

GW-243

Annual GW Reporting

DATE:
04.04.11



801 South Loop 464
Monahans, Texas 79756

432.943.1100 Fax: 432.943.1101

April 4, 2011

Mr. Edward Hansen
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Annual Groundwater Monitoring Reports
Southern Union Gas Services, Ltd
Boyd Compressor Station (GW-269)
House Compressor Station (GW-243)
Lea County, New Mexico

Mr. Hansen,

Enclosed are the *Annual Groundwater Monitoring Reports* for the following groundwater remediation sites in Lea County, New Mexico:

Boyd Compressor Station (GW-269)
Unit Letter "J", Section 26, Township 22 South, Range 37 East, NMPM

House Compressor Station (GW-243)
Unit Letter "O", Section 11, Township 20 South, Township 38 East, NMPM

I have personally reviewed these documents, prepared by Eco-logical Environmental Services, Inc. on behalf of Southern Union Gas Services, and believe the facts are true and accurate to the best of my knowledge and ability. If you have any questions or comments, please contact me at 432-940-5147 or by email at rose.slade@sug.com.

Respectfully submitted,

A handwritten signature in cursive script that reads "Rose L. Slade".

Rose L. Slade
EHS Compliance Specialist
Southern Union Gas Services, Ltd
rose.slade@sug.com

Cc: Geoffrey R. Leking, NMOCD Hobbs District Office
SUG Environmental Files
Enclosures

RECEIVED OGD
APR - 6 AM 11:56

RECEIVED OCD
2011 APR -6 A 11: 56



Groundwater Investigation
GW-243
Former House Compressor Station
Lea County

March 30, 2011

Prepared For:

New Mexico Oil Conservation Division
1200 South Saint Francis Drive
Santa Fe, New Mexico 87505

On Behalf of:

Southern Union Gas Services
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Prepared By:

Eco-logical Environmental Services, Inc.
2200 Market Street
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GW-243
HOUSE COMPRESSOR SITE
Annual Groundwater Monitoring Report
LEA COUNTY
NEW MEXICO

Date Prepared:

March 30, 2011

Eco-logical Project Number:

1005-3827

Prepared For:

Southern Union Gas Services

Prepared By:

Eco-logical Environmental Services, Inc.

A handwritten signature in black ink, appearing to read 'Aaron Pachlhofer', is written over a horizontal line.

Aaron Pachlhofer, P.G.
Project Manager

Reviewed By:

Scott Springer, P.G.

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INTRODUCTION

Eco-logical Environmental Services, Inc. (Eco-logical), on behalf of Southern Union Gas Services, Ltd (SUGS), prepared this annual report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in the calendar year 2010 and 1st quarter of 2011. SUGS anticipates a "*Soil Remediation Summary, Risk Based Soil Closure Request and Proposed Groundwater Remediation Strategy*" will be submitted to the NMOCD for consideration in the 2nd quarter of 2011. For reference, the Site Location Map is provided as Figure 1. This facility is covered by a New Mexico Discharge Plan and Permit (GW-243)

SITE DESCRIPTION AND BACKGROUND INFORMATION

On July 14, 2008, the New Mexico Oil Conservation Division (NMOCD) conducted a facilities inspection at the House Compressor Station. The facilities inspection was in response to a New Mexico Plan/Permit renewal application submitted by SUGS. In correspondence dated September 10, 2008, the NMOCD requested a timeline for removal of two (2) aboveground storage tanks and a below grade sump tank located on the northwest side and north side of the Compressor Station, respectively.

On October 7, 2008, the two (2) aboveground storage tanks and the below grade sump tank were removed. On October 9, 2008, soil samples were collected from beneath the tanks. The analytical results identified areas of hydrocarbon impact beneath the aboveground tanks

On November 17, 2008, based on the analytical results, Southern Union Gas Services advanced three (3) soil borings (SB-1 through SB-3) at the Compressor Station. Soil boring SB-1 was located beneath the southernmost storage tank, and was advanced to a depth of approximately thirty-five feet below ground surface (bgs). Soil samples were collected and submitted to the laboratory for analysis. The analytical results identified hydrocarbon impact throughout the soil column. Soil boring SB-2 was advanced northeast of the aboveground storage tanks and south of a decommissioned Copper Compressor. The soil boring was advanced to a depth of approximately twenty (20) feet bgs. The analytical results of collected soil samples indicated the soil was non-impacted. Soil boring SB-3 was advanced south of the southernmost aboveground storage tank. The soil boring was advanced to a depth of approximately fifteen (15) feet bgs. The analytical results of collected soil samples indicated the soil was non-impacted. Based on the results of the soil investigation, the installation of monitor wells was warranted.

Following the advancement of soil boring SB-1, a "raw" groundwater sample was collected from the open uncased borehole and submitted for analysis. The groundwater sample was submitted to the laboratory for analysis. The analytical results indicated constituents of BTEX were present in the sample, at levels less than the NMOCD and NMWQCC regulatory levels. The analytical results further indicated elevated levels of chloride were present in the groundwater.

On November 17 and 18, 2008, three (3) monitor wells (MW-1 through MW-3) were installed at the Compressor Station. Monitor well MW-1 was installed northwest of the aboveground storage tanks. The monitor well MW-1 was installed to a depth of approximately forty (40) feet bgs. The analytical results of collected soil samples indicated soils were non-impacted. On November 19, 2008, an initial groundwater sample was collected and submitted to the laboratory for analysis. The analytical results indicated groundwater impact, but less than the NMOCD/NMWQCC regulatory level.

Monitor well MW-2 was installed south of the aboveground storage tanks. The monitor well MW-2 was installed to a depth of approximately forty (40) feet bgs. The analytical results of collected soil samples indicated soils were non-impacted. On November 19, 2008, an initial groundwater sample was collected and submitted to the laboratory for analysis. The analytical results indicated chloride groundwater impact.

Monitor well MW-3 was installed southeast of the aboveground storage tanks. The monitor well MW-3 was installed to a depth of approximately forty (40) feet bgs. The analytical results of collected soil samples indicated soils were non-impacted. On November 19, 2008, an initial groundwater sample was collected and submitted to the laboratory for analysis. The analytical results indicated chloride groundwater impact.

Based on the analytical results of the initial groundwater sampling event, the monitor wells were placed on a quarterly monitoring and sampling schedule.

On November 20, 2008, decommissioned pipelines were removed from the impacted area identified from the soil investigation. On November 26, 2008, excavation of impacted soil identified during the soil investigation began and continued until March 23, 2009. Analytical results of soil samples collected from the excavation sidewalls and floor indicated contaminants greater than the NMOCD/NMWQCC regulatory level remain in the floor and east sidewall of the excavation.

Southern Union Gas Services anticipates a "Remediation Summary and Proposed Soil Closure Strategy" report will be submitted to the NMOCD Santa Fe Office in the 2nd quarter of 2011.

Currently, there are three (3) groundwater monitoring wells (MW1 through MW-3) on-site. Monitor well MW-3 has become obstructed and cannot be sampled. Note that samples from monitor well MW-1 were mislabeled as monitor well MW-3 on March 25, 2010. Since monitor well MW-3 is obstructed, there is no mistake which well the sample was obtained from.

FIELD ACTIVITIES

No PSH was detected in any of the site monitor wells during the reporting period. Monitoring well MW-3 is obstructed and the well cannot be sampled or gauged. Note that samples from monitor well MW-1 were mislabeled as monitor well MW-3 on March 25, 2010. Since monitor well MW-3 is obstructed, there is no mistake which well the sample was obtained from.

The site monitoring wells were gauged and sampled March 25, 2010, July 1, 2010, October 9, 2010 and February 8, 2011. During these sampling events, the monitoring wells were purged of a minimum of three (3) well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon bailers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field.

Locations of the groundwater monitoring wells and the inferred groundwater elevations were constructed from the measurements collected during the quarterly sampling events, and are depicted on Figures 2A through 2D. Groundwater elevation data is provided as Table 1.

Since only two monitoring wells can be gauged and sampled, no gradient can be derived. Historically the gradient at the site has been to the east. The groundwater elevation ranged between 3,538.81 and 3,537.42 feet above mean sea level, in monitor well MW-1 on March 25, 2010 and in monitor well MW-2 on February 8, 2011, respectively.

LABORATORY RESULTS

Groundwater samples collected from the groundwater monitoring wells (MW-1 and MW-2) during the quarterly monitoring events were delivered to Xenco Laboratories, Odessa, Texas, for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. Total Petroleum Hydrocarbons (TPH) by SW846-8015M, Anions by EPA Method 300, Cations by EPA Method SW846-6010B and Total Dissolved Solids (TDS) by EPA Method SM-2540C. A summary of Concentrations of benzene, BTEX and TPH in Groundwater and Concentrations of Anions, Cations and Total Dissolved Solids in Groundwater are presented in Table 2 and Table 3, respectively. Laboratory analytical reports are provided as Appendix A.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate concentrations of benzene, toluene, ethyl-benzene, and xylene were less than the laboratory MDL of 0.001 mg/L during the all four (4) sampling events of the reporting period. Concentrations of benzene, toluene, ethyl benzene and xylene were less than the NMOCD and New Mexico Water Quality Control Commission (NMWQCC) regulatory standards during all four (4) sampling events.

Calcium concentrations ranged from 143 mg/L during the October 2010 sampling event to 132 mg/L during the March 2010 sampling event. Magnesium concentrations ranged from 37.2 mg/L during the October 2011 sampling event to 33.5 mg/L during the March 2010 sampling event. Potassium concentrations ranged from 7.53 mg/L during the July 2010 sampling event to 9.98 mg/L during the October 2010 sampling event. Sodium concentrations ranged from 163 mg/L during the October 2010 sampling event to 138 mg/L during the February 2011 sampling event.

TDS concentrations ranged from 924 mg/l during the February 2011 sampling event to 972 mg/L during the July 2010 sampling event. Analysis for TDS was not requested in March 2010. TDS concentrations did not exceed the NMOCD and NMWQCC regulatory standards of 1,000 mg/L during all three (3) sampling events.

Bromide, Chloride, Fluoride and Sulfate concentrations were analyzed during the October 2010 and February 2011 sampling events. Bromide concentrations ranged from 1.4 mg/L during the October 2010 sampling event less than the laboratory MDL of 5.0 mg/L during the February 2011 sampling event. Chloride concentrations ranged from 186 mg/L during the February 2011 sampling event to 206 mg/L during the October 2010 sampling event. Chloride concentrations did not exceed the NMOCD and NMWQCC regulatory standards during both sampling events. Fluoride concentrations ranged from less than the laboratory MDL of 2.0 mg/L during the February 2011 sampling event to 1.62 mg/L during the October 2010 sampling event. Fluoride concentrations did not exceed the NMOCD and NMWQCC regulatory standards during both sampling events. Sulfate concentrations ranged from 162 mg/L during the February 2011 sampling event to 202 mg/L during the October 2010 sampling event. Sulfate concentrations were less than the NMOCD and NMWQCC regulatory standards during both sampling events.

TPH analysis of groundwater is not generally required by NMOCD or NMWQCC regulations. TPH analysis was requested during all four (4) sampling events of the reporting period. The analytical results indicated TPH concentrations were less than the laboratory MDL during all (4) sampling events of the reporting period.

Note that samples from monitor well MW-1 were mislabeled as monitor well MW-3 on March 25, 2010. Since monitor well MW-3 is obstructed, there is no mistake which well the sample was obtained from.

Monitor well MW-2 is sampled on a quarterly schedule and analytical results indicate concentrations of benzene, toluene, ethyl-benzene, and xylene were less than the laboratory MDL of 0.001 mg/L during the all four (4) sampling events of the reporting period. Concentrations of benzene, toluene, ethyl benzene and xylene were less than the NMOCD and New Mexico Water Quality Control Commission (NMWQCC) regulatory standards during all four (4) sampling events.

Calcium concentrations ranged from 123 mg/L during the October 2010 sampling event to 138 mg/L during the February 2011 sampling event. Magnesium concentrations ranged from 30.0 mg/L during the July 2010 sampling event to 30.6 mg/L during the October 2010 sampling event. Potassium concentrations ranged from 6.05 mg/L during the July 2010 sampling event to 7.22 mg/L during the March 2010 sampling event. Sodium concentrations ranged from 183 mg/L during the July 2010 sampling event to 190 mg/L during the October 2010 sampling event.

TDS was sampled during the July 2010, October 2010 and February 2011 sampling events. TDS concentrations ranged from 914 mg/l during the February 2011 sampling event to 1030 mg/L during the July 2010 sampling event. TDS concentrations were less than the NMOCD and NMWQCC regulatory standards of 1,000 mg/L during the October 2010 and February 2011 events.

Bromide, Chloride, Fluoride and Sulfate concentrations were analyzed during the October 2010 and February 2011 sampling events. Bromide concentrations ranged from less than the laboratory MDL of 5.0 mg/L during the February 2011 sampling event to 1.34 mg/L during the October 2010 sampling event. Chloride concentrations ranged from 194 mg/L during the February 2011 sampling event to 211 mg/L during the October 2010 sampling event. Chloride concentrations were less than the NMOCD and NMWQCC regulatory standards during both sampling events. Fluoride concentrations ranged from less than the laboratory MDL of 2.0 mg/L during the February 2011 sampling event to 1.55 mg/L during the October 2010 sampling event. Fluoride concentrations did not exceed the NMOCD and NMWQCC regulatory standards during both sampling events. Sulfate concentrations ranged from 177 mg/L during the February 2011 sampling event to 211 mg/L during the October 2010 sampling event. Sulfate concentrations were less than the NMOCD and NMWQCC regulatory standards during both sampling events.

TPH analysis of groundwater is not generally required by NMOCD or NMWQCC regulations. TPH analysis was requested during all four (4) sampling events of the reporting period. The analytical results indicated TPH concentrations were less than the laboratory MDL during all (4) sampling events of the reporting period.

Monitor well MW-3 is not sampled due to an obstruction in the casing. The well was gauged during the first two quarters of sampling, however the data is not reliable due to the unknown casing obstruction. Note that samples from monitor well MW-1 were mislabeled as monitor well MW-3 on March 25, 2010. Since monitor well MW-3 is obstructed, there is no mistake which well the sample was obtained from.

SUMMARY

No PSH was detected in any of the site monitor wells during the reporting period.

Currently, there are three (3) groundwater monitoring wells (MW-1 through MW-3) on-site. Due to an obstruction in the casing of monitoring well MW-3, a groundwater gradient cannot be determined. Historically the groundwater gradient has been to the east at this site.

Laboratory analytical results obtained during the February 2011 groundwater sampling event indicated benzene and BTEX constituent concentrations were less than the laboratory MDL, and NMOCD and NMQWCC regulatory standards for the two (2) monitor wells where a sample could be obtained.

Laboratory analytical results obtained during the February 2011 groundwater sampling event indicated TDS concentrations ranged from 924 mg/L (MW-1) to 914 mg/L (MW-2). The analytical results indicate that the concentrations were less than the NMOCD and NMQWCC regulatory standards of 1,000 mg/L.

Laboratory analytical results obtained during the February 2011 groundwater sampling event indicated chloride concentrations ranged from 186 mg/L (MW-1) to 194 mg/L (MW-2). The analytical results indicate that the concentrations were less than the NMOCD and NMQWCC regulatory standards of 250 mg/L.

Laboratory analytical results obtained during the February 2011 groundwater sampling event indicated fluoride concentrations were less than the laboratory MDL of 2.0 mg/L in both monitoring wells that were sampled (MW-1) to 2.10 mg/L (MW-4). The laboratory MDL of 2.0 mg/L indicate both monitor wells could exhibit a fluoride concentration which exceeds the NMOCD and NMWQCC regulatory standard of 1.6 mg/L. The analytical results indicate fluoride concentrations are consistent within the aquifer and the fluoride concentrations exhibited may be naturally occurring within the aquifer.

Laboratory analytical results obtained during the February 2011 groundwater sampling event indicated sulfate concentrations ranged from 162 mg/L (MW-1) to 177 mg/L (MW-2). The analytical results indicate both monitor wells exhibit sulfate concentrations less than the NMOCD and NMWQCC regulatory standard of 600 mg/L.

ANTICIPATED ACTIONS

Monitoring well MW-3 will be repaired. Quarterly monitoring and groundwater sampling will continue in the reporting year 2011.

DISTRIBUTION

Copy 1: Edward Hansen
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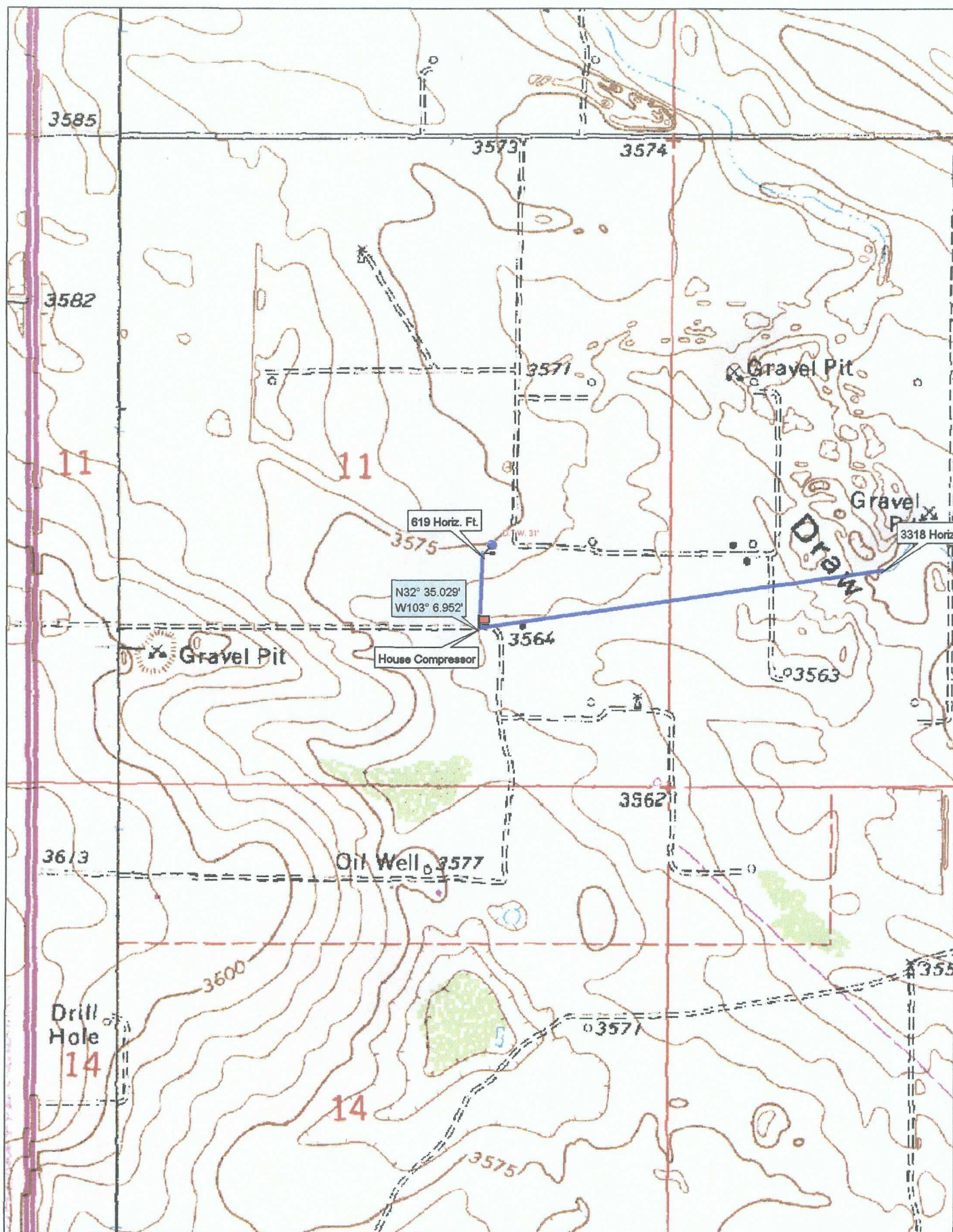
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scott@eco-logical.com

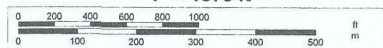
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FIGURES

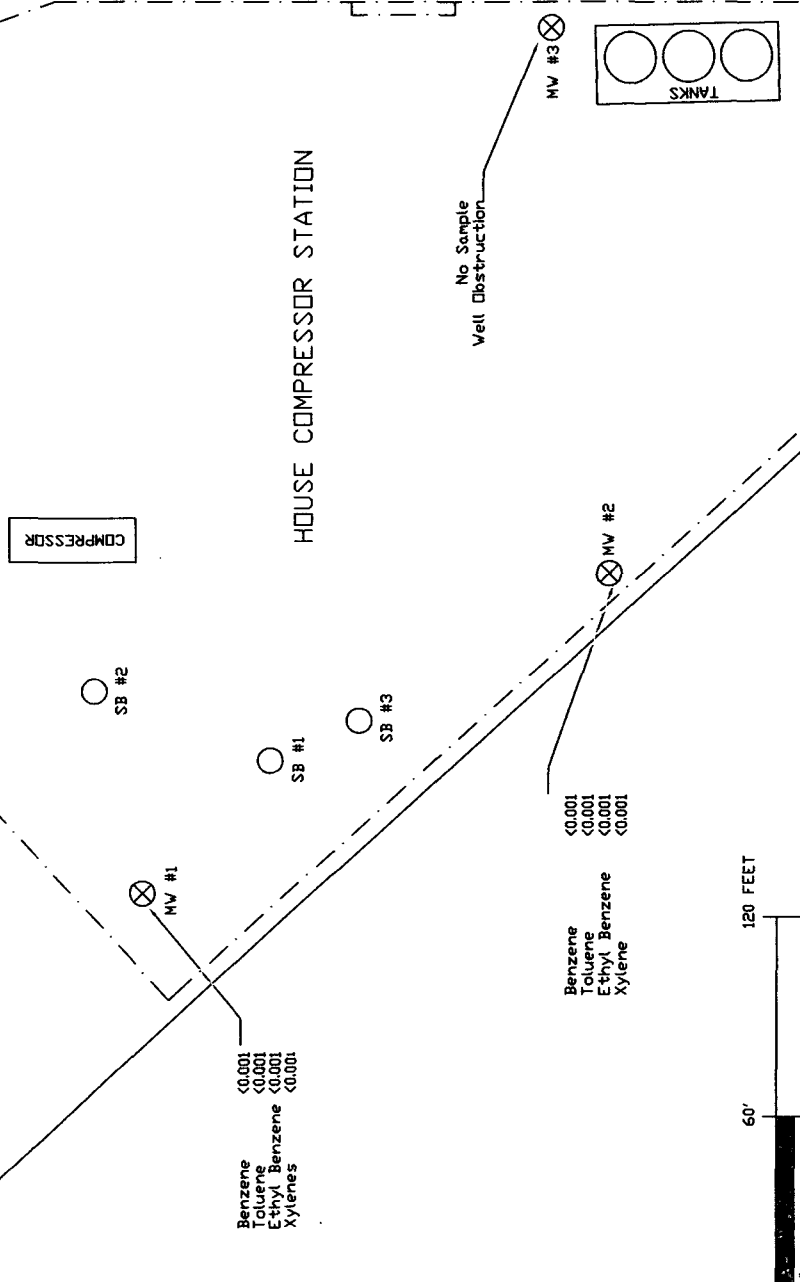
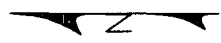


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1" = 1070 ft

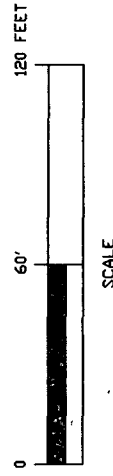


WATER DOG ROAD



Benzene
Toluene
Ethyl Benzene
Xylenes
<0.001
<0.001
<0.001
<0.001

Benzene
Toluene
Ethyl Benzene
Xylene
<0.001
<0.001
<0.001
<0.001



SCALE

General Notes

MONITOR
WELLS IN
SECTION 11,
TOWNSHIP 20
SOUTH,
RANGE 38
EAST,
N.M.P.M., LEA
COUNTY,
NEW MEXICO
BTEX
Concentration
Map
3-25-2010



Project Name and Address
SOUTHERN UNION
GAS SERVICES LTD.
WATER DOG ROAD
HOUSE COMPRESSOR
STATION

Project 1005-3826 Sheet
Date 3-30-2011
Scale

WATER DOG ROAD



Benzene
Toluene
Ethyl Benzene
Xylenes
<0.001
<0.001
<0.001
<0.001

MW #1

SB #2

SB #1

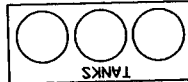
SB #3

HOUSE COMPRESSOR STATION

COMPRESSOR

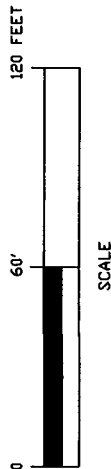
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Well Obstruction

MW #3



MW #2

Benzene
Toluene
Ethyl Benzene
Xylene
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<0.001
<0.001
<0.001



SCALE

General Notes

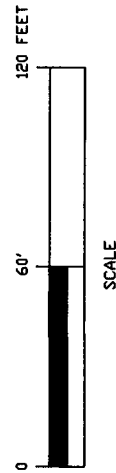
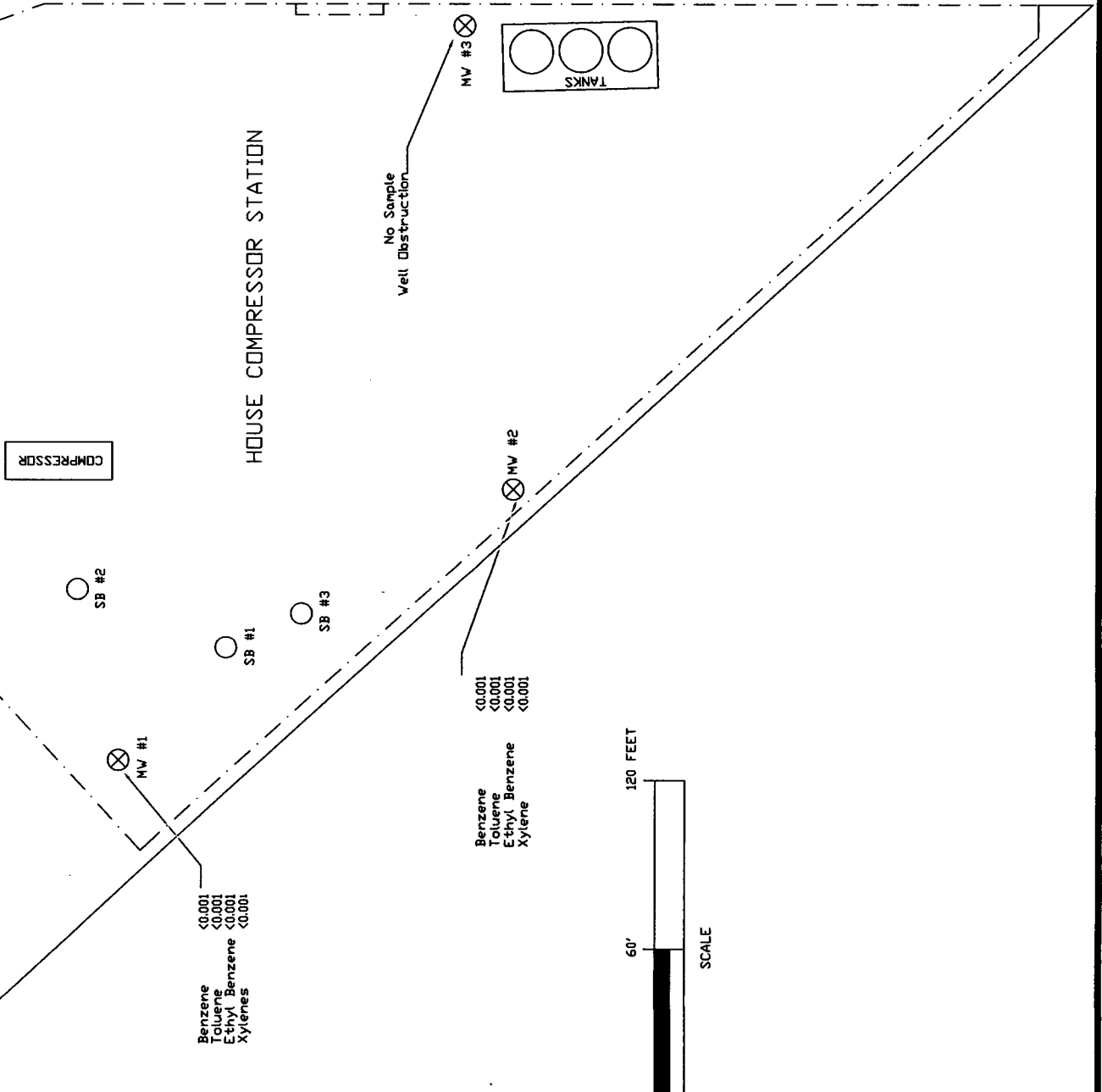
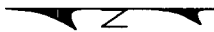
MONITOR
WELLS IN
SECTION 11,
TOWNSHIP 20
SOUTH,
RANGE 38
EAST,
N.M.P.M., LEA
COUNTY,
NEW MEXICO
BTX
Concentration
Map
7-1-2010



Project Name and Address
SOUTHERN UNION
GAS SERVICES LTD.
WATER DOG ROAD
HOUSE COMPRESSOR
STATION

Project
1005-3826 Sheet
Date
3-30-2011
Scale

WATER DOG ROAD



General Notes

MONITOR
WELLS IN
SECTION 11,
TOWNSHIP 20
SOUTH,
RANGE 38
EAST,
N.M.P.M., LEA
COUNTY,
NEW MEXICO

BTEX
Concentration
Map
10-29-2010



Project Name and Address
SOUTHERN UNION
GAS SERVICES LTD.
WATER DOG ROAD
HOUSE COMPRESSOR
STATION

Project 1005-3826 Sheet
Dwg 3-30-2011
Scale

WATER DOG ROAD



COMPRESSOR

HOUSE COMPRESSOR STATION

SB #2

SB #1

SB #3

MV #1

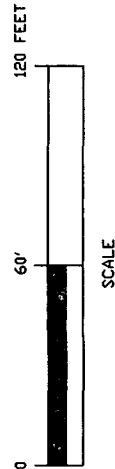
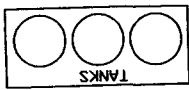
Benzene
Toluene
Ethyl Benzene
Xylenes
<0.001
<0.001
<0.001
<0.001

No Sample
Well Obstruction

MV #3

MV #2

Benzene
Toluene
Ethyl Benzene
Xylene
<0.001
<0.001
<0.001
<0.001



General Notes

MONITOR
WELLS IN
SECTION 11,
TOWNSHIP 20
SOUTH,
RANGE 38
EAST,
N.M.P.M., LEA
COUNTY,
NEW MEXICO

BTEX
Concentration
Map
2-8-2011



Project Name and Address
SOUTHERN UNION
GAS SERVICES LTD.
WATER DOG ROAD
HOUSE COMPRESSOR
STATION

Project 1005-3826 Sheet
Date 3-30-2011
Scale

TABLES

Table 1
Groundwater Gauging
Southern Union
Former Boyd Compressor Station
Eunice, Lea County, New Mexico

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	11/19/2008	3570.93	-	31.91	0.00	3,539.02
	6/26/2009	3570.93	-	32.12	0.00	3,538.81
	3/25/2010	3570.93	-	32.57	0.00	3,538.36
	7/1/2010	3570.93	-	32.67	0.00	3,538.26
	10/29/2010	3570.93	-	32.62	0.00	3,538.31
	2/8/2011	3570.93		32.65		
MW-2	11/19/2008	3570.3	-	31.68	0.00	3,538.62
	6/26/2009	3570.3	-	31.91	0.00	3,538.39
	3/25/2010	3570.3	-	32.28	0.00	3,538.02
	7/1/2010	3570.3	-	32.39	0.00	3,537.91
	10/29/2010	3570.3	-	32.34	0.00	3,537.96
	2/8/2011	3570.3		32.88		
MW-3	11/19/2008	3569.25	-	31.74	0.00	3,537.51
	6/26/2009	3569.25	-	31.91	0.00	3,537.34
	3/25/2010	3569.25	-	32.22	0.00	3,537.03
	7/1/2010	3569.25	-	31.9	0.00	3,537.35
	10/29/2010	3569.25	Not Gauged - Obstruction			
	2/8/2011	3569.25	Not Gauged - Obstruction			

Table 2
Benzene, BTEX, and TPH Groundwater Analysis
Southern Union
Former House Compressor Station
Lea County, New Mexico

Well	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH C6- C12	TPH C12- C28	TPH C28- C35
MW-1	11/19/2008	0.027	0.0068	<0.001	0.0146	0.212	<5.00	N/A
	6/26/2009	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A
	3/25/2010	<0.001	<0.001	<0.001	<0.001	<5.00	<5.00	<5.00
	7/1/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
	10/29/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
	2/8/11	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
MW-2	11/19/2008	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A
	6/26/2009	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A
	3/25/2010	<0.001	<0.001	<0.001	<0.001	<5.00	<5.00	<5.00
	7/1/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
	10/29/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
	2/8/11	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50
MW-3	11/19/2008	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A
	6/26/2009	<0.001	0.061	<0.001	0.016	<0.100	<5.00	N/A
	3/25/2010	Not Sampled - Well Obstructed						
	7/1/10	Not Sampled - Well Obstructed						
	10/29/10	Not Sampled - Well Obstructed						
	2/8/11	Not Sampled - Well Obstructed						
	OCD limits	0.01	0.75	0.75	0.62	N/A		

Table 3
 CONCENTRATIONS OF ANIONS, CATIONS, AND TOTAL DISSOLVED SOLIDS IN GROUNDWATER
 Southern Union
 Former House Compressor Station
 Lea County, New Mexico

Well	Date	TDS	Fluoride	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium
MW-1	11/19/2008	1100	1.08	197	298	4.77	---	136	32.2	13.1	182
	6/26/2009	988	1.35	165	247	3.38	---	---	---	---	---
	3/25/2010	---	---	---	---	---	---	132	33.5	8.96	143
	7/1/10	972		177	---	---	---	138	33.9	7.53	142
	10/29/10	964	1.62	206	202	---	1.4	143	37.2	8.98	163
	2/8/11	924	<2.00	186	162	---	<5.00	141	35	8	138
MW-2	11/19/2008	2300	<1.00	935	322	935	---	935	31.2	12.4	237
	6/26/2009	1130	1.3	260	255	3.37	---	---	---	---	---
	3/25/2010	---	---	---	---	---	---	134	30.1	7.22	187
	7/1/10	1030	---	188	---	---	---	137	30	6.05	183
	10/29/10	968	1.55	211	209	---	1.34	123	30.6	6.49	190
	2/8/11	914	<2.00	194	177	---	<5.00	138	30.2	6.47	160
MW-3	11/19/2008	1390	<1.00	436	296	5.48		166	36.7	14.7	255
	6/26/2009	1310	2.32	412	267	5.08	---	---	---	---	---
	3/25/2010	Not Sampled - Well Obstructed									
	7/1/10	Not Sampled - Well Obstructed									
	10/29/10	Not Sampled - Well Obstructed									
	2/8/11	Not Sampled - Well Obstructed									
	OCD limits	1000	1.6	250	600	N/A	N/A	N/A	N/A	N/A	N/A

APPENDICES

Analytical Report 367026

for

Eco-Logical Environmental

Project Manager: Scott Springer

Eco-Logical Pricing

1005-4156

05-APR-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)

North Carolina(444), Texas(T104704468-TX), Illinois(002295)



05-APR-10

Project Manager: **Scott Springer**
Eco-Logical Environmental
2200 Market Street
Midland, TX 79703

Reference: XENCO Report No: **367026**
Eco-Logical Pricing
Project Address: Texas

Scott Springer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 367026. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 367026 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 367026



Eco-Logical Environmental, Midland, TX

Eco-Logical Pricing

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
House MW-2	W	Mar-25-10 10:00		367026-001
House MW-3	W	Mar-25-10 10:00		367026-002



CASE NARRATIVE

Client Name: Eco-Logical Environmental

Project Name: Eco-Logical Pricing



Project ID: 1005-4156
Work Order Number: 367026

Report Date: 05-APR-10
Date Received: 03/26/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-800123 Total Petroleum Hydrocarbons by Texas 1005
TX1005

Batch 800123, C6-C12 Gasoline Range Hydrocarbons recovered above QC limits in the Matrix Spike.

Samples affected are: 367026-002, -001.

The Laboratory Control Sample for C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-800456 BTEX by EPA 8021
SW8021BM

Batch 800456, 4-Bromofluorobenzene recovered below QC limits, QC Data not confirmed by re-analysis. Samples affected are: 559483-1-BLK, 366989-002 S, 366989-002 SD.

Batch: LBA-800712 Metals per ICP by SW846 6010B
SW6010B_IC

Batch 800712, Calcium recovered below QC limits in the Matrix Spike Duplicate. Magnesium recovered above QC limits in the Matrix Spike.

Samples affected are: 367026-002, -001.

The Laboratory Control Sample for Magnesium, Calcium is within laboratory Control Limits



Certificate of Analysis Summary 367026

Eco-Logical Environmental, Midland, TX



Project Id: 1005-4156

Contact: Scott Springer

Project Location: Texas

Date Received in Lab: Fri Mar-26-10 03:13 pm

Report Date: 05-APR-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	367026-001	367026-002		
	Field Id: Depth: Matrix: Sampled:	House MW-2 WATER Mar-25-10 10:00	House MW-3 WATER Mar-25-10 10:00		
BTEX by EPA 8021	Extracted:	Mar-30-10 15:30	Mar-30-10 15:30		
	Analyzed:	Mar-31-10 05:29	Mar-31-10 05:50		
	Units/RL:	mg/L RL	mg/L RL		
	Benzene	BRL 0.0010	BRL 0.0010		
	Toluene	BRL 0.0010	BRL 0.0010		
Metals per ICP by SW846 6010B SUB: T104704295-TX	Ethylbenzene	BRL 0.0010	BRL 0.0010		
	m,p-Xylenes	BRL 0.0020	BRL 0.0020		
	o-Xylene	BRL 0.0010	BRL 0.0010		
	Total Xylenes	BRL 0.0010	BRL 0.0010		
	Total BTEX	BRL 0.0010	BRL 0.0010		
Total Petroleum Hydrocarbons by Texas 1005	Extracted:	Mar-31-10 06:30	Mar-31-10 06:30		
	Analyzed:	Apr-01-10 10:26	Apr-01-10 10:27		
	Units/RL:	mg/L RL	mg/L RL		
	Calcium	134 0.100	132 0.100		
	Magnesium	30.1 0.010	33.5 0.010		
C6-C12 Gasoline Range Hydrocarbons	Potassium	7.22 0.500	8.96 0.500		
	Sodium	187 0.500	143 0.500		
	Extracted:	Mar-27-10 13:30	Mar-27-10 13:30		
	Analyzed:	Mar-29-10 11:50	Mar-29-10 12:20		
	Units/RL:	mg/L RL	mg/L RL		
C12-C28 Diesel Range Hydrocarbons	C6-C12 Gasoline Range Hydrocarbons	BRL 5.00	BRL 5.00		
	C12-C28 Diesel Range Hydrocarbons	BRL 5.00	BRL 5.00		
	C28-C35 Oil Range Hydrocarbons	BRL 5.00	BRL 5.00		
	Total TPH 1005	BRL 5.00	BRL 5.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Work Orders : 367026,

Project ID: 1005-4156

Lab Batch #: 800456

Sample: 559483-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 22:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 800456

Sample: 559483-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 22:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 800456

Sample: 559483-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/30/10 23:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0238	0.0300	79	80-120	*

Lab Batch #: 800456

Sample: 367026-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/31/10 05:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

Lab Batch #: 800456

Sample: 367026-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/31/10 05:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0357	0.0300	119	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Work Orders : 367026,

Project ID: 1005-4156

Lab Batch #: 800456

Sample: 366989-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/31/10 06:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0197	0.0300	66	80-120	*

Lab Batch #: 800456

Sample: 366989-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/31/10 07:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0227	0.0300	76	80-120	*

Lab Batch #: 800123

Sample: 559258-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/10 16:26

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	11.7	10.0	117	70-135	
o-Terphenyl	5.39	5.00	108	70-135	

Lab Batch #: 800123

Sample: 559258-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/10 16:56

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	12.1	10.0	121	70-135	
o-Terphenyl	5.64	5.00	113	70-135	

Lab Batch #: 800123

Sample: 559258-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/27/10 17:28

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	9.65	10.0	97	70-135	
o-Terphenyl	5.25	5.00	105	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Work Orders : 367026,

Project ID: 1005-4156

Lab Batch #: 800123

Sample: 367026-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/29/10 11:50

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	9.62	10.0	96	70-135	
o-Terphenyl	5.01	5.00	100	70-135	

Lab Batch #: 800123

Sample: 367026-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/29/10 12:20

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	9.88	10.0	99	70-135	
o-Terphenyl	5.25	5.00	105	70-135	

Lab Batch #: 800123

Sample: 366989-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 03/29/10 12:51

SURROGATE RECOVERY STUDY

Total Petroleum Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	11.6	10.0	116	70-135	
o-Terphenyl	5.69	5.00	114	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: Eco-Logical Pricing

Work Order #: 367026

Analyst: ASA

Lab Batch ID: 800456

Sample: 559483-1-BKS

Date Prepared: 03/30/2010

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 03/30/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/L BTEX by EPA 8021 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	<0.0010	0.1000	0.0926	93	0.1	0.0999	100	8	70-125	25
	Toluene	<0.0010	0.1000	0.0929	93	0.1	0.1007	101	8	70-125	25
	Ethylbenzene	<0.0010	0.1000	0.0953	95	0.1	0.1035	104	8	71-129	25
	m,p-Xylenes	<0.0020	0.2000	0.1941	97	0.2	0.2112	106	8	70-131	25
	o-Xylene	<0.0010	0.1000	0.0957	96	0.1	0.1045	105	9	71-133	25

Analyst: DAT

Lab Batch ID: 800712

Sample: 559412-1-BKS

Date Prepared: 03/31/2010

Batch #: 1

Date Analyzed: 04/01/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Metals per ICP by SW846 6010B											
Analytes											
Calcium	<0.100	1.00	0.949	95	1	0.933	93	2	75-125	25	
Magnesium	<0.010	1.00	1.06	106	1	1.04	104	2	75-125	25	
Potassium	<0.500	10.0	9.37	94	10	9.46	95	1	75-125	25	
Sodium	<0.500	11.0	11.0	100	11	10.5	95	5	75-125	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C/[B])$

Blank Spike Duplicate Recovery [G] = $100 * (F/[E])$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Eco-Logical Pricing

Work Order #: 367026

Analyst: BEV

Lab Batch ID: 800123

Sample: 559258-1-BKS

Date Prepared: 03/27/2010

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 03/27/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total Petroleum Hydrocarbons by Texas 1005		Analytes										
C6-C12 Gasoline Range Hydrocarbons		<5.00	100	113	113	100	113	113	0	70-135	25	
C12-C28 Diesel Range Hydrocarbons		<5.00	100	78.5	79	100	77.5	78	1	70-135	25	

Relative Percent Difference $RPD = 200 * [(C-F)/(C+F)]$
Blank Spike Recovery $[D] = 100 * (C)/[B]$
Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Eco-Logical Pricing



Work Order #: 367026

Lab Batch #: 800123

Date Analyzed: 03/29/2010

QC- Sample ID: 366989-003 S

Date Prepared: 03/27/2010

Batch #: 1

Project ID: 1005-4156

Analyst: BEV

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

TPH by Texas1005	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	7.11	100	226	219	70-135	X
C12-C28 Diesel Range Hydrocarbons	<2.50	100	79.9	80	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: Eco-Logical Pricing



Work Order #: 367026

Lab Batch ID: 800456

Date Analyzed: 03/31/2010

Reporting Units: mg/L

Project ID: 1005-4156

QC- Sample ID: 366989-002 S

Date Prepared: 03/30/2010

Batch #: 1 Matrix: Water

Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	0.0021	0.1000	0.0851	83	0.1000	0.0732	71	15	70-125	25
	Toluene	<0.0020	0.1000	0.0849	85	0.1000	0.0730	73	15	70-125	25
	Ethylbenzene	<0.0010	0.1000	0.0867	87	0.1000	0.0742	74	16	71-129	25
	m,p-Xylenes	<0.0020	0.2000	0.1726	86	0.2000	0.1517	76	13	70-131	25
	o-Xylene	<0.0010	0.1000	0.0863	86	0.1000	0.0757	76	13	71-133	25

Lab Batch ID: 800712

Date Analyzed: 04/01/2010

Reporting Units: mg/L

QC- Sample ID: 366935-001 S

Date Prepared: 03/31/2010

Batch #: 1 Matrix: Water

Analyst: DAT

Reporting Units: mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
	Metals per ICP by SW846 6010B											
	Analytes											
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Calcium	181	1.00	182	100	1.00	178	0	2	75-125	25	X
	Magnesium	11.1	1.00	12.5	140	1.00	12.2	110	2	75-125	25	X
	Potassium	1.89	10.0	13.0	111	10.0	12.7	108	2	75-125	25	
	Sodium	35.2	11.0	47.1	108	11.0	47.1	108	0	75-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



- ☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332 Blackberry Drive, San Antonio, TX 78238 210-509-3334
☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 245895 Page of

Lab Only: 367026

Company-City: Geo-logical Environmental Services 432-520-7535

Project ID: 1005-4156

Previously done at XENCO

Proj State: ☒ AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other

Proj Manager (PM): Scott Springer

e-Mail Results to ☐ PM and ☐ Other

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to: Eco-logical Environmental

Quote/Pricing: P.O. No: ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)

Sampler Name: Scott Springer Signature: Scott Springer

Sample ID

Sampling Date

Time

Depth in

Matrix

Composite

Containers

Container Size

Container Type

Preservatives

1 House m-w 3 3/25/10 10:00 W 7

2 House m-w 3 3/25/10 10:00 W 7

3

4

5

6

7

8

9

10

Relinquished by (Initials and Sign)

Date & Time

Relinquished to (Initials and Sign)

Date & Time

Total Containers per COC:

Cooler Temp:

Upon signing this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Rush will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Ascorbic Acid/NaOH (A), Zinc Acetate/NaOH (Z), Cool, <4C (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ecological Environmental
 Date/ Time: 3/26/10 3:13
 Lab ID #: 367026
 Initials: AS

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	1.1 °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Table 2- Groundwater Analysis

Southern Union

Former House Compressor Station

Lea County, New Mexico

Well	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH C6- C12	TPH C12- C28	TPH C28- C35	TDS	Fluoride	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium
MW-1	11/19/2008	0.027	0.0068	<0.001	0.0146	0.212	<5.00	N/A	1100	1.08	197	298	4.77	---	136	32.2	13.1	182
	6/26/2009	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A	988	1.35	165	247	3.38	---	---	---	---	---
	3/25/2010	Not Sampled																
	7/1/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	972	---	177	---	---	---	138	33.9	7.53	142
MW-2	10/29/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	964	1.62	206	202	---	1.4	143	37.2	8.98	163
	2/8/11	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	924	<2.00	186	162	---	<5.00	141	35	8	138
	11/19/2008	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A	2300	<1.00	935	322	935	---	935	31.2	12.4	237
	6/26/2009	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A	1130	1.3	260	255	3.37	---	---	---	---	---
MW-3	3/25/2010	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	1030	---	188	---	---	---	134	30.1	7.22	187
	7/1/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	968	1.55	211	209	---	---	137	30	6.05	183
	10/29/10	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	914	<2.00	194	177	---	<5.00	123	30.6	6.49	190
	2/8/11	<0.001	<0.001	<0.001	<0.001	<1.50	<1.50	<1.50	---	---	---	---	---	---	138	30.2	6.47	160
MW-3	11/19/2008	<0.001	<0.001	<0.001	<0.001	<0.100	<5.00	N/A	1390	<1.00	436	296	5.48	---	166	36.7	14.7	255
	6/26/2009	<0.001	0.061	<0.001	0.016	<0.100	<5.00	N/A	1310	2.32	412	267	5.08	---	---	---	---	---
	3/25/2010	<0.001	<0.001	<0.001	<0.001	<5.00	<5.00	<5.00	---	---	---	---	---	---	132	33.5	8.96	143
	7/1/10	Not Sampled - Well Obstructed																
MW-3	10/29/10	Not Sampled - Well Obstructed																
	2/8/11	Not Sampled - Well Obstructed																
	OCD limits	0.01	0.75	0.75	0.62	N/A			250	1.6	1000	600			N/A	N/A	N/A	N/A

Analytical Report 380156

for

Eco-Logical Environmental

Project Manager: Scott Springer

House

1005-4156

16-JUL-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL00449):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



16-JUL-10

Project Manager: **Scott Springer**
Eco-Logical Environmental
2200 Market Street
Midland, TX 79703

Reference: XENCO Report No: **380156**
House
Project Address: NM

Scott Springer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 380156. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 380156 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 380156



Eco-Logical Environmental, Midland, TX
House

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Jul-01-10 16:40		380156-001
MW-2	W	Jul-01-10 17:10		380156-002



CASE NARRATIVE

Client Name: Eco-Logical Environmental

Project Name: House



Project ID: 1005-4156

Work Order Number: 380156

Report Date: 16-JUL-10

Date Received: 07/06/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-813583 Inorganic Anions by EPA 300
E300MI

Batch 813583, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 380156-002, -001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-813595 BTEX by EPA 8021

None

Batch: LBA-813778 TPH by SW8015 Mod
SW8015MOD_NM

Batch 813778, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 380156-002,380156-001.

Batch: LBA-813789 TDS by SM2540C

None

Batch: LBA-814788 Inductively Coupled Plasma Atomic Emission Spectroscopy Mass
SW6020 Spectrometry

Batch 814788, Calcium recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 380156-002, -001.

The Laboratory Control Sample for Calcium is within laboratory Control Limits



Certificate of Analysis Summary 380156

Eco-Logical Environmental, Midland, TX



Project Id: 1005-4156

Contact: Scott Springer

Project Location: NM

Project Name: House

Date Received in Lab: Tue Jul-06-10 09:00 am

Report Date: 16-JUL-10

Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	380156-001	380156-002		
		Field Id:	MW-1	MW-2		
		Depth:				
		Matrix:	WATER	WATER		
		Sampled:	Jul-01-10 16:40	Jul-01-10 17:10		
Anions in Water by EPA 300		Extracted:				
		Analyzed:	Jul-06-10 15:45	Jul-06-10 15:45		
		Units/RL:	mg/L RL	mg/L RL		
Chloride			177 10.0	188 10.0		
BTEX by EPA 8021		Extracted:	Jul-06-10 15:30	Jul-06-10 15:30		
		Analyzed:	Jul-06-10 18:29	Jul-06-10 18:52		
		Units/RL:	mg/L RL	mg/L RL		
Benzene			BRL 0.0010	BRL 0.0010		
Toluene			BRL 0.0020	BRL 0.0020		
Ethylbenzene			BRL 0.0010	BRL 0.0010		
m,p-Xylenes			BRL 0.0020	BRL 0.0020		
o-Xylene			BRL 0.0010	BRL 0.0010		
Xylenes, Total			BRL 0.0010	BRL 0.0010		
Total BTEX			BRL 0.0010	BRL 0.0010		
Inductively Coupled Plasma Atomic		Extracted:	Jul-15-10 10:25	Jul-15-10 10:25		
Emission Spectroscopy Mass		Analyzed:	Jul-15-10 17:49	Jul-15-10 17:54		
Spectrometry		Units/RL:	mg/L RL	mg/L RL		
SUB: T104704215-TX						
Calcium			138 0.500	137 0.500		
Magnesium			33.9 0.500	30.0 0.500		
Potassium			7.53 0.300	6.05 0.300		
Sodium			142 0.500	183 0.500		
TDS by SM2540C		Extracted:				
		Analyzed:	Jul-06-10 16:00	Jul-06-10 16:00		
		Units/RL:	mg/L RL	mg/L RL		
Total dissolved solids			972 5.00	1030 5.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 380156

Eco-Logical Environmental, Midland, TX



Project Id: 1005-4156

Contact: Scott Springer

Project Location: NM

Project Name: House

Date Received in Lab: Tue Jul-06-10 09:00 am

Report Date: 16-JUL-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	380156-001	380156-002		
	<i>Field Id:</i>	MW-1	MW-2		
	<i>Depth:</i>				
	<i>Matrix:</i>	WATER	WATER		
	<i>Sampled:</i>	Jul-01-10 16:40	Jul-01-10 17:10		
TPH by SW8015 Mod	<i>Extracted:</i>	Jul-07-10 10:30	Jul-07-10 10:30		
	<i>Analyzed:</i>	Jul-07-10 15:16	Jul-07-10 15:46		
	<i>Units/RL:</i>	mg/L RL	mg/L RL		
	C6-C12 Gasoline Range Hydrocarbons	BRL 1.50	BRL 1.50		
	C12-C28 Diesel Range Hydrocarbons	BRL 1.50	BRL 1.50		
	C28-C35 Oil Range Hydrocarbons	BRL 1.50	BRL 1.50		
	Total TPH	BRL 1.50	BRL 1.50		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brett Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 380156,

Project ID: 1005-4156

Lab Batch #: 813595

Sample: 567462-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 16:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 813595

Sample: 567462-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 16:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 813595

Sample: 567462-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 18:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 813595

Sample: 380156-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 18:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 813595

Sample: 380156-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 18:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 380156,

Project ID: 1005-4156

Lab Batch #: 813595

Sample: 380158-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 21:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 813595

Sample: 380158-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/06/10 21:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 813778

Sample: 567567-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 13:19

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.6	10.0	116	70-135	
o-Terphenyl	6.26	5.00	125	70-135	

Lab Batch #: 813778

Sample: 567567-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 14:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.3	10.0	123	70-135	
o-Terphenyl	6.57	5.00	131	70-135	

Lab Batch #: 813778

Sample: 567567-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 14:47

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.4	10.0	114	70-135	
o-Terphenyl	6.55	5.00	131	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 380156,

Project ID: 1005-4156

Lab Batch #: 813778

Sample: 380156-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 15:16

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.3	10.0	123	70-135	
o-Terphenyl	7.16	5.00	143	70-135	*

Lab Batch #: 813778

Sample: 380156-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 15:46

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.6	10.0	126	70-135	
o-Terphenyl	7.26	5.00	145	70-135	*

Lab Batch #: 813778

Sample: 380156-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 07/07/10 18:43

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.0	10.0	120	70-135	
o-Terphenyl	6.54	5.00	131	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: House

Work Order #: 380156

Project ID:

1005-4156

Lab Batch #: 814788

Sample: 568114-1-BKS

Matrix: Water

Date Analyzed: 07/15/2010

Date Prepared: 07/15/2010

Analyst: HAT

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inductively Coupled Plasma Atomic Emission Sp Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Calcium	<0.500	3.00	2.63	88	75-125	
Magnesium	<0.500	3.00	3.12	104	75-125	
Potassium	<0.300	2.00	2.03	102	75-125	
Sodium	<0.500	3.00	2.81	94	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: House

Work Order #: 380156

Analyst: ASA

Lab Batch ID: 813595

Sample: 567462-1-BKS

Date Prepared: 07/06/2010

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 07/06/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021											
Benzene	<0.0010	0.1000	0.0978	98	0.1	0.1039	104	6	70-125	25	
Toluene	<0.0020	0.1000	0.0909	91	0.1	0.0957	96	5	70-125	25	
Ethylbenzene	<0.0010	0.1000	0.0954	95	0.1	0.1011	101	6	71-129	25	
m,p-Xylenes	<0.0020	0.2000	0.1923	96	0.2	0.2043	102	6	70-131	25	
o-Xylene	<0.0010	0.1000	0.0955	96	0.1	0.1015	102	6	71-133	25	

Analyst: LATCOR

Lab Batch ID: 813583

Sample: 813583-1-BKS

Date Prepared: 07/06/2010

Batch #: 1

Date Analyzed: 07/06/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions in Water by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	10.0	10.2	102	10	10.2	102	0	90-110	20	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$
Blank Spike Recovery [D] = $100 * (C/[B])$
Blank Spike Duplicate Recovery [G] = $100 * (F/[E])$
All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: House

Work Order #: 380156

Analyst: WRU

Lab Batch ID: 813789

Sample: 813789-1-BKS

Units: mg/L

Project ID: 1005-4156

Date Analyzed: 07/06/2010

Matrix: Water

Date Prepared: 07/06/2010

Batch #: 1

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blank Spike Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids	<5.00	1000	936	94	1000	956	96	2	80-120	30	

Analyst: BEV

Lab Batch ID: 813778

Sample: 567567-1-BKS

Units: mg/L

Date Prepared: 07/07/2010

Batch #: 1

Date Analyzed: 07/07/2010

Matrix: Water

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blank Spike Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<1.50	100	99.2	99	100	101	101	2	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<1.50	100	82.6	83	100	87.0	87	5	70-135	25	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/(B)$

Blank Spike Duplicate Recovery [G] = $100 * (F)/(E)$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: House



Work Order #: 380156

Lab Batch #: 813583

Date Analyzed: 07/06/2010

Date Prepared: 07/06/2010

Project ID: 1005-4156

Analyst: LATCOR

QC- Sample ID: 380156-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	177	200	403	113	90-110	X

Lab Batch #: 813778

Date Analyzed: 07/07/2010

Date Prepared: 07/07/2010

Analyst: BEV

QC- Sample ID: 380156-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<1.50	100	103	103	70-135	
C12-C28 Diesel Range Hydrocarbons	<1.50	100	83.1	83	70-135	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$

Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: House

Work Order #: 380156

Project ID: 1005-4156

Lab Batch ID: 813595

QC-Sample ID: 380158-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 07/06/2010

Date Prepared: 07/06/2010

Analyst: ASA

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	<0.0010	0.1000	0.0881	88	0.1000	0.0887	89	1	70-125	25
	Toluene	<0.0020	0.1000	0.0818	82	0.1000	0.0814	81	0	70-125	25
	Ethylbenzene	<0.0010	0.1000	0.0864	86	0.1000	0.0865	87	0	71-129	25
	m,p-Xylenes	<0.0020	0.2000	0.1750	88	0.2000	0.1750	88	0	70-131	25
	o-Xylene	<0.0010	0.1000	0.0845	85	0.1000	0.0849	85	0	71-133	25

Lab Batch ID: 814788

QC-Sample ID: 381504-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 07/15/2010

Date Prepared: 07/15/2010

Analyst: HAT

Reporting Units: mg/L

Inductively Coupled Plasma Atomic Emission Spectroscopy Mass Spectrometry	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Calcium	29.5	3.00	31.7	73	3.00	31.5	67	1	75-125	25	X
	Magnesium	3.91	3.00	6.81	97	3.00	6.73	94	1	75-125	25	
	Potassium	5.15	2.00	7.03	94	2.00	6.94	90	1	75-125	25	
	Sodium	20.7	3.00	23.8	103	3.00	23.2	83	3	75-125	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Relative Percent Difference RPD = 200*(C-F)/(C-F)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Applicable N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: House

Work Order #: 380156

Lab Batch #: 813583

Date Analyzed: 07/06/2010

QC- Sample ID: 380156-001 D

Reporting Units: mg/L

Date Prepared: 07/06/2010

Batch #: 1

Project ID: 1005-4156

Analyst: LATCOR

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions in Water by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	177	188	6	20	

Lab Batch #: 814788

Date Analyzed: 07/15/2010

QC- Sample ID: 381504-001 D

Reporting Units: mg/L

Date Prepared: 07/15/2010

Batch #: 1

Analyst: HAT

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inductively Coupled Plasma Atomic Emission Spectroscopy Mass Spectrometry	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Calcium	29.5	29.5	0	20	
Magnesium	3.91	3.90	0	20	
Potassium	5.15	5.18	1	20	
Sodium	20.7	20.9	1	20	

Lab Batch #: 813789

Date Analyzed: 07/06/2010

QC- Sample ID: 380156-001 D

Reporting Units: mg/L

Date Prepared: 07/06/2010

Batch #: 1

Analyst: WRU

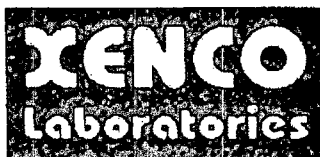
Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	972	998	3	30	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

**XENCO Laboratories**

Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-InClient: Eco-Logical EnvironmentalDate/Time: 07-06-10 @ 0900Lab ID #: 380156Initials: JMF**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3.1 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis

Analytical Report 395493

for

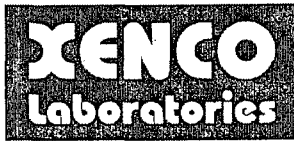
Eco-Logical Environmental

Project Manager: Scott Springer

House

1005-3826

08-NOV-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



08-NOV-10

Project Manager: **Scott Springer**
Eco-Logical Environmental
2200 Market Street
Midland, TX 79703

Reference: XENCO Report No: **395493**
House
Project Address:

Scott Springer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 395493. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 395493 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 395493



Eco-Logical Environmental, Midland, TX
House

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Oct-29-10 13:15		395493-001
MW-2	W	Oct-29-10 13:15		395493-002



CASE NARRATIVE

Client Name: Eco-Logical Environmental

Project Name: House



Project ID: 1005-3826

Work Order Number: 395493

Report Date: 08-NOV-10

Date Received: 11/01/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-830631 BTEX by EPA 8021B
SW8021BM

Batch 830631, 1,4-Difluorobenzene recovered below QC limits Data confirmed by re-analysis.
Samples affected are: 395493-002, 395493-001. Batch 830631, 1,4-Difluorobenzene recovered
below QC limits Data not confirmed by re-analysis. Samples affected are: 577933-1-BLK.

Batch: LBA-830858 ICP-MS Metals by SW 6020A
SW6020

Batch 830858, Sodium recovered above QC limits in the Matrix Spike and Matrix Spike
Duplicate.

Samples affected are: 395493-002, -001.

The Laboratory Control Sample for Sodium is within laboratory Control Limits



Certificate of Analysis Summary 395493

Eco-Logical Environmental, Midland, TX



Project Id: 1005-3826
Contact: Scott Springer
Project Location:

Project Name: House

Date Received in Lab: Mon Nov-01-10 11:58 am
Report Date: 08-NOV-10
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	395493-001	395493-002		
		Field Id:	MW-1	MW-2		
		Depth:				
		Matrix:	WATER	WATER		
		Sampled:	Oct-29-10 13:15	Oct-29-10 13:15		
Anions by E300	Extracted:					
	Analyzed:		Nov-02-10 12:55	Nov-02-10 12:55		
	Units/RL:		mg/L RL	mg/L RL		
	Fluoride		1.62 0.200	1.55 0.200		
	Chloride		206 0.500	211 0.500		
Cations by E300			202 0.500	209 0.500		
	Sulfate					
	Bromide		1.40 0.500	1.34 0.500		
BTEX by EPA 8021B	Extracted:		Nov-04-10 09:00	Nov-04-10 09:00		
	Analyzed:		Nov-04-10 21:40	Nov-04-10 22:43		
	Units/RL:		mg/L RL	mg/L RL		
	Benzene		ND 0.0010	ND 0.0010		
	Toluene		ND 0.0020	ND 0.0020		
VOCs by EPA 8021B	Ethylbenzene		ND 0.0010	ND 0.0010		
	m,p-Xylenes		ND 0.0020	ND 0.0020		
	o-Xylene		ND 0.0010	ND 0.0010		
	Total Xylenes		ND 0.0010	ND 0.0010		
	Total BTEX		ND 0.0010	ND 0.0010		
ICP-MS Metals by SW 6020A SUB: T104704215-TX	Extracted:		Nov-04-10 12:50	Nov-04-10 12:50		
	Analyzed:		Nov-05-10 15:21	Nov-05-10 15:50		
	Units/RL:		mg/L RL	mg/L RL		
	Calcium		143 0.500	123 0.500		
	Magnesium		37.2 0.500	30.6 0.500		
Other Metals by E300	Potassium		8.98 0.300	6.49 0.300		
	Sodium		163 D 50.00	190 D 50.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 395493

Eco-Logical Environmental, Midland, TX



Project Id: 1005-3826

Contact: Scott Springer

Project Location:

Project Name: House

Date Received in Lab: Mon Nov-01-10 11:58 am

Report Date: 08-NOV-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	395493-001	395493-002			
	Field Id:	MW-1	MW-2			
	Depth:					
	Matrix:	WATER	WATER			
	Sampled:	Oct-29-10 13:15	Oct-29-10 13:15			
TDS by SM2540C	Extracted:					
	Analyzed:	Nov-02-10 16:00	Nov-02-10 16:00			
	Units/RL:	mg/L RL 964 5.00	mg/L RL 968 5.00			
Total dissolved solids						
TPH By SW8015 Mod	Extracted:	Nov-02-10 10:40	Nov-02-10 10:40			
	Analyzed:	Nov-02-10 19:12	Nov-02-10 20:13			
	Units/RL:	mg/L RL ND 1.50	mg/L RL ND 1.50			
C6-C12 Gasoline Range Hydrocarbons						
C12-C28 Diesel Range Hydrocarbons						
C28-C35 Oil Range Hydrocarbons						
Total TPH						

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi


Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 395493,

Project ID: 1005-3826

Lab Batch #: 830631

Sample: 577933-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 13:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

Lab Batch #: 830631

Sample: 577933-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 13:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 830631

Sample: 577933-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 14:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0225	0.0300	75	80-120	*
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 830631

Sample: 395498-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 18:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0240	0.0300	80	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 830631

Sample: 395498-004 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 19:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 395493,

Project ID: 1005-3826

Lab Batch #: 830631

Sample: 395493-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 21:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0214	0.0300	71	80-120	**
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 830631

Sample: 395493-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/04/10 22:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0224	0.0300	75	80-120	**
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 830248

Sample: 577712-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 13:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	11.8	10.0	118	70-135	
o-Terphenyl	5.64	5.00	113	70-135	

Lab Batch #: 830248

Sample: 577712-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 13:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	12.2	10.0	122	70-135	
o-Terphenyl	5.19	5.00	104	70-135	

Lab Batch #: 830248

Sample: 577712-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 14:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	11.5	10.0	115	70-135	
o-Terphenyl	5.74	5.00	115	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 395493,

Project ID: 1005-3826

Lab Batch #: 830248

Sample: 395493-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 19:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.0	10.0	110	70-135	
o-Terphenyl	5.36	5.00	107	70-135	

Lab Batch #: 830248

Sample: 395493-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 20:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.9	10.0	109	70-135	
o-Terphenyl	5.29	5.00	106	70-135	

Lab Batch #: 830248

Sample: 395485-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/02/10 20:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.2	10.0	112	70-135	
o-Terphenyl	5.23	5.00	105	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: House

Work Order #: 395493

Project ID:

1005-3826

Lab Batch #: 830858

Sample: 577876-1-BKS

Matrix: Water

Date Analyzed: 11/05/2010

Date Prepared: 11/04/2010

Analyst: HAT

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

ICP-MS Metals by SW 6020A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Calcium	ND	3.00	2.72	91	75-125	
Magnesium	ND	3.00	3.20	107	75-125	
Potassium	ND	2.00	2.15	108	75-125	
Sodium	ND	3.00	3.18	106	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: House

Work Order #: 395493

Analyst: ASA

Lab Batch ID: 830631

Sample: 577933-1-BKS

Date Prepared: 11/04/2010

Batch #: 1

Project ID: 1005-3826

Date Analyzed: 11/04/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
Analytes	BTEX by EPA 8021B											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	ND	0.1000	0.1102	110	0.1	0.1117	112	1	70-125	25	
	Toluene	ND	0.1000	0.0968	97	0.1	0.0979	98	1	70-125	25	
	Ethylbenzene	ND	0.1000	0.0953	95	0.1	0.0970	97	2	71-129	25	
	m,p-Xylenes	ND	0.2000	0.1860	93	0.2	0.1873	94	1	70-131	25	
	o-Xylene	ND	0.1000	0.0933	93	0.1	0.0945	95	1	71-133	25	

Analyst: LATCOR

Lab Batch ID: 830229

Sample: 830229-1-BKS

Date Prepared: 11/02/2010

Batch #: 1

Date Analyzed: 11/02/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Anions by E300		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Fluoride		ND	2.00	2.03	102	2	2.03	102	0	90-110	20	
Chloride		ND	10.0	10.1	101	10	10.1	101	0	90-110	20	
Sulfate		ND	10.0	9.83	98	10	9.78	98	1	90-110	20	
Bromide		ND	1.50	1.55	103	1.5	1.55	103	0	90-110	20	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/(B)$

Blank Spike Duplicate Recovery [G] = $100 * (F)/(E)$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: House

Work Order #: 395493

Analyst: WRU

Lab Batch ID: 830426

Sample: 830426-1-BKS

Date Prepared: 11/02/2010

Batch #: 1

Project ID: 1005-3826

Date Analyzed: 11/02/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Total dissolved solids	ND	1000	902	90	1000	956	96	6	80-120	30

Analyst: BEV

Lab Batch ID: 830248

Sample: 57712-1-BKS

Date Prepared: 11/02/2010

Batch #: 1

Date Analyzed: 11/02/2010

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	TPH By SW8015 Mod										
	C6-C12 Gasoline Range Hydrocarbons	ND	100	84.5	85	100	79.4	79	6	70-135	25
	C12-C28 Diesel Range Hydrocarbons	ND	100	87.4	87	100	82.9	83	5	70-135	25

Relative Percent Difference $RPD = 200 * [(C-F)/(C+F)]$

Blank Spike Recovery $[D] = 100 * (C)/[B]$

Blank Spike Duplicate Recovery $[G] = 100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: House



Work Order #: 395493

Lab Batch #: 830248

Date Analyzed: 11/02/2010

Date Prepared: 11/02/2010

Project ID: 1005-3826

Analyst: BEV

QC- Sample ID: 395485-004 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	100	83.3	83	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	100	85.1	85	70-135	

Matrix Spike Percent Recovery [D] = $100 \cdot (C-A)/B$

Relative Percent Difference [E] = $200 \cdot (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: House

Work Order #: 395493

Lab Batch ID: 830631

Date Analyzed: 11/04/2010

Reporting Units: mg/L

Project ID: 1005-3826

QC- Sample ID: 395498-004 S Batch #: 1 Matrix: Water

Date Prepared: 11/04/2010 Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample Result [F]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1042	104	0.1042	0.1172	117	12	70-125	25	
Toluene	ND	0.1000	0.0912	91	0.1000	0.1027	103	12	70-125	25	
Ethylbenzene	ND	0.1000	0.0899	90	0.1000	0.1017	102	12	71-129	25	
m,p-Xylenes	ND	0.2000	0.1717	86	0.2000	0.1915	96	11	70-131	25	
o-Xylene	ND	0.1000	0.0881	88	0.1000	0.0995	100	12	71-133	25	

Lab Batch ID: 830858

Date Analyzed: 11/05/2010

Reporting Units: mg/L

QC- Sample ID: 395493-001 S Batch #: 1 Matrix: Water

Date Prepared: 11/04/2010 Analyst: HAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

ICP-MS Metals by SW 6020A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample Result [F]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Calcium	143	3.00	146	100	146	146	100	0	75-125	25	
Magnesium	37.2	3.00	40.4	107	40.4	40.7	117	1	75-125	25	
Potassium	8.98	2.00	11.2	111	11.2	11.2	111	0	75-125	25	
Sodium	163	3.00	167	133	167	171	267	2	75-125	25	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Sample Duplicate Recovery



Project Name: House

Work Order #: 395493

Lab Batch #: 830229

Date Analyzed: 11/02/2010

QC- Sample ID: 395488-001 D

Reporting Units: mg/L

Date Prepared: 11/02/2010

Batch #: 1

Project ID: 1005-3826

Analyst: LATCOR

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Fluoride	1.38	1.39	1	20	
Chloride	261	261	0	20	
Sulfate	171	172	1	20	
Bromide	1.90	1.91	1	20	

Lab Batch #: 830858

Date Analyzed: 11/05/2010

QC- Sample ID: 395493-001 D

Reporting Units: mg/L

Date Prepared: 11/04/2010

Batch #: 1

Analyst: HAT

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
ICP-MS Metals by SW 6020A	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Calcium	143	143	0	20	
Magnesium	37.2	37.2	0	20	
Potassium	8.98	8.98	0	20	
Sodium	163	162	1	20	

Lab Batch #: 830426

Date Analyzed: 11/02/2010

QC- Sample ID: 395488-001 D

Reporting Units: mg/L

Date Prepared: 11/02/2010

Batch #: 1

Analyst: WRU

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1220	1220	0	30	

Spike Relative Difference $RPD = 200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

- ☐ 4143 Greenbriar Drive, Stafford, Tx 77477 281-240-4200
- ☐ 5332 Blackberry Drive, San Antonio, Tx 78238 210-509-3334
- ☐ 9701 Harry Hines Blvd., Dallas, Tx 75220 214-902-0300

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Company-City ECO-logical Environmental		Phone 438-520-7535		Lab Only: 396493	
Project Name-Location HOUSE		Previously done at XENCO ☐		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
Project State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT, Other South Carolina		Proj. Manager (PM) Scott Springer		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
e-Mail Results to XPM and Scott@eco-logical.com		Fax No: 438-520-7737		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
Invoice to ☒ Accounting ☐ Inv. Invoice with Final Report ☐ Invoice must have a P.O. Bill to: SUG		P.O. No: ☐ Call for P.O.		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
Quote/Pricing:		Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:		Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	

Sampler Name: Anna Vargas		Signature: <i>[Signature]</i>	
Sample ID	Sampling Date	Time	Depth
MW-1	10/29/10	1:15	1
MW-2	1	1	1

Preservatives	Container Type	Container Size	# Containers	Grab	Composite	Matrix	Depth	Time
			54	G	H		1	1

VOCS: Full-List BTEX-MTBE EIOH Oxyg VOHS VOAS	VOCS: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHS	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	XCATIONS	XCATIONS	XCATIONS

Adn: PAH above mg/L W.	mg/Kg S Highest Hll	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC: 10	Cooler Temp: 2.6
<i>[Signature]</i>	11/10/10	<i>[Signature]</i>	11/10/10		

I, **Anna Vargas**, hereby certify that the data reported herein are true and accurate to the best of my knowledge and belief. I am a duly qualified and experienced professional in the field of environmental testing and analysis. I am not aware of any falsification, manipulation, or other unethical practices in the collection, analysis, or reporting of the data. I understand that any falsification, manipulation, or other unethical practices may result in civil and criminal penalties, including fines and imprisonment. I agree to indemnify and hold harmless the client from and against any and all claims, damages, costs, and expenses, including reasonable attorneys' fees, that may be asserted against or incurred by the client in connection with or arising out of the collection, analysis, or reporting of the data. I agree to maintain the confidentiality of the data and to not disclose the data to any third party without the prior written consent of the client. I agree to provide the client with a copy of this certificate and a copy of the data report. I agree to provide the client with a copy of this certificate and a copy of the data report. I agree to provide the client with a copy of this certificate and a copy of the data report.

Preservatives: Vanous (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), Cool,<4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tiedlar Bag (B), Various (V), Other
Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

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Matrix: Air (A). Product (P). Solid(S). Water (W). Liquid (L)

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates.

subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

**XENCO Laboratories**

Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-InClient: Eco-Logical EnvironmentalDate/Time: 11/01/10 11:58

Lab ID #: _____

Initials: LM**Sample Receipt Checklist**

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>2.6</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 - ☐ Initial and Backup Temperature confirm out of temperature conditions
 - ☐ Client understands and would like to proceed with analysis

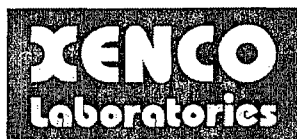
Analytical Report 406346
for
Southern Union Gas Services- Monahans

Project Manager: Rose Slade

House

1005-4156

16-FEB-11



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

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Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



16-FEB-11

Project Manager: **Rose Slade**
Southern Union Gas Services- Monahans
1507 W. 15th Street
Monahans, TX 79756

Reference: XENCO Report No: **406346**
House
Project Address:

Rose Slade:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 406346. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 406346 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 406346



Southern Union Gas Services- Monahans, Monahans, TX
House

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Feb-08-11 00:00		406346-001
MW-2	W	Feb-08-11 00:00		406346-002



CASE NARRATIVE

Client Name: Southern Union Gas Services- Monahans
Project Name: House



Project ID: 1005-4156
Work Order Number: 406346

Report Date: 16-FEB-11
Date Received: 02/10/2011

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-843267 TDS by SM2540C

Batch: LBA-843781 Metals per ICP by SW846 6010B
SW6010B_IC

Batch 843781, Sodium recovered above QC limits in the Matrix Spike.

Samples affected are: 406346-002, -001.

The Laboratory Control Sample for Sodium is within laboratory Control Limits



Certificate of Analysis Summary 406346

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: 1005-4156

Contact: Rose Slade

Project Location:

Project Name: House

Date Received in Lab: Thu Feb-10-11 11:35 am

Report Date: 16-FEB-11

Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	406346-001	406346-002	
		Field Id:	MW-1	MW-2	
		Depth:			
		Matrix:	WATER	WATER	
		Sampled:	Feb-08-11 00:00	Feb-08-11 00:00	
Anions by E300 SUB: T104704295-TX	Extracted:				
	Analyzed:	Feb-11-11 11:11		Feb-11-11 11:11	
	Units/RL:	mg/L RL		mg/L RL	
		ND 2.00		ND 2.00	
Fluoride					
			186 5.00	194 5.00	
			162 5.00	177 5.00	
			ND 5.00	ND 5.00	
BTEX by EPA 8021B	Extracted:				
	Analyzed:	Feb-10-11 15:50		Feb-10-11 15:50	
	Units/RL:	mg/L RL		mg/L RL	
		ND 0.00100		ND 0.00100	
Benzene					
			ND 0.00200	ND 0.00200	
			ND 0.00100	ND 0.00100	
			ND 0.00200	ND 0.00200	
m, p-Xylenes					
			ND 0.00100	ND 0.00100	
			ND 0.00100	ND 0.00100	
			ND 0.00100	ND 0.00100	
o-Xylene					
			ND 0.00100	ND 0.00100	
			ND 0.00100	ND 0.00100	
			ND 0.00100	ND 0.00100	
Total Xylenes					
			ND 0.00100	ND 0.00100	
Total BTEX					
			Feb-14-11 08:00	Feb-14-11 08:00	
			Feb-14-11 13:35	Feb-14-11 13:37	
			mg/L RL	mg/L RL	
Metals per ICP by SW846 6010B	Extracted:				
	Analyzed:				
	Units/RL:				
			141 0.100	138 0.100	
Calcium					
			34.8 0.0100	30.2 0.0100	
			7.92 0.500	6.47 0.500	
			138 0.500	160 0.500	
Magnesium					
Potassium					
Sodium					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 406346

Southern Union Gas Services- Monahans, Monahans, TX



Project Id: 1005-4156

Contact: Rose Slade

Project Location:

Project Name: House

Date Received in Lab: Thu Feb-10-11 11:35 am

Report Date: 16-FEB-11

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	406346-001	406346-002		
	Field Id:	MW-1	MW-2		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Feb-08-11 00:00	Feb-08-11 00:00		
TDS by SM2540C	Extracted:				
	Analyzed:	Feb-10-11 16:00	Feb-10-11 16:00		
	Units/RL:	mg/L RL	mg/L RL		
Total dissolved solids		924 5.00	914 5.00		
TPH By SW8015 Mod	Extracted:	Feb-10-11 13:30	Feb-10-11 13:30		
	Analyzed:	Feb-10-11 23:34	Feb-10-11 23:52		
	Units/RL:	mg/L RL	mg/L RL		
C6-C12 Gasoline Range Hydrocarbons		ND 1.50	ND 1.50		
C12-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.50		
C28-C35 Oil Range Hydrocarbons		ND 1.50	ND 1.50		
Total TPH		ND 1.50	ND 1.50		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F RPD exceeded lab control limits.
 - J The target analyte was positively identified below the MQL and above the SQL.
 - U Analyte was not detected.
 - L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 406346,

Project ID: 1005-4156

Lab Batch #: 843493

Sample: 595536-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 09:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 843493

Sample: 595536-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 09:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 843493

Sample: 595536-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 14:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 843493

Sample: 406346-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 17:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 843493

Sample: 406346-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 18:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 406346,

Project ID: 1005-4156

Lab Batch #: 843493

Sample: 406348-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 23:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0305	0.0300	102	80-120	
4-Bromofluorobenzene		0.0305	0.0300	102	80-120	

Lab Batch #: 843493

Sample: 406348-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/12/11 00:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		0.0302	0.0300	101	80-120	

Lab Batch #: 843225

Sample: 595376-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/10/11 16:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		9.01	10.0	90	70-135	
o-Terphenyl		4.00	5.00	80	70-135	

Lab Batch #: 843225

Sample: 595376-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/10/11 17:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		9.20	10.0	92	70-135	
o-Terphenyl		4.08	5.00	82	70-135	

Lab Batch #: 843225

Sample: 595376-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/10/11 17:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		7.32	10.0	73	70-135	
o-Terphenyl		3.61	5.00	72	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 406346,

Project ID: 1005-4156

Lab Batch #: 843225

Sample: 406346-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/10/11 23:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.68	10.0	77	70-135	
o-Terphenyl	3.80	5.00	76	70-135	

Lab Batch #: 843225

Sample: 406346-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/10/11 23:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.43	10.0	74	70-135	
o-Terphenyl	3.66	5.00	73	70-135	

Lab Batch #: 843225

Sample: 406303-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 02/11/11 00:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.79	10.0	98	70-135	
o-Terphenyl	4.19	5.00	84	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: House

Work Order #: 406346

Analyst: ASA

Lab Batch ID: 843493

Sample: 595536-1-BKS

Date Prepared: 02/10/2011

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 02/11/2011

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
Analytes	BTEX by EPA 8021B											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	<0.00100	0.100	0.0998	100	0.100	0.0972	97	3	70-125	25	
	Toluene	<0.00200	0.100	0.0969	97	0.100	0.0944	94	3	70-125	25	
	Ethylbenzene	<0.00100	0.100	0.0939	94	0.100	0.0916	92	2	71-129	25	
	m_p-Xylenes	<0.00200	0.200	0.187	94	0.200	0.183	92	2	70-131	25	
	o-Xylene	<0.00100	0.100	0.0965	97	0.100	0.0941	94	3	71-133	25	

Analyst: LATCOR

Lab Batch ID: 843234

Sample: 843234-1-BKS

Date Prepared: 02/11/2011

Batch #: 1

Date Analyzed: 02/11/2011

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Anions by E300		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Fluoride		<0.200	2.00	2.11	106	2.00	1.95	98	8	80-120	20	
Chloride		<0.500	10.0	10.2	102	10.0	10.1	101	1	80-120	20	
Sulfate		<0.500	10.0	10.5	105	10.0	10.4	104	1	80-120	20	
Bromide		<0.500	1.50	1.53	102	1.50	1.53	102	0	80-120	20	

Relative Percent Difference RPD = $200 * [(C-F)/(C+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: House

Work Order #: 406346

Analyst: DAT

Lab Batch ID: 843781

Sample: 595496-1-BKS

Date Prepared: 02/14/2011

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 02/14/2011

Matrix: Water

Units: mg/L

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
Metals per ICP by SW846 6010B												
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Calcium	<0.100	1.00	1.18	118	1.00	1.09	109	8	75-125	25	
	Magnesium	<0.0100	1.00	1.08	108	1.00	1.09	109	1	75-125	25	
	Potassium	<0.500	10.0	9.43	94	10.0	9.84	98	4	75-125	25	
	Sodium	<0.500	11.0	11.4	104	11.0	11.7	106	3	75-125	25	

Analyst: WRU

Lab Batch ID: 843267

Sample: 843267-1-BKS

Date Prepared: 02/10/2011

Batch #: 1

Date Analyzed: 02/10/2011

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Units: mg/L												
TDS by SM2540C		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes												
Total dissolved solids		<5.00	1000	910	91	1000	946	95	4	80-120	30	

Relative Percent Difference RPD = $200 * ((C-F) / ((C+F)))$

Blank Spike Recovery [D] = $100 * (C) / [E]$

Blank Spike Duplicate Recovery [G] = $100 * (F) / [E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: House

Work Order #: 406346

Analyst: BEV

Lab Batch ID: 843225

Sample: 595376-1-BKS

Date Prepared: 02/10/2011

Batch #: 1

Project ID: 1005-4156

Date Analyzed: 02/10/2011

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY														
Units: mg/L	TPH By SW8015 Mod	Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	C6-C12 Gasoline Range Hydrocarbons		<1.50	100	94.1	94	100	91.3	91	3	70-135	25		
	C12-C28 Diesel Range Hydrocarbons		<1.50	100	95.0	95	100	90.1	90	5	70-135	25		

Analytes

Relative Percent Difference $RPD = 200 * (C - F) / (C + F)$
Blank Spike Recovery $[D] = 100 * (C) / [B]$
Blank Spike Duplicate Recovery $[G] = 100 * (F) / [E]$
All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: House

Work Order #: 406346

Lab Batch #: 843234

Date Analyzed: 02/11/2011

Date Prepared: 02/11/2011

Project ID: 1005-4156

Analyst: LATCOR

QC- Sample ID: 406240-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Fluoride	<2.00	20.0	21.4	107	80-120	
Chloride	166	100	268	102	80-120	
Sulfate	76.5	100	162	86	80-120	
Bromide	<5.00	15.0	16.6	111	80-120	

Lab Batch #: 843225

Date Analyzed: 02/11/2011

Date Prepared: 02/10/2011

Analyst: BEV

QC- Sample ID: 406303-002 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	5.24	100	101	96	70-135	
C12-C28 Diesel Range Hydrocarbons	<2.50	100	76.9	77	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: House

Work Order #: 406346

Lab Batch ID: 843493

Date Analyzed: 02/11/2011

Reporting Units: mg/L

Project ID: 1005-4156

QC- Sample ID: 406348-001 S

Date Prepared: 02/10/2011

Batch #: 1 Matrix: Water

Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B										
Benzene	<0.00100	0.100	0.0968	97	0.0946	95	2	70-125	25	
Toluene	<0.00200	0.100	0.0935	94	0.0912	91	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0917	92	0.0887	89	3	71-129	25	
m,p-Xylenes	<0.00200	0.200	0.184	92	0.177	89	4	70-131	25	
o-Xylene	<0.00100	0.100	0.0931	93	0.0906	91	3	71-133	25	

Lab Batch ID: 843781

Date Analyzed: 02/14/2011

Reporting Units: mg/L

QC- Sample ID: 406476-001 S

Date Prepared: 02/14/2011

Batch #: 1 Matrix: Water

Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Metals per ICP by SW846 6010B										
Calcium	7.73	1.00	8.58	85	8.57	84	0	75-125	25	
Magnesium	1.24	1.00	2.24	100	2.21	97	1	75-125	25	
Potassium	10.8	10.0	21.9	111	20.1	93	9	75-125	25	
Sodium	356	11.0	374	164	365	82	2	75-125	25	X

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times (C-F)/(C+F)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Applicable N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$



Sample Duplicate Recovery



Project Name: House

Work Order #: 406346

Lab Batch #: 843234

Date Analyzed: 02/11/2011 11:11

Date Prepared: 02/11/2011

Project ID: 1005-4156

Analyst: LATCOR

QC- Sample ID: 406240-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Fluoride	<2.00	<2.00	NC	20	
Chloride	166	167	1	20	
Sulfate	76.5	76.9	1	20	
Bromide	<5.00	<5.00	NC	20	

Lab Batch #: 843267

Date Analyzed: 02/10/2011 16:00

Date Prepared: 02/10/2011

Analyst: WRU

QC- Sample ID: 406346-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	924	956	3	30	

Spike Relative Difference $RPD = 200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

- ☐ 4143 Greenbriar Drive, Stafford, Tx 77477 281-240-4200
☐ 5332 Backberry Drive, San Antonio, Tx 78238 210-509-3334
☐ 9701 Harry Hines Blvd., Dallas, Tx 75220 214-902-0300



Page of

Serial #: 249973

Lab Only:

Company-City Phone Project ID

ERG-LOGICAL ENVIRONMENTAL 432-520-7535

Previously done at XENCO

House 1005-4156

Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other

Proj. Manager (PM) SCOTT SPRINGER

e-Mail Results to: EPM and

Rose @ Xenco

Invoice to: Accounting

Inc. Invoice with Final Report

Invoice must have a P.O. Bill

to: 509

Quote/Pricing: P.O. No:

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Anna VARGAS Signature

Sample ID

Sampling Date

Time

Depth

Matrix

Composite

Containers

Container Size

Container Type

Preservatives

Relinquished to (Initials and Sign)

Date & Time

Relinquished to (Initials and Sign)

Date & Time

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Date & Time

From:

Recd by:

Date

Remarks

Sample Clean-ups are pre-approved as needed

Hold Samples (Surcharges will apply and are pre-approved)

Addn: PAH above mg/L W.

TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d

Standard TAT is project specific.

It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

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