipped ☐
Custody seals intact on sample bottles?	Yes 🗆	No 🗆	N/A	✓
Chain of custody present?	Yes 🗹	No 🗆		
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗆		
Samples in proper container/bottle?	Yes 🗹	No 🗆		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆		
All samples received within holding time?	Yes 🗹	No 🗌		Number of preserve
Water - VOA vials have zero headspace? No VOA vials	submitted	Yes 🗹	No 🗆	bottles checked for pH;
Water - Preservation labels on bottle and cap match?	Yes	No 🗌	N/A	
Water - pH acceptable upon receipt?	Yes	No 🗀	N/A 🗹	<2 >12 unless noted
Container/Temp Blank temperature?	9.0°	<6° C Accepta		below.
COMMENTS:		If given sufficie	nt time to cool.	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client contacted Date contacted:		Per	son contacted	
Contacted by: Regarding:				
Comments:				
			5k	
3 77.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	1	·	Ve u	
Company Andrew	3		1	
Corrective Action				To the second se
7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				

HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Ana	sel)	no se seid/ DS. _{\$} ((Ges	HPH (C) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	1 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BTEX + MTE BTEX + MTE TPH Method TPH (Method B310 (PNA of	7							Remarks:	
E Standard □ Rush	Project Name:	Faster Deales Sur wintin	Project #:	Fas-10-004	Project Manager:		David Bower	Sampler 7 Sauce 12	Sample Lemberature	Container Preservative Type Type Type Type Type Type Type Typ	y #c! -1							Keceived by: Date Time F	Date T
Client:		Wailing Address: 703 & Cliahan	Hopps, no gyzyo	Phone #: 575-357-0510	Est mounton	ige:	☐ Level 4 (Full Validation)	Accreditation		Matrix Sample Request ID	8/10 0520 H20 MW#1						ate. Time. Relinarishedur.	1 line. Reinfqustar by.	Time: Relinquistred by:



COVER LETTER

Monday, November 15, 2010

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Fasken Denton SWD #1 MW Main Line

Dear Dave Boyer:

Order No.: 1011170

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/3/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Date: 15-Nov-10

CLIENT:

Safety & Environmental Solutions

Lab Order:

1011170

Project:

Fasken Denton SWD #1 MW Main Line

Lab ID:

1011170-01

Client Sample ID: MW#1

nent Sample 1D. 11111111

Collection Date: 11/1/2010 9:30:00 AM

Date Received: 11/3/2010

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS		,			Analyst: SRM
Chloride	38	10	mg/L	20	11/5/2010 8:42:03 AM
PA METHOD 8260: VOLATILES SI	HORT LIST				Analyst: RAA
Benzene	ND	1.0	μg/L	1	11/5/2010 2:16:40 AM
Toluene	ND	1.0	μg/L	1	11/5/2010 2:16:40 AM
Ethylbenzene	ND	1.0	μg/L	1	11/5/2010 2:16:40 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	11/5/2010 2:16:40 AM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	11/5/2010 2:16:40 AM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	11/5/2010 2:16:40 AM
Xylenes, Total	ND	2.0	µg/L	1	11/5/2010 2:16:40 AM
Surr: 1,2-Dichloroethane-d4	100 .	77.7-113	%REC	1 -	11/5/2010 2:16:40 AM
Surr: 4-Bromofluorobenzene	110	76.4-106	S %REC	1	11/5/2010 2:16:40 AM
Surr: Dibromofluoromethane	106	91.6-125	%REC	1	11/5/2010 2:16:40 AM
Surr: Toluene-d8	99.6	92.3-107	%REC	1	11/5/2010 2:16:40 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS
Total Dissolved Solids	820	200	mg/L	1	11/5/2010 11:36:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1 of 1

Date: 15-Nov-10

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Fasken Denton SWD #1 MW Main Line Project:

Work Order: 1011170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec I	owLimit H	ighLimit %RPD	RPDLimit Qual
Method: EPA Method 300.0: A	Inions					,			
Sample ID: MB		MBLK				Batch ID:	R41986	Analysis Date:	11/4/2010 1:50:19 PM
Chloride	ND	mg/L	0.50						
Sample ID: MB		MBLK				Batch ID:	R41986	Analysis Date:	11/5/2010 6:40:08 AM
Chloride	ND	mg/L	0.50						
Sample ID: LCS		LCS				Batch ID:	R41986	Analysis Date:	11/4/2010 2:07:43 PM
Chloride	5.122	mg/L	0.50	5	0	102	90	110	
Sample ID: LCS-B		LCS				Batch ID:	R41986	Analysis Date:	11/5/2010 10:43:57 AN
Chloride	5.237	mg/L	0.50	5	0	105	90	110	
Sample ID: LCSD	0.207	LCSD	0.00			Batch ID:	R41986	Analysis Date:	11/4/2010 4:44:24 PM
Chloride	5.111	mg/L	0.50	5	0	102	90	110	1
						102			
Method: EPA Method 8260: Vo	platiles Short					D-4-1-1D-	D.44005	Analysis Date:	44/5/0040 0 00 00 45
Sample ID: 1011170-01a msd		MSD				Batch ID:	R41965	Analysis Date:	11/5/2010 3:09:08 AN
Benzene	19.18	µg/L	1.0	20	0	95.9	73.1	117 1.87	11.3
Toluene	18.25	μg/L	1.0	20	0	91.3	82.9	109 3.05	11.6
Sample ID: 5ml-rb		MBLK				Batch ID:	R41965	Analysis Date:	11/4/2010 7:52:20 AM
Benzene	ND	µg/L	1.0						
Toluene .	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
,2,4-Trimethylbenzene	ND	µg/L	- 1.0						
,3,5-Trimethylbenzene	ND	μg/L	1.0						
(ylenes, Total sample ID: b3	ND	μg/L <i>MBLK</i>	2.0			Batch ID:	R41965	Analysis Date:	11/4/2010 7:15:06 PM
Lagran Britain						Daten ID.	K41900	Allalysis Date.	11/4/2010 7:15.06 PM
Benzene	ND	µg/L	1.0						
oluene	ND	μg/L	1.0						
thylbenzene	ND	μg/L	1.0						
lethyl tert-butyl ether (MTBE) ,2,4-Trimethylbenzene	ND ND	μg/L μg/L	1.0						
,3,5-Trimethylbenzene	ND	μg/L μg/L	1.0						
ylenes, Total	ND	µg/L	2.0						
ample ID: 100ng lcs	140	LCS	2.0			Batch ID:	R41965	Analysis Date:	11/4/2010 8:45:06 AM
enzene	18.72	µg/L	1.0	20	0	93.6	84.6	109	
oluene	19.75	µg/L	1.0	20	0	98.8	81	114	
ample ID: 100ng lcs		LCS		20	, ,	Batch ID:	R41965	Analysis Date:	11/4/2010 8:07:38 PM
enzene	19.54	µg/L	1.0	20	0	97.7	84.6	109	
oluene	18.66	μg/L μg/L	1.0	20	0	93.3	81	114	
ample ID: 1011170-01a ms	10.00	MS		20		Batch ID:	R41965	Analysis Date:	11/5/2010 2:42:53 AM
enzene	19.54	μg/L	1.0	20	0	97.7	73.1	117	
oluene	17.70			20	0				
Judie	17.70	μg/L	1.0	20	U	88.5	82.9	109	

0			
	110	F123	ers:

Analyte detected below quantitation limits

Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

RPD outside accepted recovery limits

Date: 15-Nov-10

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Project:

Fasken Denton SWD #1 MW Main Line

Work Order:

1011170

Analyte	Resu	ult Units	PQL	SPK Va SPK ref	%Rec Lo	owLimit Hi	RPDLimit Qual	
Method: SM25400	MOD: Total Dissolv	ved Solids						
Sample ID: MB-243	76	MBLK			Batch ID:	24376	Analysis Date:	11/5/2010 11:36:00 AM
Total Dissolved Solid	ND ND	mg/L	20.0					
Sample ID: LCS-24	376	LCS			Batch ID:	24376	Analysis Date:	11/5/2010 11:36:00 AM
Total Dissolved Solids	1028	mg/L	20.0	1000 0	103	80	120	

Qualifiers:

E Estimated value

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS			Date Recei	veu.	11/3/2010
Work Order Number 1011170	111		Received	by: LCD	(Para
(XI)	111 0.	/_	Sample IC	labels checked by	
Checklist completed by:	Tkyfr	Dat	110	-	initiáls J
		1			
Matrix:	Carrier name	: Greyhound			
Shipping container/cooler in good condition?		Yes 🗹	No 🗆	Not Present	
Custody seals intact on shipping container/co	poler?	Yes 🗹	No 🗆	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes	No 🗀	N/A	
Chain of custody present?		Yes 🗹	No 🗆		
Chain of custody signed when relinquished a	nd received?	Yes 🗸	No 🗆		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗆		
Samples in proper container/bottle?		Yes 🗹	No 🗆		
Sample containers intact?		Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?		Yes 🗸	No 🗆		
All samples received within holding time?		Yes 🗹	No 🗌		Number of preserved
Water - VOA vials have zero headspace?	No VOA vials sub	omitted	Yes 🔽	No 🗔	bottles checked for pH:
Water - Preservation labels on bottle and cap	match?	Yes 🗌	No 🗆	N/A 🔽	
Water - pH acceptable upon receipt?		Yes 🗌	No 🗆	N/A	<2 >12 unless noted
Container/Temp Blank temperature?		1.4°	<6° C Accepte	able	below.
COMMENTS:			If given sufficie	nt time to cool.	
Client contacted	Date contacted:		Per	rson contacted	The state of the state of
Contacted by:	Regarding:				
Comments:	-				
Comments.					
	1484				3.1
Corrective Action					
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		a to a			

Venitiquisiled by	Polinanishad hw	Sample Temperature / 40/	Sampler: Char Lines Char Charactel ABH (C) (ABH	□ Level 4 (Full Validation) Mund Boyer (80 as Solution)	HALL ENVIRONMENTAL Www.hallenvironmental.com Hawkins NE - Albuquerque, NM hallenvironmental.com Hawkins NE - Albuquerque, NM hallenvironmental.com Hawkins NE - Albuquerque, NM hallenvironmental.com RCRA 8 Metals RCRA 8 Metals ROB (VOP) ROB 100 (P.O.A.) Analysis Request ROB (VOP) ROB (VO	Genary (8021) BTEX + MTBE + TMB's (8021) A Part	and Time: A Baye A Baye A Baye Type Type	tody Record TIME SERVE Sample Request ID NW # [Chain-of-Cu Client: SES Mailing Address: ZES Phone #: STSC SES CA/QC Package: Date Time Matrix Date Time Matrix Date Time Relinquishes Relinquishes
Marie Jacon Liberto	Keinidusiled of Keinidusiled of Times	Matrix Sample Request ID Container Preservative Type and # Type and # Type (Semi-Volumer) (Semi-	Matrix Sample Request ID Container Type and # Type and # Type Type and # Type Type and # Type and Type Type and Type and Type Type and Type an	Matrix Sampler Sampler Sampler Sampler Sampler Sample Request ID Container Type and # Type an			Date Time		Time: Relinquished by
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Relinanished hv.		Matrix Sample Request ID Type and # Type and # Type and # Type BTEX + MTB BTE	Matrix Sample Request ID Container Preservative Type and # Type and # Type and # Type BEEX + MTBE BED HORS (PLO) ON 10 Preservative BEEX + MTBE BED HORS (PLO) ON 10 Preservative BEEX + MTBE BED HORS (PLO) ON 10 Preservative BED HORS (PLO) ON 10	Sampler: Character American Sampler: Character American Sample Request ID Container Preservative Type and # Type American Container Type BTEX + MTBE + TMB BTEX + MTBE + MTBEX +					
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Relinanished hv.		Matrix Sample Request ID Type and # Type Type Type Type Type Type Type Type	Matrix Sample Request ID Container Preservative Type and # Type BTEX + MTBE BTEN + MTBE BT	Sample: Chare. Matrix Matrix Matrix Matrix Matrix Sample Request ID Container Preservative Type and # Type Type and # Type BTEX + MTBE + TMB Type and # Type Type and # Type Motion (F,Cl,NO ₃ ,NO ₃) BY Pesticides / 8082 MAC/ Type and # Type Motion (F,Cl,NO ₃ ,NO ₃) MAC/ Type and # Type Motion (F,Cl,NO ₃ ,NO ₃) MAC/ M					
Relinanished hv.		Matrix Sample Request ID Container Type and # Type Type BTEX + MTB	Matrix Sample Request ID Container Type and # Type BTEX + MTBE BTE	Sampler Container Preservative Type and # Type Type and					
Relinanished hv.		Matrix Sample Request ID Type and # Type and # Type BTEX + MTB BTE	Matrix Sample Temperature. Matrix Sample Request ID Container Preservative Type and # Type And # Type BTEX + MTBE + BTEX	Sampler: Crace Angueric Container Sample Request ID Type and # Type Angueric Container C					
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Relinatished by:		Matrix Sample Request ID Container Preservative Type and # Type BTEX + MTB BT	Matrix Sample Temperature. 140C Matrix Sample Request ID Container Preservative Type and # Type BTEX + MTBE - BTEX + BTEX + MTBE - BTEX + MTBE - BTEX + MTBE - BTEX + BTE	Sample: Check Container Sample Temperative Container Preservative EDB (Method 504.1) Type and # Type Type and # Type WACK C MACK Type A Matrix Sample Request ID Type and # Type Type and # Type Type and # Type Type and # Type Type A Metals					
Relinatished hv.		Matrix Sample Request ID Container Preservative Type and # Type Type and # Type Type Type Type Type Type Type Type	Matrix Sample Temperature. 140C Matrix Sample Request ID Container Preservative HEARING (PMA or P.) BTEX + MTBE	Sampler: Charching Sampler: Charching Sampler: Charching Sample Request ID Container Preservative HEARING Type and # Type BTEX + MTBE + TPH BTEX + MTBEX + MTB					
Relinquiched hv.		Matrix Sample Request ID Container Preservative Type and # Type Type Type Type Type Type Type Type	Matrix Sample Temperature. 40C Matrix Sample Request ID Container Preservative HEARNO PD	Sampler: Charce Container Sample Request ID Container Preservative Type and # Type A B Metals Type A B	33 33 33 33 34 34 34 34 34 34 34 34 34 3		4 Hcl -1	14/	
470 MW 4 46 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	420 MW 4 1 + HC - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Sample Temperature / //o//	Sampler: Char C	EDB (Method EDB (Method S310 (PNA of Rocka 8 Meta Anions (F,Cl, Anions (F,Cl, S260B (VOA) S270 (Semi-V	BTM + X3T8	Sontainer Preservative Type Type		
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Matrix Sample: Container Container Type and # Typ	Matrix Sample: Character Matrix Matrix Sample: Character Matrix Matrix Sample: Character Matrix	Project Manager: Project Man	□ Level 4 (Full Validation) Project Manager:	Project Manager:	Analysis		\$5-10-004		M
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Container Project # Proj	Container Project # Proj	Tel. 505-345-3975 Fax 505-345-4107	Project #: Tel. 505-345-3975	Project #: Tel. 505-345-3975		4901	Genter Sin #1	dinton	
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Project Name: Project Name:	Project Name:	Project Name: Project Name: Project Name: Project Name: Project Name: Project Name: Project Name: Project Name Project Manager:	Project Name: Project Name: Project Name: Project Manager: Project Manager: Project Manager: Projec	Project Name: Marking Hoursting Project Name: Marking Hoursting Project Haw House Hoursting Project Manager:	ANALYSTS LABORATORY				555 F
SS: 707 C Minds Project Name: Description Matrix Sample Request ID Container Preservative HEEN HIBE HTPH Method 80188 (Gas/Diesel) Type and # Type HEEN HIBE HTPH Method 80188 (Gas/Diesel) HTPH Method 80188 (Gas/Diesel)	The control of the	HALL ENVIRONMENTAL HALL EN	SS: 707 & Uiason Project Name: Project Name: Project Name: Project #: Tel. 505:35 707 & Uiason Project #: Tel. 505:35 707 & Uiason Project Manager: Project Manager: Diesel 4 (Full Validation) Marid Bayer (C. 1880) (C. 1880)	SS: 707 & Grafen Project Name: Habbs, 1997 & Grafen Project #: Tel. 505: F 597-0510 Project Manager: Project Manager:			im-Around Time:		nain-of-Cu



COVER LETTER

Wednesday, January 26, 2011

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Fasken Denton Mainline

Dear Bob Allen:

Order No.: 1101568

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/19/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



CLIENT:

Safety & Environmental Solutions

Lab Order:

1101568

Project:

Fasken Denton Mainline

Lab ID:

1101568-01

Client Sample ID: MW#1

Collection Date: 1/14/2011 8:55:00 AM

Date: 26-Jan-11

Date Received: 1/19/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual U	Jnits	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5	μ	g/L	1	1/20/2011 2:02:18 PM
Benzene	ND	1.0	μ	g/L	1	1/20/2011 2:02:18 PM
Toluene	ND	1.0	μ	g/L	1	1/20/2011 2:02:18 PM
Ethylbenzene	ND	1.0	μ	g/L	1	1/20/2011 2:02:18 PM
Xylenes, Total	ND	2.0	μ	g/L	1	1/20/2011 2:02:18 PM
1,2,4-Trimethylbenzene	ND	1.0	μ	g/L	1	1/20/2011 2:02:18 PM
1,3,5-Trimethylbenzene	ND	1.0	μ	g/L	1	1/20/2011 2:02:18 PM
Surr: 4-Bromofluorobenzene	129	81.3-151	%	REC	1	1/20/2011 2:02:18 PM
PA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	41	10	m	ng/L	20	1/21/2011 7:09:13 AM
M2540C MOD: TOTAL DISSOLVED SOLID	S					Analyst: KS
Total Dissolved Solids	720	200	m	ig/L	1	1/20/2011 5:10:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 26-Jan-11

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Project:

Fasken Denton Mainline

Work Order:

1101568

Analyte	Result	Units	PQL	SPK Val S	PK ref	%Rec L	owLimit Hi	ghLimit %RPD	RPDLimit Qual
Method: EPA Method 300.0: A	Anions								
Sample ID: MB		MBLK				Batch ID:	R43269	Analysis Date:	1/20/2011 2:18:12 PM
Chloride	ND	mg/L	0.50						
Sample ID: MB		MBLK				Batch ID:	R43269	Analysis Date:	1/21/2011 12:02:21 A
Chloride	ND	mg/L	0.50						
Sample ID: LCS		LCS				Batch ID:	R43269	Analysis Date:	1/20/2011 2:29:27 P
Chloride	4.832	mg/L	0.50	5	0	96.6	90	110	
Sample ID: LCS		LCS				Batch ID:	R43269	Analysis Date:	1/21/2011 12:13:35 A
Chloride	4.555	mg/L	0.50	5	0	91.1	90	110	
Method: EPA Method 8021B:	Volatiles								
Sample ID: 5ML RB		MBLK				Batch ID:	R43256	Analysis Date:	1/20/2011 9:02:55 A
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
Sample ID: 400NG BTEX LCS		LCS				Batch ID:	R43256	Analysis Date:	1/20/2011 1:32:10 P
Methyl tert-butyl ether (MTBE)	23.11	μg/L	2.5	20	0	116	75.5	124	
Benzene	21.80	μg/L	1.0	20	0	109	84.7	118	
Toluene	22.47	µg/L	1.0	20	0	112	82	123	
Ethylbenzene	22.18	µg/L	1.0	20	0.	111	83	118	
Xylenes, Total	68.20	µg/L	2.0	60	0	114	85.4	119	
1,2,4-Trimethylbenzene	20.62	µg/L	1.0	20	. 0	103	82.1	113	
1,3,5-Trimethylbenzene	22.40	µg/L	1.0	20	0	112	89.6	119	
Method: SM2540C MOD: Total	Dissolved S								
Sample ID: MB-25303		MBLK				Batch ID:	25303	Analysis Date:	1/20/2011 5:10:00 PM
Total Dissolved Solids	ND	mg/L	20.0						
Sample ID: LCS-25303		LCS				Batch ID:	25303	Analysis Date:	1/20/2011 5:10:00 PM
Total Dissolved Solids	998.0	mg/L	20.0	1000	0	99.8	80	120	

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O		:61	-	~
	1121	ши	er	

E Estimated value

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Analyte detected below quantitation limits

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS			Date Receive	ed:	1/19/2011
Work Order Number 1101568			Received by	: AMG	1.
Checklist completed by	R	1/19/	Sample ID I	abels checked by:	Initials
Signature	4	Date	- La Taranta La		
Matrix:	Carrier name:	Greyhound			
Shipping container/cooler in good condition?		Yes 🗸	No 🗆	Not Present	
Custody seals intact on shipping container/coole	r?	Yes 🗹	No 🗆	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗌	No 🗀	N/A	
Chain of custody present?		Yes 🔽	No 🗆		
Chain of custody signed when relinquished and r	received?	Yes 🗹	No 🗔		
Chain of custody agrees with sample labels?		Yes 🗸	No 🗆	7	
Samples in proper container/bottle?		Yes 🗹	No 🗆		
Sample containers intact?		Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗆		
All samples received within holding time?		Yes 🔽	No 🗆		Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subm	nitted	Yes 🗹	No 🗆	bottles checked for pH:
Water - Preservation labels on bottle and cap ma	tch?	Yes 🗌	No 🗌	N/A 🗹	
Water - pH acceptable upon receipt?		Yes 🗌	No 🗆	N/A	<2 >12 unless noted
Container/Temp Blank temperature?		3.0°	<6° C Acceptab	le	below.
COMMENTS:			If given sufficient	t time to cool.	
Client contacted [Date contacted:		Pers	on contacted	
Contacted by:	Regarding:				
Comments:					
- Commonto.			and the same of the talks and the same of		
		7			3
Corrective Action					
Corrective Action					

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	ENVIRONMENT	5	109	2				-		9	2	Chlorid	7	-	+	+	-	+	-				-			
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Chain-or-Custody Record			E clinton	nou	1	020		Level 4 (Full Validation)				Sample Request ID	1 th MM									3		d		received by:
-or-cu:	N. S.		703	4666	1200		4			□ Other		Matrix	HZO						2		,	透光			Kelinquished by	
nain	5052		Mailing Address:		Phone # 6 %	11.712	email or Fax#:	QA/QC Package: ☐ Standard	itation	AP	□ EDD (Type)	Time	0855		100	7				2.					1540	
	Client:		Mailing		Phone		email	QA/QC Packa ☐ Standard	Accreditation	O NELAP	□ EDL	Date	Mulh			6 ,								1	1/1/1	45



COVER LETTER

Tuesday, May 03, 2011

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Denton SWD Main Line

Dear Bob Allen:

Order No.: 1104949

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 4/27/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 03-May-11

CLIENT:

Safety & Environmental Solutions

Lab Order:

1104949

Project:

Denton SWD Main Line

Lab ID:

1104949-01

Client Sample ID: MW-1

Collection Date: 4/26/2011 9:50:00 AM

Date Received: 4/27/2011

Matrix: AQUEOUS

Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5	µg/L	1	4/29/2011 4:31:28 PM
Benzene	ND	1.0	µg/L	1	4/29/2011 4:31:28 PM
Toluene	ND	1.0	μg/L	1	4/29/2011 4:31:28 PM
Ethylbenzene	ND	1.0	μg/L	1	4/29/2011 4:31:28 PM
Xylenes, Total	ND	2.0	μg/L	1	4/29/2011 4:31:28 PM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	4/29/2011 4:31:28 PM
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	4/29/2011 4:31:28 PM
Surr: 4-Bromofluorobenzene	102	96.8-145	%REC	1	4/29/2011 4:31:28 PM
PA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	38	10	mg/L	20	4/27/2011 10:40:43 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst: KS
Total Dissolved Solids	540	100	mg/L	1	5/1/2011 5:27:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Date: 03-May-11

QA/QC SUMMARY REPORT

Client:

Safety & Environmental Solutions

Project:

Denton SWD Main Line

Work Order:

1104949

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit %RPD	RPDLimit Qual
Method: EPA Method 300.0: A	nions								
Sample ID: LCS		LCS				Batch ID:	R45012	Analysis Date:	4/28/2011 4:46:26 AN
Chloride	4.993	mg/L	0.50	5	0	99.9	90	110	
Method: EPA Method 8021B: \	/olatiles								
Sample ID: 5ML RB		MBLK				Batch ID:	R45059	Analysis Date:	4/29/2011 8:29:49 AM
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	μg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0		,				
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R45059	Analysis Date:	4/29/2011 12:00:45 PN
Methyl tert-butyl ether (MTBE)	22.58	µg/L	2.5	20	0	113	97.6	132	
Benzene	22.94	µg/L	1.0	20	0	115	93.4	120	
Toluene	23.13	µg/L	1.0	20	0.14	115	96.2	122	
Ethylbenzene	21.97	µg/L	1.0	20	0.11	109	95	121	
Kylenes, Total	67.37	µg/L	2.0	60	0	112	97.6	122	
1,2,4-Trimethylbenzene	19.22	μg/L	1.0	20	0.144	95.4	86.1	113	
1,3,5-Trimethylbenzene	20.73	µg/L	1.0	20	0	104	94.9	123	
Method: SM2540C MOD: Total	Dissolved S	Solids							
Sample ID: MB-26598		MBLK				Batch ID:	26598	Analysis Date:	5/1/2011 5:27:00 PM
Total Dissolved Solids	ND	mg/L	20.0						
Sample ID: LCS-26598		LCS				Batch ID:	26598	Analysis Date:	5/1/2011 5:27:00 PM
Total Dissolved Solids	1028	mg/L	20.0	1000	0	103	80	120	

0				

E Estimated value

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS				Date Rece	ived:		4/27/2011
Work Order Number 1104949				Received	by: MMG		1.0
Checklist completed by:	A	4	27 Date	Sample II	D labels checked	by:	Initials
Matrix:	Carrier name:	UPS	2		,		
Shipping container/cooler in good condition?		Yes	V	No 🗆	Not Present		
Custody seals intact on shipping container/coole	er?	Yes	V	No 🗌	Not Present		Not Shipped
Custody seals intact on sample bottles?		Yes		No 🗆	N/A	V	
Chain of custody present?		Yes	V	No 🗆			
Chain of custody signed when relinquished and	received?	Yes	V	No 🗌			
Chain of custody agrees with sample labels?		Yes	V	No 🗆			
Samples in proper container/bottle?		Yes		No 🗌			
Sample containers intact?		Yes	V	No 🗌			
Sufficient sample volume for indicated test?		Yes	V	No 🗌			
All samples received within holding time?		Yes	V	No 🗆			Number of preserve
Water - VOA vials have zero headspace?	No VOA vials subn	nitted		Yes 🗸	No 🗔		bottles checked for pH:
Water - Preservation labels on bottle and cap m	atch?	Yes		No 🗌	N/A		
Water - pH acceptable upon receipt?		Yes		No 🗌	N/A		<2 >12 unless noted
Container/Temp Blank temperature?		1.	.0°	<6° C Accept	able ent time to cool.		below.
COMMENTS:							
		7					
Client contacted	Date contacted:	1177		Pe	erson contacted		
Contacted by:	Regarding:						
Comments:							
							2 4
Mar dig et	•			- 4			
- Miles Handler of	*						Manual Comment
							The state of the state of
Corrective Action							8.4
	/.4************************************				44		100
		., 1*		This is	-11		
	4						-

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerane, NM 87109	Tel 505-345-3975 Fax 505-345-4107	Analysis	(le	Sel(bCl [†] Oc	5B (G; 3.1) 4.1) 4.00 ₂ ,E 8082	108 108 109 103 103 109 108 108 109 109 109 109 109 109 109 109 109 109	Method (Method (Method (PNA or (PNA or (PNA or (P,CI,I (P,CI,I (Semi-V	TPH TPH 8310 RCR Anion EDB 8270	X 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3							Dake Time
Tum-Around Time:	1	Design Scale	LAIN LINE		JA45-10-004	11/2/	000				Pre	lype BTE	1,						William Remarks:	Received by: Dake Time
	Satery + Environmental	Willia Address	Malling Address: 703 E. Clinton	GOBIZ, N.W. 8824U	Phone #: 575-397-0510	- 7	QA/QC Package:	☐ Standard ☐ Level 4 (Full Validation)	Accreditation		Date Time Matrix Sample Request ID		04/26 0950 140 Muss-1						Time: Relinquierfed by: [Date: Time: Retringuished by: Received by:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 19, 2012

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 390-7067

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Denton SWA Main Line

OrderNo.: 1201378

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/13/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1201378

Date Reported: 1/19/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Denton SWA Main Line

Collection Date: 12/16/2011 10:20:00 AM

Lab ID: 1201378-001 Matrix: AQUEOUS Received Date: 1/13/2012 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES				6-1		Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5	Н	μg/L	1	1/17/2012 4:46:48 AM
Benzene	ND	1.0	Н	µg/L	1	1/17/2012 4:46:48 AM
Toluene	ND	1.0	Н	µg/L	1	1/17/2012 4:46:48 AM
Ethylbenzene	ND	1.0	Н	µg/L	1	1/17/2012 4:46:48 AM
Xylenes, Total	ND	2.0	Н	µg/L	1	1/17/2012 4:46:48 AM
1,2,4-Trimethylbenzene	ND	1.0	Н	μg/L	1	1/17/2012 4:46:48 AM
1,3,5-Trimethylbenzene	ND	1.0	Н	µg/L	1	1/17/2012 4:46:48 AM
Surr: 4-Bromofluorobenzene	98.6	76.5-115	H	%REC	1	1/17/2012 4:46:48 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	36	10	Н	mg/L	20	1/16/2012 1:44:37 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS					Analyst: KS
Total Dissolved Solids	522	40.0	Н	mg/L	1	1/18/2012 7:03:00 AM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 2 of 5

Client:

Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

WO#: 1201378

19-Jan-12

Denton SWA Main Line Project: Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: Batch ID: R407 RunNo: 407 Prep Date: Analysis Date: 1/16/2012 SeqNo: 11949 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.50 Chloride Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R407 RunNo: 407 Prep Date: Analysis Date: 1/16/2012 SeqNo: 11950 Units: mg/L SPK value SPK Ref Val %REC LowLimit Analyte Result PQL %RPD **RPDLimit** HighLimit Qual 0.50 5.000 Chloride 4.8 0 96.4 110 Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R407 RunNo: 407 Prep Date: Analysis Date: 1/16/2012 SeqNo: 12005 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R407 RunNo: 407 Prep Date: Analysis Date: 1/16/2012 SeqNo: 12006 Units: mg/L Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.000 Chloride 4.6 0.50 92.3 110

Qualifiers:

- Value exceeds Maximum Contaminant Level. */X
 - Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank B
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201378

19-Jan-12

Client:

Safety & Environmental Solutions

Project:

Denton SWA Main Line

Sample ID 5ML-RB Client ID: PBW		Type: ME			tCode: El		8021B: Volat	iles		
Prep Date:	Analysis [Date: 1/	16/2012	8	SeqNo: 1	2097	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Kylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		104	76.5	115			

Sample ID 100NG BTEX LO	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		Marie To
Client ID: LC\$W	Batch	n ID: R4	10	F	RunNo: 4	10				
Prep Date:	Analysis D)ate: 1/	16/2012		SeqNo: 1	2101	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	115	44.7	148			11
Benzene	20	1.0	20.00	0	99.3	80	120			
Toluene	20	1.0	20.00	0	97.7	80	120			
Ethylbenzene	19	1.0	20.00	0	95.3	80	120			
Xylenes, Total	58	2.0	60.00	0	97.1	78.6	121			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	92.8	75.1	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	95.0	76.4	122			
Surr: 4-Bromofluorobenzene	22		20.00		108	76.5	115			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201378

19-Jan-12

Client:

Safety & Environmental Solutions

Project:

Denton SWA Main Line

Sample ID MB-296

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW

Batch ID: 296

RunNo: 424

Prep Date: 1/16/2012

SeqNo: 12289

Units: mg/L **HighLimit**

%RPD

Analysis Date: 1/18/2012

%RPD **RPDLimit**

Total Dissolved Solids

Result PQL ND 20.0

Sample ID LCS-296 Client ID: LCSW

SampType: LCS Batch ID: 296

TestCode: SM2540C MOD: Total Dissolved Solids

RunNo: 424

Prep Date: 1/16/2012

Analysis Date: 1/18/2012

SeqNo: 12290

Units: mg/L

Analyte

PQL SPK value SPK Ref Val %REC

1,000

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Total Dissolved Solids

1,030 20.0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Com	ed by: pleted By:	Lindsay Mangin	1/13/2012 9:	40:00 AM						
Revie	,							0	makey Herings D	
	ewed By:		1/13/2012 10):52:42 AM				0	ineaboy Hongs	
Chai		MG/13/12								
Criar	n of Cus	stady								
	-*	· ·			.,		Ma		Not December	
	Were seals				Yes		No		Not Present ✓	
		Custody complete?			Yes	. •	No		Not Present	
3.	How was th	ne sample delivered?			Cour	ier				
Log	<u>In</u>						1.			
4.	Coolers are	e present? (see 19. for coole	er specific informati	ion)	Yes	v	No		NA	
5.	Was an atte	empt made to cool the sam	ples?		Yes	~	No		NA	
6.	Were all sa	mples received at a temper	ature of >0° C to 6	6.0°C	Yes	~	No		NA	
7.	Sample(s) i	in proper container(s)?			Yes	~	No			
		ample volume for indicated	test(s)?		Yes	~	No			
4		es (except VOA and ONG) p		,	Yes	V.				
		rvative added to bottles?	ropolity processors		Yes		No	V	NA	
11.	Is the head	space in the VOA vials less	than 1/4 inch or 6	mm?	Yes	~	No		No VOA Vials	
12.	Were any s	sample containers received	broken?		Yes		No	V		
		rwork match bottle labels? epancies on chain of custod	y)		Yes	v	No		# of preserve bottles check for pH:	
14.	Are matrice	es correctly identified on Cha	ain of Custody?		Yes	~	No			(<2 or >12 unless noted
15.	ls it clear w	hat analyses were requeste	d?		Yes	~	No		Adjuste	d?
		Iding times able to be met? customer for authorization.			Yes		No	V	Checked	d by:
Spec	ial Hand	lling (if applicable)								
	7.3	notified of all discrepancies	with this order?		Yes		No		NA 🗸	
	Person	n Notified:	A. IAT's Did not been been been been been been been bee	Date:	A A PARTICIPATION OF THE PARTI		Care ta a Referen	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR	Total State	
	By Wh	nom:	The state of the s	Via:	eMai	il	Ph	none	Fax In Pers	on
	Regar	ding:		A CONTRACTOR OF THE PARTY OF TH	A THE PERSON NAMED IN	2207 1203494	plat marks			
	Client	Instructions:								
18.	Additional r	emarks:								
	CLIEN	IT IS AWARE SAMPLES W	ERE SENT OUT C	OF HOLD A	ND NO	TEI	O IN	THE	"REMARKS" ON CO	C TO ANALYZE OUT OF
19. 9	Cooler Info	1	Seal Intact Se	al No S	eal Da	te		Signe	ed By	

Rush Charach MARING LINGS- 490	Preservative Type Type (YOA) Type (YOA) Type Type (YOA) Type Type (YOA) Type Type (YOA)	日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日						Time: Relinquished by: Received by: Receive
Turn-Around Time: Standard Project Name: Swr Project #:	Sampler: 35 Sample	1						Received by:
Client: Mycay of Children Merring Address: 703 E. Charren (Abbs, N.W. 8/140) Phone #: 575-397-0570	email or Fax#: QA/QC Package: Ig/Standard Accreditation In EDD (Type) Date Time Matrix Sample Request ID	11-11 1820 the Mars 1-1						Date: Time: Reinquished by: V1 U (560 577 Ev. Date: Time: Reinquished by:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 14, 2012

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 390-7067 FAX (575) 393-4388

RE: Faskin Denton SWD #1 OrderNo.: 1203154

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/6/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Faskin Denton SWD #1

Collection Date: 3/5/2012 8:38:00 AM

Lab ID: 1203154-001

Matrix: AQUEOUS Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5	μg/L	1	3/6/2012 11:28:40 PM
Benzene	ND	1.0	μg/L	1	3/6/2012 11:28:40 PM
Toluene	ND	1.0	µg/L	1	3/6/2012 11:28:40 PM
Ethylbenzene	ND	1.0	μg/L	1	3/6/2012 11:28:40 PM
Xylenes, Total	ND	2.0	µg/L	1	3/6/2012 11:28:40 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	3/6/2012 11:28:40 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	3/6/2012 11:28:40 PM
Surr: 4-Bromofluorobenzene	87.6	76.5-115	%REC	1	3/6/2012 11:28:40 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	110	10	mg/L	20	3/6/2012 9:16:33 PM
SM2540C MOD: TOTAL DISSOLVED SOI	LIDS				Analyst: KS
Total Dissolved Solids	694	40.0	mg/L	1	3/13/2012 9:05:00 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Faskin Denton SWD #1

Lab ID: 1203154-002

Project:

Client Sample ID: MW-2

Collection Date: 3/5/2012 8:55:00 AM **Received Date:** 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES			9			Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/6/2012 11:58:54 PM
Benzene	ND	1.0		μg/L	1	3/6/2012 11:58:54 PM
Toluene	ND	1.0		μg/L	1	3/6/2012 11:58:54 PM
Ethylbenzene	ND	1.0		μg/L	1	3/6/2012 11:58:54 PM
Xylenes, Total	ND	2.0		µg/L	1	3/6/2012 11:58:54 PM
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	3/6/2012 11:58:54 PM
1,3,5-Trimethylbenzene	ND	1.0		μg/L	1	3/6/2012 11:58:54 PM
Surr: 4-Bromofluorobenzene	72.9	76.5-115	S	%REC	1	3/6/2012 11:58:54 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	720	25		mg/L	50	3/7/2012 5:04:20 PM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analyst: KS
Total Dissolved Solids	1,750	40.0		mg/L	1	3/13/2012 9:05:00 AM

Matrix: AQUEOUS

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 2 of 9

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-3

Project: Faskin Denton SWD #1

Collection Date: 3/5/2012 9:25:00 AM

Lab ID: 1203154-003

Matrix: AQUEOUS Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					1	Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		μg/L	1	3/7/2012 12:29:03 AM
Benzene	ND	1.0		μg/L	1	3/7/2012 12:29:03 AM
Toluene	ND	1.0		μg/L	1	3/7/2012 12:29:03 AM
Ethylbenzene	ND	1.0		μg/L	1	3/7/2012 12:29:03 AM
Xylenes, Total	ND	2.0		μg/L	1	3/7/2012 12:29:03 AM
1,2,4-Trimethylbenzene	ND	1.0		μg/L	1	3/7/2012 12:29:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
Surr: 4-Bromofluorobenzene	85.0	76.5-115		%REC	1	3/7/2012 12:29:03 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	49	10		mg/L	20	3/6/2012 10:06:12 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS					Analyst: KS
Total Dissolved Solids	428	40.0		mg/L	. 1	3/13/2012 9:05:00 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Trip Blank

Project: Faskin Denton SWD #1

Collection Date:

Lab ID: 1203154-004

Matrix: TRIP BLANK Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES	4	7.42			Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5	μg/L	1	3/7/2012 12:59:21 AM
Benzene	ND	1.0	μg/L	1	3/7/2012 12:59:21 AM
Toluene	ND	1.0	μg/L	1	3/7/2012 12:59:21 AM
Ethylbenzene	ND	1.0	μg/L	1	3/7/2012 12:59:21 AM
Xylenes, Total	ND	2.0	μg/L	1	3/7/2012 12:59:21 AM
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/7/2012 12:59:21 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	3/7/2012 12:59:21 AM
Surr: 4-Bromofluorobenzene	90.2	76.5-115	%REC	1	3/7/2012 12:59:21 AM

Qualifiers:

- X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203154

14-Mar-12

Client:

Safety & Environmental Solutions

Project:

Faskin Denton SWD #1

Sample ID IND		Sample	ID	MB
---------------	--	--------	----	----

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBW** Batch ID: R1302

Result

RunNo: 1302

Prep Date:

Analysis Date: 3/6/2012

SeqNo: 36892

Units: mg/L

Analyte

PQL

HighLimit

%RPD

RPDLimit Qual

Chloride

0.50 ND

Sample ID LCS

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 1302

SPK value SPK Ref Val %REC LowLimit

90

LowLimit

LowLimit

Client ID: LCSW

Batch ID: R1302

Units: mg/L

Prep Date:

Analysis Date: 3/6/2012

SeqNo: 36893

%RPD

Qual

Analyte Chloride

PQL 4.7 0.50 SPK value SPK Ref Val 5.000 0

SPK value SPK Ref Val %REC

13.32

13.32

5.000

5.000

5.000

%REC LowLimit 93.3

HighLimit 110 **RPDLimit**

Sample ID 1203142-001BMS

BatchQC

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date: Batch ID: R1302

RunNo: 1302

Units: mg/L **HighLimit**

Analysis Date: 3/6/2012 PQL

SeqNo: 36895

101

RPDLimit

Qual

Qual

Analyte Chloride

Result 18 0.50

TestCode: EPA Method 300.0: Anions

%RPD

%RPD

1.03

Sample ID 1203142-001BMSD Client ID: **BatchQC**

Batch ID: R1302

RunNo: 1302

Prep Date:

Analysis Date: 3/6/2012

SampType: MSD

Analyte

Result PQL SPK value SPK Ref Val

SeqNo: 36896 %REC

Units: mg/L HighLimit

RPDLimit

20

Chloride

0.50 SampType: MBLK

TestCode: EPA Method 300.0: Anions

Sample ID MB Client ID: **PBW**

Batch ID: R1343 Analysis Date: 3/7/2012

RunNo: 1343

Units: mg/L

Analyte

Prep Date:

PQL Result

SeqNo: 37935

%RPD

Chloride

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit Qual

ND 0.50

TestCode: EPA Method 300.0: Anions

Sample ID LCS Client ID: LCSW

SampType: LCS Batch ID: R1343 Analysis Date: 3/7/2012

RunNo: 1343

SeqNo: 37936

TestCode: EPA Method 300.0: Anions

Units: mg/L

RPDLimit

Qual

Qual

Analyte Chloride

Prep Date:

Client ID:

Prep Date:

4.8 0.50

Analysis Date: 3/7/2012

PQL

0.50

Result

Result

ND

SPK value SPK Ref Val %REC 95.7

SPK value SPK Ref Val %REC LowLimit

LowLimit **HighLimit**

Sample ID MB

PBW

SampType: MBLK Batch ID: R1343

RunNo: 1343

SeqNo: 37979

Units: mg/L

HighLimit

%RPD

%RPD

RPDLimit

Analyte Chloride

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203154

14-Mar-12

Client:

Safety & Environmental Solutions

Project:

Faskin Denton SWD #1

Sample ID LCS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSW

Batch ID: R1343

0.50

RunNo: 1343

Prep Date:

Analysis Date: 3/7/2012

SeqNo: 37980

Units: mg/L

Analyte

Result PQL

SPK value SPK Ref Val

I %REC LowLimit

HighLimit

%RPD

RPDLimit C

Qual

Chloride

4.7

5.000

0

93.8

90 110

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203154

14-Mar-12

Client:

Safety & Environmental Solutions

Project:

Faskin Denton SWD #1

Sample ID 5ML-RB	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batcl	n ID: R1	309	F	RunNo: 1	309						
Prep Date:	Analysis D	Date: 3/	6/2012	5	SeqNo: 3	7100	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (MTBE)	ND	2.5				d'a			191	1.5		
Benzene	ND	1.0										
oluene	ND	1.0										
Ethylbenzene	ND	1.0										
(ylenes, Total	ND	2.0										
,2,4-Trimethylbenzene	ND	1.0										
,3,5-Trimethylbenzene	ND	1.0										
Surr: 4-Bromofluorobenzene	19		20.00		94.3	76.5	115					

Sample ID 100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSW	Batch	ID: R1	309	F	RunNo: 1	309				
Prep Date:	Analysis D	ate: 3/	6/2012	8	SeqNo: 3	7148	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	115	50.5	158			7
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	110	80	120			
Xylenes, Total	67	2.0	60.00	0	111	80	120			
1,2,4-Trimethylbenzene	22	1.0	20.00	0	112	80	120			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	112	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		97.2	76.5	115			

Sample ID 1203147-001A M	SampT	ype: MS	3	TestCode: EPA Method 8021B: Volatiles									
Client ID: BatchQC	Batch	ID: R1	309	1	RunNo: 1	309							
Prep Date:	Analysis D	ate: 3/	6/2012		SeqNo: 3	7149	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Methyl tert-butyl ether (MTBE)	22	2.5	20.00	0	109	58	139			12 12			
Benzene	20	1.0	20.00	0	98.0	70.1	118						
Toluene	20	1.0	20.00	0	102	72.3	117						
Ethylbenzene	20	1.0	20.00	0	99.8	73.5	117						
Xylenes, Total	61	2.0	60.00	0	102	73.1	119						
1,2,4-Trimethylbenzene	19	1.0	20.00	0.2140	96.4	65.8	121						
1,3,5-Trimethylbenzene	20	1.0	20.00	0	101	71.1	118						
Surr: 4-Bromofluorobenzene	20		20.00		97.8	76.5	115						

Sample ID	1203147-001A MS	D SampType	: MSD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	BatchQC	Batch ID:	R1309	F	RunNo: 1	309				
Prep Date:		Analysis Date:	3/6/2012		SeqNo: 3	7150	Units: µg/L			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203154

14-Mar-12

Client:

Safety & Environmental Solutions

Project:

Faskin Denton SWD #1

Sample ID 1203147-001A N	ISD Samp	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batcl	n ID: R1	309	, , ,	RunNo: 1	309				
Prep Date:	Analysis D	Date: 3/	6/2012	\$	SeqNo: 3	7150	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	114	58	139	3.93	15.2	
enzene	20	1.0	20.00	0	100	70.1	118	2.47	16.4	
oluene	21	1.0	20.00	0	105	72.3	117	2.57	13.9	
thylbenzene	21	1.0	20.00	0	103	73.5	117	2.84	13.5	
ylenes, Total	63	2.0	60.00	0	104	73.1	119	2.32	12.9	
,2,4-Trimethylbenzene	20	1.0	20.00	0.2140	97.9	65.8	121	1.49	13.5	
,3,5-Trimethylbenzene	21	1.0	20.00	0	104	71.1	118	3.22	13.7	
Surr: 4-Bromofluorobenzene	20		20.00		99.6	76.5	115	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203154

14-Mar-12

Client:

Safety & Environmental Solutions

Project:

Faskin Denton SWD #1

Sample ID MB-1029

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW

Batch ID: 1029

RunNo: 1423

Prep Date: 3/9/2012

Analysis Date: 3/13/2012

SegNo: 40027

Units: mg/L

Result PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Total Dissolved Solids

ND

SampType: LCS

20.0

RunNo: 1423

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW

Sample ID LCS-1029

Batch ID: 1029

SeqNo: 40028

Units: mg/L

Analyte

Prep Date:

Analysis Date: 3/13/2012

LowLimit

HighLimit

%RPD

Qual

Total Dissolved Solids

3/9/2012

PQL 1,010 20.0 SPK value SPK Ref Val 1,000 0

%REC 101

80

RPDLimit

Sample ID 1203275-001BMS

SampType: MS

TestCode: SM2540C MOD: Total Dissolved Solids

120

Client ID: BatchQC

Batch ID: 1029

RunNo: 1423

Units: mg/L

%RPD

Analyte

Prep Date: 3/9/2012 Analysis Date: 3/13/2012

SampType: MSD

SPK value SPK Ref Val

SPK value SPK Ref Val

1,000

1,000

SeqNo: 40041 %REC

102

HighLimit

120

RPDLimit

Qual

Qual

Total Dissolved Solids

1,460

Result

Result

1,450

TestCode: SM2540C MOD: Total Dissolved Solids

Sample ID 1203275-001BMSD Client ID:

Prep Date:

BatchQC

Batch ID: 1029

PQL

20.0

PQL

20.0

RunNo: 1423

RPDLimit

Analyte **Total Dissolved Solids**

3/9/2012

Analysis Date: 3/13/2012

434.0

434.0

SeqNo: 40042 %REC

102

LowLimit

80

LowLimit

80

Units: mg/L HighLimit

120

%RPD 0.344

20

Value exceeds Maximum Contaminant Level.

Value above quantitation range

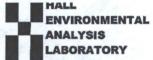
Analyte detected below quantitation limits RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

Page 9 of 9

Reporting Detection Limit



tiau Environmeniai Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions Work Order Number: 1203154 Received by/date. Michelle Concin Michelle Garcia 3/6/2012 9:45:00 AM Logged By: 3/6/2012 10:46:18 AM Completed By: Michelle Garcia Michelle Consid 03/06/12 Reviewed By: Chain of Custody Yes No No Not Present 1. Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes V No NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗌 5. Was an attempt made to cool the samples? NA 🗌 Yes V No 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9. Are samples (except VOA and ONG) properly preserved? Yes No V NA 🗌 10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? Yes V No Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes No NA V 17. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date

HALL ENVIRONMENTAL ANALYSIS LABORATORY	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	([†] O	as/Die	(5.8) (6.8) (4.1) (4.1) (5.8) (5.9) (7.9)	08 I 80 VOA VOA (VOA VOA VOA VOA VOA VOA VOA VOA VOA VOA	BTEX + MITHOD HTD Method Metho	X	*	XI.						Remarks:
e: □ Rush ↑\05\¢\~\	SwD # 1		0-005		Car Ci	P. BMT		Preservative + HEALENo X Type 1303154 BE	K - W	x 2- 74	KL -3 X	X 4-					Day OS for Time Remi
Turn-Around Time:		P. P.	TM3-	M-ConProject Manager:	Taylor)	Sampler:	Sample. Feminerature	Container Type and #	1 4	4 18	1 4		Ma color				Received by: Received by:
Client Swatery of Colours Manner	Mailing Address: 703 E. Chuston	Hobbs MM 8824	Phone #: 575-397-0510	email or Fax#: & bore a sall AM-ConProject Manager:	QA/QC Package: V Standard Level 4 (Full Validation)	n Other	□ EDD (Type)	Date Time Matrix Sample Request ID	1-1m1 12 120 1m1-1	3/05/120855 (Peo pru) - 2	3/05/120925 (A20 MW-3	Trio Blank	-		**		Date: Time: Relinquished by Date: Time: Arefinquished by



May 03, 2012

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: FAS-10-004

Enclosed are the results of analyses for samples received by the laboratory on 04/26/12 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions

Bob Allen 703 East Clinton Hobbs NM, 88240

(575) 393-4388

Fax To:

Received: Reported: 04/26/2012 05/03/2012 FAS-10-004

Project Name: Project Number:

DENTON SWD MAINLINE

Project Location:

HWY 82

Sampling Date: Sampling Type: Sampling Condition:

Water Cool & Intact

Sample Received By:

Jodi Henson

04/26/2012

Sample ID: MW-1 (H200960-01)

BTEX 8260B	mg	/L	Analyze	d By: CMS	i i			- 27	3.
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	05/01/2012	ND	0.022	112	0.0200	7.82	
Toluene*	<0.001	0.001	05/01/2012	ND	0.020	102	0.0200	3.78	
Ethylbenzene*	<0.001	0.001	05/01/2012	ND	0.020	102	0.0200	4.80	
Total Xylenes*	<0.003	0.003	05/01/2012	ND	0.062	103	0.0600	4.40	
Surrogate: Dibromofluoromethane	107	% 59.8-16	51				1		7

Surrogate: Toluene-d8

98.2 % 75.2-115

888% 52 7 120

Chloride, S	M4500CI-B	mg	/L	Analyze	d By: AP					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*		56.0	4.00	04/27/2012	ND	100	100	100	3.92	
TDS 160.1		mg	/L	Analyze	d By: HM		- 4		16.6	1
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*		463	5.00	04/30/2012	ND	220	91.7	240	0.428	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of

Company Name:	Safety & Environmental Sol	Solutions, Inc.	uti	ons	l H	5	100°	265	8	BILL TO	0						ANY	ANALYSIS		REQUEST	CE	ST				П
Project Manager:	Bob Allen						a.	P.O. #:												_						
Address:	703 East Clinton						Ü	Company:	ny:	Same	Je.										7,5					
	State:		Zip: 88240	824	0		A	Attn:																	-	
Phone #:	575-397-0510 Fax#: 575	5-39	-393-4388	138	82		A	Address	in		-									-					_	-
Project #: 74	S-(C-cc4 Project Owner: 75 15 Ec. Cul	Jr: -7	22	165	0	-	Ü	City:										-								
Project Name:	Morter Sulp when	-	Com (Trisides)	F	rid	3	S	State:		Zip:															_	-
Project Location;	Alway 82						P	Phone #:	#;	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				5		-		13								
Sampler Name:	18 18 18 18 18 18 18 18 18 18 18 18 18 1						T	Fax #:						CI				_	_	- 3	-					
FOR LAB USE ONLY	The state of the s				MA	MATRIX	-	PRE	PRESERV.		SAMPLING		3	13												
Lab I.D. H <i>12</i> 00960	Sample I.D.	RMO(3) RO 8AR(8)	# CONTAINERS	GROUNDWATER	MASTEWATER	OIF	SLUDGE :	:32A8\GID\A	OTHER:	DATE		TIME	X-218	5 QL 5 QL 5 QL	707											
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TE: Liebsily an claims includin sevent shalt ca	s exclusive rem se whelsoerer artal damages,	arry delin	d with	g whether dunless fon, bus	or based a made k	in coult	act or to and reci	t, shaft by (wed by (tuse, or	Pardingl Poss of	of the amon within 30 day profits incurre	mi paid by the	letion of the	the c sppficst	93			a 30	days pag	Condition of due at the	ons: Inter the rate o	orest with of 24% p	Terms and Conditions: Interest will be obtained on 30 days past due at the rate of 24% per tithum. Iron and all costs of collections, Including efformsy's tees	rems and Conditions: Inspentive be clearand on all occords more than 30 days past does it the rate of 24% per strates from the originar date of invoice and all costs of collections, including estoratey's teen.	occorrub n	nore then	olos,
er Reling	Sampler Relinquished: Sampler Relinquished: Optoble / Letter Trace		Received By	S Page	IV:	and) Co	2	loon pas	S S S S S S S S S S S S S S S S S S S	and	Received By: Re	Phone Result:	Sulf:	O Yes		28	Add'	Add'l Phone #:	#:							
Relinquished By:	Date:	7 8	Received By:	Z B	4:	3	2	X	3	2	1															
ered Bv.	Delivered Bv; (Circle One) Sampler - UPS - Bus - Other:	Temp.	G 0 7	S S L	Sample Condition Cool Intact Libres Cores	SET	diffion No No		CHEC	KED BY																
Continue de la contin	The second section is a second	Name and Address of the Owner, where	-	Commence.	The Personnelle			-	-	Tonostones.	-	Manufacture Annual Contraction of the local Co	-	-		-	-	-	-	-		-	-	-	and an experience	1

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.