GW-243

Annual GW Reporting

DATE: 04.04.11



801 South Loop 464 Monahans, Texas 79756

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A II:

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,

facle () 9C(V 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

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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:

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GW-243 HOUSE COMPRESSOR SITE Annual Groundwater Monitoring Report LEA COUNTY NEW MEXICO

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Date Prepared: March 30, 2011

Eco-logical Project Number: 1005-3827

Prepared For: Southern Union Gas Services

Prepared By: Eco-logical Environmental Services, Inc.

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 indentified 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 soil samples indicated the soil was non-impacted soil samples indicated 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.

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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 event. Sulfate concentrations ranged from 162 mg/L during the February2011 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 NMQWCC 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.

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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.

TPH analysis of groundwater is not generally required by NMOCD or NMQWCC 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 consistence 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.

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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		
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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		
	al antique de la companya de la comp	Anna Anna an Anna Anna Anna Anna Anna A				
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 Gauge	d - Obstructio	n
	2/8/2011	3569.25		Not Gauge	ed - Obstructio	'n

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

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Well	Date	Benzene	Toluene	Ethyl- benzene	Xylenes	TPH C6- C12	TPH C12- C28	TPH C28- C35
	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
MW 1	3/25/2010	<0.001	< 0.001	< 0.001	< 0.001	<5.00	<5.00	<5.00
IVI W - I	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
	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
MW_2	3/25/2010	<0.001	<0.001	< 0.001	< 0.001	<5.00	<5.00	<5.00
101 00 -2	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
	and the second se							
	1/19/2008	<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
MW-3	3/25/2010			Not Samp	led - Well (Obstructed		
101 00 -5	7/1/10			Not Samp	led - Well (Obstructed		
	10/29/10			Not Samp	led - Well	Obstructed		
	2/8/11			Not Samp	led - Well (Obstructed		
	OCD limits	0.01	0.75	0.75	0.62		N/A	

Table 3

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CONCENTRATIONS OF ANIONS, CATIONS, AND TOTAL DISSOLVED SOLIDS IN GROUNDWATER

Southern Union

Former House Compressor Station

Lea County, New Mexico

1222	Well	Date	TDS	Fluoride	Chloride	Sulfate	Nitrate	Bromide	Calcium	Magnesium	Potassium	Sodium
		11/19/2008	1100	1.08	197	298	4.77		136	32.2	13.1	182
a ya		6/26/2009	988	1.35	165	247	3.38					
		3/25/2010							132	33.5	8.96	143
	101 00 - 1	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
No.		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					
Ξ.	MW 2	3/25/2010							134	30.1	7.22	187
\$	1VI VV -2.	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
8												
- 22		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					
	MW-3	3/25/2010				1	Not Sample	ed - Well O	bstructed			
\$	IVI W -3	7/1/10	_			<u> </u>	Not Sample	ed - Well O	bstructed			
		10/29/10				1	Not Sample	ed - Well O	bstructed			
		2/8/11]	Not Sample	ed - Well O	bstructed		- <u></u>	
経営												
		OCD limits	1000	1.6	250	600	N/A	N/A	N/A	N/A	N/A	N/A

APPENDICES

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A REPORT OF ALL

Analytical Report 367026

for

Eco-Logical Environmental

Project Manager: Scott Springer

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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,

1. C. M.

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

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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 reanalysis. 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

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1900 9 10 163		Eco-Logical E1	ivironmental, Mie	dland, TX	
Project Id: 1005-4156		Project Na	me: Eco-Logical Pr.	icing	
Contact: Scott Springer				Date Received in Lab: Fn	i Mar-26-10 03:13 pm
Project Location: Texas				Report Date: 05- Proiect Manager: Bre	-APR-10 ent Barron, 11
	Lab Id:	367026-001	367026-002		
	:				
Analysis Reauested	Field Id:	House MW-2	House MW-3		
	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Mar-25-10 10:00	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		
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		
Metals per ICP by SW846 6010B	Extracted:	Mar-31-10 06:30	Mar-31-10 06:30		
SUB: T104704295-TX	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		-
Potassium		7.22 0.500	8.96 0.500		
Sodium		187 0.500	143 0.500		
Total Petroleum Hydrocarbons by	Extracted:	Mar-27-10 13:30	Mar-27-10 13:30		
Texas 1005	Analyzed:	Mar-29-10 11:50	Mar-29-10 12:20		
	Units/RL:	mg/L RL	mg/L RL	· · · · · · · · · · · · · · · · · · ·	
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		••••••

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This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed through this analytical report represent the best signement of XENCO Laboratories. XENCO Laboratories assumes to 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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Final Ver. 1.000

Page 5 of 15

Brent Barron, II Odessa Laboratory Manager

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- 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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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116
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Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Vork Orders : 36702	6,		Project II): 1005-4156	ó	
Lab Batch #: 800456	Sample: 559483 -1-BKS/BK	S Batch:	ROGATE RE	COVERY	STUDY	
Units: mg/L BTH	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 / BSI) Batch:	1 Matrix	Water	·	
Units: mg/L	Date Analyzed: 03/30/10 22:57	SUR	ROGATE RI	ECOVERY	STUDY	
BTH	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 / BL	K Batch	1 Matrix	Water		
Units: mg/L	Date Analyzed: 03/30/10 23:59	SUR	ROGATE RI	ECOVERY	STUDY	<u></u>
BTH	EX 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		0.0238	0.0300	79	80-120	*
Lab Batch #: 800456	Sample: 367026-001 / SMP	Batch	1 Matrix	Water	1	
Units: mg/L	Date Analyzed: 03/31/10 05:29	SUR	ROGATE RI	ECOVERY	STUDY	
BTH	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R (D)	Control Limits %R	Flags
1 4-Difluorobenzene	Analytes	0.0284	0.0300	05	80.120	
4-Bromofluorobenzene		0.0352	0.0300	117	80-120	
Lab Batch #• 800456	Sample: 367026-002 / SMP	Batch	· 1 Matrix	Water	(i
Units: mg/L	Date Analyzed: 03/31/10 05:50	SUR	ROGATE RI	ECOVERY	STUDY	<u></u> _
BTH	EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0284	0.0300	95	80-120	
4-Bromofluorobenzene		0.0257	0.0200	110		

* 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.



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Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Work Orders : 367026 Lab Batch #: 800456	5, Sample: 366989-002 S / MS	Batch:	Project II 1 Matrix	D: 1005-4156 : Water	5	
Units: mg/L	Date Analyzed: 03/31/10 06:52	SURI	ROGATE RI	ECOVERY	STUDY	
BTI	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 / N	ASD Batch:	l Matrix	:Water		
Units: mg/L	Date Analyzed: 03/31/10 07:13	SURI	ROGATE RI	ECOVERY	STUDY	<u></u>
BTE	EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R (D)	Control Limits %R	Flags
1 4-Difluorobenzene	Analytes	0.0291	0.0300	07	80-120	
4-Bromofluorobenzene		0.0227	0.0300	76	80-120	*
Lab Batch #: 800123	Sample: 559258-1-BKS/B	KS Batch	1 Matrix	•Water	l	L
Units: mg/L	Date Analyzed: 03/27/10 16:26	SURI	ROGATE RI	ECOVERY	STUDY	
Total Petroleum	Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes					
1-Chlorooctane		5 20	5.00	117	70-135	
		3.39	5.00	108	70-135	
Lab Batch #: 800123	Sample: 559258-1-BSD / B	SD Batch:	I Matrix	: Water	STUDY	
Units: mg/L	Date Analyzed: 03/27/10 16:56	SURI				·
Total Petroleum	Hydrocarbons by Texas 1005	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
L-Chlorooctane	Analytes	12.1	10.0	121	70,135	
o-Terphenyl		5.64	5.00	113	70-135	
Lab Batch #: 800123	Sample: 559258-1-BLK / B	IK Batch:	1 Matrix	·Water	<u> </u>	(
Units: mg/L	Date Analyzed: 03/27/10 17:28	SURI	ROGATE R	ECOVERY	STUDY	- <u></u>
Total Petroleum	Hydrocarbons by Texas 1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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.



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Form 2 - Surrogate Recoveries

Project Name: Eco-Logical Pricing

Work Orders : 367026	,),		Project I	D: 1005-4156	5	
Lab Batch #: 800123	Sample: 367026-001 / SMP	Batc	h: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 03/29/10 11:50	SU	RROGATE RI	ECOVERY	STUDY	
Total Petroleum I	Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	Batc	h: l Matrix	:Water		
Units: mg/L	Date Analyzed: 03/29/10 12:20	SU	RROGATE R	ECOVERY	STUDY	
Total Petroleum I	Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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	Batc	h: ¹ Matrix	:Water	l	
Units: mg/L	Date Analyzed: 03/29/10 12:51	SU	RROGATE R	ECOVERY	STUDY	
Total Petroleum I	Iydrocarbons by Texas 1005 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		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.

BS / BSD Recoveries



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Project Name: Eco-Logical Pricing

Work Order #: 367026 Lab Batch ID: 800456 Analyst: ASA

Date Prepared: 03/30/2010 Batch #:]

Sample: 559483-1-BKS

Project ID: 1005-4156 Date Analyzed: 03/30/2010 Matrix: Water

Units: mg/L			BLAN	K /BLANK S	PIKE / E	ILANK S	PIKE DUPI	ICATE]	RECOVE	RY STUD	Y	
BTEX by EI	A 8021	Blank Sample Result 1Al	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		<u> </u>	[B]	[C]		[E]	Result [F]	0	2			
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	67	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		Da	te Prepare	ed: 03/31/201	0			Date Ai	nalyzed: 0	4/01/2010		
Lab Batch ID: 800712	Sample: 559412-1-B	KS	Batch	u #: 1					Matrix: V	Vater		

Units: mg/L		BLAN	K /BLANK S	SPIKE / B	LANK S	PIKE DUPL	ICATE]	RECOVE	RY STUD	Y	
Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	ā	[E]	Result [F]	<u></u>				
Calcium	<0.100	1.00	0.949	95	1	0.933	93	2	75-125	25	
Magnesium	<0.010	1.00	1.06	901	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

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Project Name: Eco-Logical Pricing

Sample: 559258-1-BKS Work Order #: 367026 Lab Batch ID: 800123 Analyst: BEV

Date Prepared: 03/27/2010 Batch #: 1

Project ID: 1005-4156 Date Analyzed: 03/27/2010 Matrix: Water

Units: mg/L		BLAN	K /BLANK S	PIKE / F	ILANK S	PIKE DUPI	ICATE I	RECOVE	RY STUD	Y	
Total Petroleum Hydrocarbons by Texas 1005	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[<u>C</u>]	a	[E]	Result [F]	[0]				
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	61	100	77.5	78		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

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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

Project ID: 1005-4156

Date Prepared: 03/27/2010 Batch #:

1

Analyst: BEV

Matrix:	Water

Reporting Units: mg/L	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	IJDY
TPH by Texas1005	Parent Sample Result	Spike Added (B)	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes		נמן				
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	

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries 法教育 のない

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Project Name: Eco-Logical Pricing



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Work Order #: 367026

Date Analyzed: 03/31/2010 Lab Batch ID: 800456 Reporting Units: mg/L

-Batch #:

Project ID: 1005-4156 Matrix: Water

> QC- Sample ID: 366989-002 S Date Prepared: 03/30/2010

ASA Analyst: MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

RTFY by FDA 8031	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
TZUU AL LA VILLA	Sample	Spike	Result	Sample	Spike	Spiked Sample	Dup.	RPD	Limits	Limits	Flag
	Result	Added	[]	%R	Added	Result [F]	%R	%	%К	%RPD	
Analytes	[A]	[B]		ē	Ξ		<u>5</u>				
Benzene	0.0021	0.1000	0.0851	83	0.1000	0.0732	11	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 Q	C- Sample ID:	366935-	-001 S	Bai	ch #:	l Matrix	c: Water				
Date Analyzed: 04/01/2010	Date Prepared:	03/31/20	010	Апа	ulyst: I	DAT					

Reporting Units: mg/L		M	ATRIX SPIKI	E / MAT)	RIX SPII	KE DUPLICA'	TE RECO	VERY S	TUDY		
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	001	1.00	178	0	7	75-125	25	×
Magnesium	11.1	1.00	12.5	140	1.00	12.2	110	2	75-125	25	×
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))

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

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

Page 13 of 15

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EVCO 143 Greenbrin Drive, Stafford, Tr 77477 281-240-4200 EVCO 5332 Blackberry Drive, San Antonio, Tr 782-38 210-569-3 Euconecies, Inc. 9701 Harry Hines Blvd., Dallas, Tr 75220 214-902-0300 anny-City 9701 Harry Hines Blvd., Dallas, Tr 75220 214-902-0300 anny-City 9701 Harry Hines Blvd., Dallas, Tr 75220 214-902-0300 anny-City 9701 Harry Hines Blvd., Dallas, Tr 7520 214-902-0300 anny-City 9701 Harry Hines Blvd., Dallas, Tr 7520 214-902-0300 anne-Location R Previously done at XENCO Phone A. Sc., TN, UT Other A. Sc., TN, UT Other A. Sc., TN, UT Other Results to PM and PA 20, H. Sc., A. Sc	1334 L		AN	ALYSIS REQUE:	ST & CHAIN OF	CUSTODY		
Any-City Enuited Antice Phone		T 842 Carhuel	-20 East, Odessa, Tx 7 Comus Christi Tx 78	19765 432-569-1800 408.361-884-0371	Serial #:	24589	5 Page]ج
Varne-Location & Previously done al XENCO Project ID State: (C)AL, FL, GA, LA, MS, NC, Proj. Manager (PM) A, SC, TN, UT Other I Results to [] PM and	2535	ab Only: 3	92019					
Skate: (X) AL, FL, GA, LA, MS, NC, Proj. Manager (PH) A, SC, TN, UT Other Results to DPM and Fax Mo:	tiste "	AT: ASAP 5h is typically 5-7	12h 24h 48h 3 Working Days for ^I	id 5d 7d 10d 21 evet li and 10+ Work	d Standard TAT is p ng days for level III a	project specific ind IV data.		
Results to DPM and Fax No:			(s85)			بو) الا الا	Remarks	
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er Name Swatt SNINE DV Signature 200 000	Kers	CHO DM	DW B P 282 ASCRA- ASCRA-	5		е е 152	e sdn-	
Sample (D) Sample (D) Date atrix atrix atrix	Containers Sintainer Size Sintainer Type eservatives	ALIOCS: FUILLIA	PLP - TCLP (Petals: RCRA-8 PLP - TCLP (DB/DBCP	· · · · · · · · · · · · · · · · · · ·	AB GASA TAT vode HAG :nbbA	nseiD eiqmsS	:ubbA
25 m-w 2 3/35/10 1000 W			S V D S					
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indvished by (Initials and Sign) Date & Time Relin	quished to (Initials a	nd Sign)	Date & Time	Total Containers pe		Cooler Temp:		Τ
(1) algues 3/2410 3(13 2)	hu L.	3	12410 313	Upon signings this CO agreed on writing. Rep will be held 30 days si Charges and Collection	C you accept XENCO te orts are the intellectual i ter final report is e-maile i Fees are pre-approved	ims and Conditi Property of XEN of unless hereb) 5 if needed.	ons unless other CO until paid. Sa requested. Rus	wise
vatives: Various (V), HC pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), / itze: 402 (4), 802 (8), 3202 (32), 40ml VOA (40), 1L (1), 500ml (5), Tedl	Asbc Acid&NaOH(A) lar Bag (B), Various (, ZnAc&NaOH V), Other	(Z), (Cool, <4C) (C Cont.), None (NA), See L Type: Glass Amb (abel (L), Other (O) A), Glass Clear (C),	Plastic (P).	arious (V)	ſ
Air (A), Product (P), Sokd(S), Water (W), Liquid (L) (): 12 ran	when the voa	S for ea	Excellence in	Service and Que	lity	www.xenc	o.com	

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Final Ver. 1.000

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

3:13

Ecological Environmental Client: Date/ Time: Lab ID # :

26/10

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Initials:

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Sample Receipt Checklist

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

Variance Documentation

Contact:

Contacted by:

Date/ Time:

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Regarding:

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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

Final Ver. 1.000

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	Sodiı	182			142	163	138		237		187	183	190	16(255	1	14					Ń
	Potassium	13.1			7.53	8.98	8		12.4	1	7.22	6.05	6.49	6.47		14.7	1	8.96					N/A
	Magnesium	32.2	1		33.9	37.2	35		31.2		30.1	30	30.6	30.2		36.7	1	33.5					N/A
	Calcium	136			138	143	141		935	1	134	137	123	138		166	-	132					N/A
	Bromide	1	1		;	1.4	<5.00			1	1		1.34	<5.00									
	Nitrate	4.77	3.38		1	-			935	3.37	-					5.48	5.08						
	Sulfate	298	247		1	202	162		322	255	:	-	209	177		296	267	1					600
s u	Chloride	197	165	ed	177	206	186		935	260	1	188	211	194		436	412	1	Obstructed	Obstructed	Obstructed		1000
ıter Analysi nion ressor Stat v Mexico	Fluoride	1.08	1.35	Not Sampl		1.62	<2.00		<1.00	1.3	1	-	1.55	<2.00		<1.00	2.32		npled - Well	npled - Well	npled - Well		1.6
oundwa thern U e Comp aty, Nev	TDS	1100	988		972	964	924		2300	1130		1030	968	914		1390	1310		Not Sar	Not Sar	Not Sar		250
Table 2- Gr Sou irmer Hous Lea Cour	TPH C28- C35	N/A	N/A		<1.50	<1.50	<1.50		N/A	N/A	<5.00	<1.50	<1.50	<1.50		N/A	N/A	<5.00					
· Ľ	TPH C12- C28	<5.00	<5.00		<1.50	<1.50	<1.50		<5.00	<5.00	<5.00	<1.50	<1.50	<1.50		<5.00	<5.00	<5.00					N/A
	TPH C6- C12	0.212	<0.100		<1.50	<1.50	<1.50		<0.100	<0.100	<5.00	<1.50	<1.50	<1.50		<0.100	<0.100	<5.00					
	Xylenes	0.0146	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	0.016	<0.001					0.62
	Ethyl- benzene	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001					0.75
	Toluene	0.0068	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	0.061	<0.001					0.75
	Benzene	0.027	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001					0.01
	Date	11/19/2008	6/26/2009	3/25/2010	7/1/10	10/29/10	2/8/11		11/19/2008	6/26/2009	3/25/2010	7/1/10	10/29/10	2/8/11		11/19/2008	6/26/2009	3/25/2010	7/1/10	10/29/10	2/8/11		OCD limits
	Well			L	MW-1			L		L	L	MW-2	L	<u> </u>	L			L	MW-3	ı	L	L	

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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) 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), Florida(E86349)



16-JUL-10

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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

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America MENCO Laboratories

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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





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

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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

		Eco-Logical En	vironmental, Midl	ind, TX	
Project Id: 1005-4156		Proj	ect Name: House		
Contact: Scott Springer		1		Date Received in Lab: 7	Tue Jul-06-10 09:00 am
oject Location: NM				Report Date: Project Manager: F	16-JUL-10 Brent Barron 11
	Lab Id:	380156-001	380156-002		
	Eight Id.	NAUL 1		-	
Analysis Requested	Lieta Iu: Depth:	1 - M M	7- M M		
	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		
Foluene		BRL 0.0020	BRL 0.0020		
Ethylbenzene		BRL 0.0010	BRL 0.0010		
n,p-Xylenes		BRL 0.0020	BRL 0.0020		
-Xylene		BRL 0.0010	BRL 0.0010		
(ylenes, Total		BRL 0.0010	BRL 0.0010		
otal 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 SUB: T104704215-TX	Units/RL:	mg/L RL	mg/L RL		
Calcium		138 0.500	137 0.500		
Magnesium		33.9 0.500	30.0 0.500		
otassium		7.53 0.300	6.05 0.300		
todium		142 0.500	183 0.500		
TDS by SM2540C	Extracted:	00.21.01.201.1	101 201		
	Anutyzeu. Hnite/RL:		me/L, RL		
Total dissolved solids		972 5.00	1030 5.00		

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Page 5 of 18

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Eco-Logical Environmental, Midland, TX

Project Name: House



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Contact: Scott Springer Project Id: 1005-4156 **Project Location: NM**

Date Received in Lab: Tue Jul-06-10 09:00 am Report Date: 16-JUL-10

						Project Manager:	Brent Barron, II	
	Lab Id:	380156-00	1	380156-002				
Augheric Domostod	Field Id:	I-WM		MW-2				
naisan hay sistinuy	Depth:							
	Matrix:	WATER		WATER				
	Sampled:	Jul-01-10 16	:40	Jul-01-10 17:	10			
TPH by SW8015 Mod	Extracted:	Jul-07-10 10	:30	Jul-07-10 10:	30			
	Analyzed:	Jul-07-10 15	:16	Jul-07-10 15:	46			
	Units/RL:	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 tepresents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best juggment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our Hability is limited to the amount invoited for this work order unless otherwise agreed to in writing.

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

Odessa Laboratory Manager Brent Barron, II

Final 1.000



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.

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- 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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12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
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Form 2 - Surrogate Recoveries

Project Name: House

Vork Orders : 380156	5, Sample: 567462-1-BKS / BK	S Batch:	Project II	D: 1005-4156 : Water	j	
Units: mg/L	Date Analyzed: 07/06/10 16:16	SURF	ROGATE RI	ECOVERYS	STUDY	
BTE	CX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorobenzene	Analytes	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene		0.0306	0.0300	102	80-120	
Lah Batch #• 813595	Sample: 567462-1-BSD / BS	D Batch	1 Matrix	·Water		
Units: mg/L	Date Analyzed: 07/06/10 16:38	SURF	ROGATE RI	ECOVERYS	STUDY	
BTE	CX by EPA 8021	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 / BL	K Batch:	1 Matrix	:Water	!I	
Units: mg/L	Date Analyzed: 07/06/10 18:07	SURI	ROGATE R	ECOVERY	STUDY	
BTE	EX by EPA 8021	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	l Matrix	·Water		
Units: mg/L	Date Analyzed: 07/06/10 18:29	SURF	ROGATE RI	ECOVERY	STUDY	
BTE	CX 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:	i Matrix	:Water		
Units: mg/L	Date Analyzed: 07/06/10 18:52	SURF	ROGATE RI	ECOVERY	STUDY	
BTE	X 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	<u> </u>
1 Promofluorateman				<u> </u>		

* 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.

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Form 2 - Surrogate Recoveries

Project Name: House

Ork Orders : 380156 Lab Batch #: 813595	5, Sample: 380158-001 S / MS	Batch	Project II): 1005-4156 Water	5	
Units: mg/L	Date Analyzed: 07/06/10 21:30	SUI	RROGATE RI	ECOVERY	STUDY	
BTE	CX 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 / M	ISD Batch	n: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 07/06/10 21:52	SUI	RROGATE RI	ECOVERY	STUDY	
BTE	CX 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 / BI	KS Batch	n: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 07/07/10 13:19	SUI	RROGATE RI	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Chloresetere		11.6		116	70.125	
o-Tetphenyl		6.26	5.00	125	70-135	
Lab Datab # 912779	S	5D B-4-1	. 1 Matrix	Water	/0 155	
Lab Batch #: 015770	Data Analyzada 07/07/10 14/18		RROGATE RI	ECOVERY	STUDY	
	Date Analyzed: 07/07/10 14:18					
ТРН	by SW8015 Mod Analytes	Amount Found [A]	Amount [B]	Recovery %R [D]	Limits %R	Flags
I-Chlorooctane		12.3	10.0	123	70-135	
o-Terphenyl		6.57	5.00	131	70-135	
Lab Batch #: 813778	Sample: 567567-1-BLK / B	LK Batch	n: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 07/07/10 14:47	SUI	RROGATE RI	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	v	11.4	10.0	114	70-135	
				1	1	

* 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.



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Form 2 - Surrogate Recoveries

Project Name: House

Vork Orders : 380156			Project II	D:1005-4156	5	
Lab Batch #: 813778	Sample: 380156-001 / SMP	Bate	h: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 07/07/10 15:16	SU	RROGATE RI	ECOVERY	STUDY	_
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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	Bate	h: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 07/07/10 15:46	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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	Batc	h: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 07/07/10 18:43	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	by SW8015 Mod	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.



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Project Name: House

Work Order #: 380156			Pi	roject ID:		10	05-4156
Lab Batch #: 814788	Sample: 5	68114	-1-BKS	Matrix	: Water		
Date Analyzed: 07/15/2010 Date	te Prepared: 0	7/15/2	010	Analyst	: HAT		
Reporting Units: mg/L	Batch #:	1	BLANK /	BLANK SP	KE REC	COVERY S	STUDY
Inductively Coupled Plasma Atomic Emissio	on Sp Blan Rest [A	nk ult]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes				[C]	[D]		
Calcium	<0.5	00	3.00	2.63	88	75-125	
Magnesium	< 0.5	00	3.00	3.12	104	75-125	
Potassium	< 0.3	00	2.00	2.03	102	75-125	
Sodium	<0.5	00	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.

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Project Name: House

Work Order #: 380156 Analyst: ASA Lab Batch ID: 813595

Date Prepared: 07/06/2010 Batch #: 1

Sample: 567462-1-BKS

Project ID: 1005-4156 Date Analyzed: 07/06/2010 Matrix: Water

Units: mg/L			BLAN	<pre></pre>	PIKE / B	LANK S	PIKE DUPL	LCATE 1	KECOVE	CRY STUD	ł	
BTEX by EP	A 8021	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[c]	[D]	[E]	Result [F]	[0]				
Benzene		<0.0010	0.1000	0.0978	98	0.1	0.1039	104	9	70-125	25	}
Toluene		<0.0020	0.1000	0.0909	16	0.1	0.0957	96	5	70-125	25	
Ethylbenzene		<0.0010	0.1000	0.0954	95	0.1	0.1011	101	9	71-129	25	
m,p-Xylenes		<0.0020	0.2000	0.1923	96	0.2	0.2043	102	9	70-131	25	
o-Xylene		<0.0010	0.1000	0.0955	96	0.1	0.1015	102	6	71-133	25	
Analyst: LATCOR		Da	te Prepare	d: 07/06/201	0			Date Ar	alyzed: 0	7/06/2010		
Lab Batch ID: 813583	Sample: 813583-1-B	KS	Batch	#: 1					Matrix: V	Vater		

LAU DAICH IU: 010000	I-I-COCCIO :aidure	CVC	DALCI	1 .41								
Units: mg/L			BLAN	K /BLANK §	SPIKE / B	LANK S	PIKE DUPL	JCATE F	RECOVE	RY STUD	Y	
Anions in Water	by EPA 300	Blank Sample Result	Spike Added	Blank Spike Docult	Blank Spike	Spike Added	Blank Spike Durdisete	Bik. Spk Dup. %D	RPD */	Control Limits %P	Control Limits % PPD	Flag
Analytes		E	[8]		[0]	[E]	Result [F]	<u>[</u>]		YIN/		
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 Final 1.000

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Sample: 813789-1-BKS Work Order #: 380156 Lab Batch ID: 813789 Analyst: WRU

Date Prepared: 07/06/2010

Batch #: 1

Project ID: 1005-4156 Date Analyzed: 07/06/2010 Matrix: Water

Units: mg/L		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	
TDS by SM2540C	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	<u>[</u>]	[E]	Result [F]	ত্র				
Total dissolved solids	<5.00	1000	936	94	1000	956	96	2	80-120	30	
Analyst: BEV	Da	te Prepar	ed: 07/07/201	0			Date Ar	alyzed: 0	7/07/2010		

Matrix: Water

Batch #: 1

Sample: 567567-1-BKS

Lab Batch ID: 813778

Units: mg/L		BLANI	K /BLANK S	PIKE / B	LANK S	PIKE DUPI	ICATE F	RECOVE	RY STUD	Y	
TPH by SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike Recult	Blank Spike %B	Spike Added	Blank Spike Dunticate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	<u>.</u>	[B]	[C]	ξĒ.	[E]	Result [F]	(5	2			
C6-C12 Gasoline Range Hydrocarbons	<1.50	100	99.2	66	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

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Form 3 - MS Recoveries

Project Name: House



Project I	Name: House					24 8 . 2
Work Order #: 380156 Lab Batch #: 813583 Date Analyzed: 07/06/2010	Date Prenared: 07/0)6/2010	Pr	oject ID: Analyst: L	1005-4156 ATCOR	
QC- Sample ID: 380156-001 S	Batch #: 1		ļ	Matrix: V	Vater	
Reporting Units: mg/L	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	D Y
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Anglytes	[,					
Chloride	177	200	403	113	90-110	
Chloride Lab Batch #: 813778	177	200	403	113	90-110	X
Chloride Lab Batch #: 813778 Date Analyzed: 07/07/2010	177 Date Prepared: 07/0	200	403	113 Analyst: B	90-110 BEV	
Chloride Lab Batch #: 813778 Date Analyzed: 07/07/2010 QC- Sample ID: 380156-001 S	Date Prepared: 07/0 Batch #: 1	200	403 A	113 Analyst: B Matrix: V	90-110 BEV Vater	
Chloride Lab Batch #: 813778 Date Analyzed: 07/07/2010 QC- Sample ID: 380156-001 S Reporting Units: mg/L	Date Prepared: 07/0 Batch #: 1 MAT	200 07/2010 RIX / MA	403 A TRIX SPIKE	113 Analyst: B Matrix: V & RECO	90-110 BEV Vater VERY STU	J D Y
Chloride Lab Batch #: 813778 Date Analyzed: 07/07/2010 QC- Sample ID: 380156-001 S Reporting Units: mg/L TPH by SW8015 Mod Analytes	Date Prepared: 07/0 Batch #: 1 MAT Parent Sample Result [A]	200)7/2010 RIX / MA Spike Added [B]	403 A TRIX SPIKE Spiked Sample Result [C]	113 Analyst: B Matrix: V RECO %R [D]	90-110 BEV Vater VERY STU Control Limits %R	JDY Flag
Chloride Lab Batch #: 813778 Date Analyzed: 07/07/2010 QC- Sample ID: 380156-001 S Reporting Units: mg/L TPH by SW8015 Mod Analytes C6-C12 Gasoline Range Hydrocarbons	Date Prepared: 07/0 Batch #: 1 MAT Parent Sample Result [A] <1.50	200 07/2010 RIX / MA Added [B] 100	403 A TRIX SPIKE Spiked Sample Result [C] 103	113 Analyst: B Matrix: V RECO %R [D] 103	90-110 BEV Vater VERY STU Limits %R 70-135	JDY Flag

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries 2.3-35 2,20,20 語のア

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Project Name: House



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Project ID: 1005-4156

QC- Sample ID: 380158-001 S Date Prepared: 07/06/2010

Date Analyzed: 07/06/2010

Reporting Units: mg/L

Work Order #: 380156 Lab Batch ID: 813595

Matrix: Water •----ASA Analyst: Batch #:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Parent Sample	Spike	Spiked Sample Result	Spiked	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	ם	%R [0]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	D
Benzene	<0.0010	0.1000	0.0881	88	0.1000	0.0887	89	-	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 Date Analyzed: 07/15/2010	QC- Sample ID: Date Prepared:	381504- 07/15/2(001 S 010	Ba An	tch #: alyst:]	l Matrix HAT	: Water				

Reporting Units: mg/L		X	ATRIX SPIKI	E/MAT	RIX SPI	KE DUPLICA	FE RECO	VERY 5	STUDY		
Inductively Coupled Plasma Atomíc Emission Spectroscopy Mass Spectrometry	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 Límits %R	Control Limits %RPD	Flag
Calcium	29.5	3.00	31.7	73	3.00	31.5	67	-	75-125	25	×
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	Э	75-125	25	

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

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

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

Final 1.000

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Sample Duplicate Recovery



Project Name: House

WOIR Older #. 580150					
Lab Batch #: 813583			Project IJ	D: 1005-415	6
Date Analyzed: 07/06/2010 Date Prepar	ed: 07/06/2010	Ana	lyst:LATC	OR	
QC- Sample ID: 380156-001 D Batch	n #: 1	Mat	trix: Water		
Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLICA	ATE RECO	OVERY
Anions in Water by EPA 300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	177	188	6	20	
Lab Batch #: 814788	<u></u>			i	
Date Analyzed: 07/15/2010 Date Prepar	ed: 07/15/2010	Ana Ana	lyst:HAT		
QC- Sample ID: 381504-001 D Batch	h#: 1	Mar	trix: Water		
Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE RECO	OVERY
Inductively Coupled Plasma Atomic Emission Spectroscopy Mass Spectrometry	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
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		20	
	20.1			20	
Lab Batch #: 813789					
Lab Batch #: 813789 Date Analyzed: 07/06/2010 Date Prepar	red: 07/06/2010	Ana	lyst: WRU		<u> </u>
Lab Batch #: 813789 Date Analyzed: 07/06/2010 Date Prepar QC- Sample ID: 380156-001 D Batch	red: 07/06/2010	Ana Mat	lyst: WRU trix: Water		<u>NVFDV</u>
Lab Batch #: 813789 Date Analyzed: 07/06/2010 Date Prepar QC- Sample ID: 380156-001 D Batch Reporting Units: mg/L	red: 07/06/2010 h #: 1 SAMPLE /	Ana Ma SAMPLE	llyst: WRU trix: Water DUPLICA	ATE RECO	OVERY
Lab Batch #: 813789 Date Analyzed: 07/06/2010 Date Prepar QC- Sample ID: 380156-001 D Batcl Reporting Units: mg/L TDS by SM2540C Analyte	red: 07/06/2010 h #: 1 SAMPLE / Parent Sample Result [A]	Ana Ma: SAMPLE Sample Duplicate Result [B]	Ilyst: WRU trix: Water DUPLIC:	ATE RECO Control Limits %RPD	OVERY Flag

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Page 17 of 18

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XENCO Laboratories

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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-In

Client: Eco-Logical Uniranm	ental
Date/Time: 07-06-10 @ 0900	
Lab ID #: 380156	
Initials: JMF	

Sample Receipt Checklist

1. Samples on ice?	E	Blue	Water	No	
2. Shipping container in good condition?	\Box	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?		Yes	No	(N/A)	
4. Chain of Custody present?	<u> </u>	(85)	No		
5. Sample instructions complete on chain of custody?	4	(95)	No		
6. Any missing / extra samples?		Yes	(No)		
7. Chain of custody signed when relinquished / received?		Yes	No		<u>.</u>
8. Chain of custody agrees with sample label(s)?	Ċ	Tes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?	S	Yes	No		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s)?	5	Yes	No		
15. All samples received within sufficient hold time?	5	Yes	No		
16. Subcontract of sample(s)?		Yes	(No)	N/A	
17. VOC sample have zero head space?		Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Coc	ler 4 No	o.	Cooler 5 No.	
lbs 3./ °C lbs °C lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contacted by:_____ Date/Time:_____ Contact:___ 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) 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: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

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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)

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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,

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Brent Barron, II Odessa Laboratory Manager

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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



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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

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		Eco-Logical Er	ivironmental, Mid	lland, TX	
Project Id: 1005-3826		Proj	ect Name: House		
Contact: Scott Springer				Date Received in Lab: Mor	n Nov-01-10 11:58 am
Project Location:				Report Date: 08- ^h	NOV-10
	r - L 1 J.	100 001	105402 002	Project Manager: Bren	nt Barron, II
<u> </u>	Lab Ia:	100-049040	700-564666		
Andlysis Roginostod	ield Id:	I-WM	MW-2		
	Depth:				
M	Matrix:	WATER	WATER		
Sam	:mpled:	Oct-29-10 13:15	Oct-29-10 13:15		
Anions by E300 Extr	tracted:				
Апа	alyzed:	Nov-02-10 12:55	Nov-02-10 12:55		
Uni	its/RL:	mg/L RL	mg/L RL		
Fluoride		1.62 0.200	1.55 0.200		
Chloride		206 0.500	211 0.500		
Sulfate		202 0.500	209 0.500		
Bromide		1.40 0.500	1.34 0.500		
BTEX by EPA 8021B Extri	tracted:	Nov-04-10 09:00	Nov-04-10 09:00		
Ana	alyzed:	Nov-04-10 21:40	Nov-04-10 22:43		
Unit	iits/RL:	mg/L RL	mg/L RL		
Benzene		ND 0.0010	ND 0.0010		
Toluene		ND 0.0020	ND 0.0020		
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 Extra	tracted:	Nov-04-10 12:50	Nov-04-10 12:50		
SUB: T104704215-TX Ana	alyzed:	Nov-05-10 15:21	Nov-05-10 15:50		
Uni	its/RL:	mg/L RL	mg/L RL		
Calcium		143 0.500	123 0.500		
Magnesium		37.2 0.500	30.6 0.500		
Potassium		8.98 0.300	6.49 0.300		
Sodium		163 D 50.00	190 D 50.00		

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<u>વિગ્ન સંગાલક</u>		Eco-Logical E1	nvironmental,	Midland, TX	
Project Id: 1005-3826		Proj	ect Name: Hou	use	
Contact: Scott Springer				Date Received in Lab: Mo	n Nov-01-10 11:58 am
Project Location				Report Date: 08-	01-JON
				Project Manager: Bre	nt Barron, II
	Lab Id:	395493-001	395493-002		
	Field Id:	MW-1	MW-2		
Analysis Kequesiea	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	mg/L R		
Total dissolved solids		964 5.00	968 5.0	00	
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	mg/L R	T	
C6-C12 Gasoline Range Hydrocarbons		ND 1.50	ND 1.5	0	
C12-C28 Diesel Range Hydrocarbons		ND 1.50	ND 1.5	0	
C28-C35 Oil Range Hydrocarbons		ND 1.50	ND 1.5	0	
Total TPH		ND 150	ND 1.5	09	

This analytical report, and the entite data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the besi juggment 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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Odessa Laboratory Manager Brent Barron, II

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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

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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

Vork Orders : 395493	3, Samula: 577933-1-BKS/BKS	Batch:	Project II Matrix): 1005-3826 Water)	
Units: mg/L	Date Analyzed: 11/04/10 13:33	SURF	ROGATE RI	ECOVERY S	STUDY	<u> </u>
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
14.5.0	Analytes				00.100	
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromonuorobenzene		0.0287	0.0300	90	80-120	
Lab Batch #: 830631	Sample: 577933-1-BSD / BSD	Batch:	1 Matrix	Water		
Units: mg/L	Date Analyzed: 11/04/10 13:55	SURF	ROGATE RI	ECOVERYS	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Fla
	Analytes			[U]		
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	}
4-Bromofluorobenzene		0.0261	0.0300	87	80-120	i
Lab Batch #: 830631	Sample: 577933-1-BLK / BLk	Batch:	1 Matrix	Water		
Units: mg/L	Date Analyzed: 11/04/10 14:37	SURF	ROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Fla
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	SURF	ROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Fla
	Analytes					1
1,4-Difluorobenzene	Analytes	0.0240	0.0300	80	80-120	
1,4-Difluorobenzene 4-Bromofluorobenzene	Analytes	0.0240	0.0300	80 83	80-120 80-120	
1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 830631	Analytes Sample: 395498-004 SD / MS	0.0240 0.0248 D Batch:	0.0300 0.0300 1 Matrix	80 83 Water	80-120 80-120	
1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 830631 Units: mg/L	Analytes Sample: 395498-004 SD / MS Date Analyzed: 11/04/10 19:10	0.0240 0.0248 D Batch: SURF	0.0300 0.0300 1 Matrix ROGATE RJ	80 83 Water	80-120 80-120 STUDY	
1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 830631 Units: mg/L BTE	Analytes Sample: 395498-004 SD / MS Date Analyzed: 11/04/10 19:10 X by EPA 8021B Analytes	0.0240 0.0248 D Batch: SURF Amount Found [A]	0.0300 0.0300 1 Matrix ROGATE RI True Amount [B]	80 83 Water ECOVERY S Recovery %R [D]	80-120 80-120 STUDY Control Limits %R	Fla
1,4-Difluorobenzene 4-Bromofluorobenzene Lab Batch #: 830631 Units: mg/L BTE	Analytes Sample: 395498-004 SD / MS Date Analyzed: 11/04/10 19:10 X by EPA 8021B Analytes	0.0240 0.0248 D Batch: SURF Amount Found [A]	0.0300 0.0300 1 Matrix. ROGATE RJ True Amount [B]	80 83 Water ECOVERY S Recovery %R [D]	80-120 80-120 STUDY Control Limits %R	Fla

* 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.



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Form 2 - Surrogate Recoveries

Project Name: House

ork Orders : 395493	Samelar 205403-001 / SMP	Batah	Project II Matrix	D: 1005-3826)	
Lao Balen #: 050051	Date Analyzed: 11/04/10 21:40	SUR	ROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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:	l Matrix	:Water		
Units: mg/L	Date Analyzed: 11/04/10 22:43	SUR	ROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
14 D'Annaharan	Analytes		0.0200		00.120	
4-Bromofluorobenzene		0.0224	0.0300	02	80-120	
		0.0280	0.0500		80-120	
Lab Batch #: 830248	Sample: 577712-1-BKS7B	KS Batch:	Matrix	: Water	STUDY	
Units: mg/L	Date Analyzed: 11/02/10 13:09	SUR	KUGATE KI			
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
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 / B	SD Batch:	1 Matrix	Water		
Units: mg/L	Date Analyzed: 11/02/10 13:41	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
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 / B	LK Batch:	1 Matrix	:Water		
Units: mg/L	Date Analyzed: 11/02/10 14:11	SUR	ROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
	Analytes			[D]		
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.



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Form 2 - Surrogate Recoveries

Project Name: House

Work Orders : 395493	3		Project II	D: 1005-3826	5	
Lab Batch #: 830248	Sample: 395493-001 / SMP	Bate	h: i Matrix	Water		
Units: mg/L	Date Analyzed: 11/02/10 19:12	SU	RROGATE RI	ECOVERY	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	Bate	h: ¹ Matrix	Water		
Units: mg/L	Date Analyzed: 11/02/10 20:13	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		ļ	[0]		
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	Batc	h: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 11/02/10 20:45	SU	RROGATE RI	ECOVERY	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 / BAll results are based on MDL and validated for QC purposes.



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Project Name: House

Work Order #: 395493		· Pi	roject ID:		10	05-3826
Lab Batch #: 830858	Sample: 577876	-1-BKS	Matrix	: Water		
Date Analyzed: 11/05/2010	Date Prepared: 11/04/2	010	Analyst	: HAT		
Reporting Units: mg/L	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY
ICP-MS Metals by SW 6020A	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	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.

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BS / BSD Recoveries



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Project Name: House

Work Order #: 395493 Lab Batch ID: 830631 Analyst: ASA

Date Prepared: 11/04/2010 Batch #: 1

Sample: 577933-1-BKS

Project ID: 1005-3826 **Date Analyzed:** 11/04/2010 Matrix: Water

Units: mg/L			BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPI	ICATE	KECOVE	LKY STUD	X	
BTEX by EPA	8021B Sam	Blank 1ple Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Bik. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		[Y]	[B]	Result [C]	%R [D]	[8]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Benzene		Ð	0.1000	0.1102	110	0.1	0.1117	112	1	70-125	25	
Toluene		Q	0.1000	0.0968	67	0.1	0.0979	98	1	70-125	25	
Ethylbenzene		Ð	0.1000	0.0953	95	0.1	0.0970	67	2	71-129	25	
m,p-Xylenes		Q	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		Da	te Prepare	d: 11/02/2010	0			Date A	nalyzed: 1	1/02/2010		
Lab Batch ID: 830229	Sample: 830229-1-BKS		Batch	#: 1					Matrix: \	Vater		

Units: mg/L		BLANI	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	<u>כ</u>	Ē	[E]	Result [F]	[0]				
Fluoride	QN	2.00	2.03	102	2	2.03	102	0	90-110	20	
Chloride	QN	10.0	10.1	101	10	10.1	101	0	90-110	20	
Sulfate	QN	10.0	9.83	86	10	9.78	86	1	90-110	20	
Bromide	QN	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

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BS / BSD Recoveries



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Project Name: House

Sample: 830426-1-BKS Work Order #: 395493 Lab Batch ID: 830426 Analyst: WRU

Date Prepared: 11/02/2010 Batch #: 1

Project ID: 1005-3826 Date Analyzed: 11/02/2010 Matrix: Water

Units: mg/L			BLANK	K/BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
TDS by SM2540C		Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	<u>[</u>]	<u>a</u>	[E]	Result [F]	<u>5</u>				
Total dissolved solids		DN	1000	902	60	1000	956	96	6	80-120	30	
Analyst: BEV		Da	te Prepare	d: 11/02/201	0			Date An	alyzed: 1	1/02/2010		-
Lab Batch ID: 830248 Sam	ple: 577712-1-BJ	KS	Batch	#: 1					Matrix: V	Vater		
IT_342. mg/I	L		RI.ANK	(/BLANK S	PIKE / B	LANK S	PIKE DUPI	ICATE F	RECOVE	RV STUD	۲ ۲	

Units: mg/L		BLAN	V /BLANK >	PINE / B	LANA 3	LINE DUFL	ICAIE F	KELUVE	UNIC XX	×	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[]	[0]	[E]	Result [F]	[C]				
C6-C12 Gasoline Range Hydrocarbons	QN	100	84.5	\$8	100	79.4	19	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

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Form 3 - MS Recoveries

Project Name: House



Work Order #: 395493

Lab Batch #: 830248

Date Analyzed: 11/02/2010

QC- Sample ID: 395485-004 S rting Units: σ/I

Project ID: 1005-3826 Analyst: BEV

Batch #: 1

Date Prepared: 11/02/2010

Matrix: Water

Reporting Units: mg/L	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
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*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

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Project Name: House

QC- Sample ID: 395498-004 S Date Prepared: 11/04/2010

Date Analyzed: 11/04/2010

Reporting Units: mg/L

 Work Order #:
 395493

 Lab Batch ID:
 830631

1 Matrix: Water

Project ID: 1005-3826

 ID:
 395498-004 S
 Batch #:

 ed:
 11/04/2010
 Analyst:

Analyst: ASA

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	RECOVERY STUDY	
	ATE	-
	IKE DUPLICA	
	TRIX SP	
	/ MA	
	MATRIX SPIKE	
e.		

BTEX by EPA 8021B	Parent Sample	Snike	Spiked Sample Result	Spiked	Snike	Duplicate Sniked Sample	Spiked Dun.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]		%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	p
Benzene	QN	0.1000	0.1042	104	0.1000	0.1172	117	12	70-125	25	
Toluene	Q	0.1000	0.0912	16	0.1000	0.1027	103	12	70-125	25	
Ethylbenzene	QN	0.1000	0.0899	96	0.1000	0.1017	102	12	71-129	25	
m,p-Xylenes	QN	0.2000	0.1717	86	0.2000	0.1915	96	Ξ	70-131	25	
o-Xylene	QN	0.1000	0.0881	88	0.1000	0.0995	100	12	71-133	25	
Lab Batch ID: 830858 Q	C- Sample ID:	395493-	001 S	Ba	tch #:	1 Matrix	: Water				

Date Analyzed: 11/05/2010	Date Prepared:	11/04/2(010	Ana	ulyst: H	HAT					
Reporting Units: mg/L		W	ATRIX SPIKI	(TAM / 3	AIX SPIF	KE DUPLICA	FE REC	VERY S	STUDY		
ICP-MS Metals by SW 6020A	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesult [A]	Added [B]		8% [0]	Added [E]	Result [F]	G	%	%R	%RPD	
Calcium	143	3.00	146	100	3.00	146	100	0	75-125	25	
Magnesium	37.2	3.00	40.4	107	3.00	40.7	117	1	75-125	25	
Potassium	8.98	2.00	11.2	111	2.00	11.2	111	0	75-125	25	-
Sodium	163	3.00	167	133	3.00	171	267	2	75-125	25	×

Matrix Spike Percent Recovery [D] ≈ 100*(C.A)/B Relative Percent Difference RPD = 200*(C.F)/(C+F) ND ~ Not Deferred 1 = Present Balow Dransting (fisite B = Desent in Diach ND :

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

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

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Sample Duplicate Recovery



Project Name: House

Work Order #: 395493

Lab Batch #: 830229 Date Analyzed: 11/02/2010 Date Prepa QC- Sample ID: 395488-001 D Bate	ared: 11/02/2010 th #: 1	Ana Mat	Project I lyst:LATC trix: Water	D: 1005-382	26
	SAMFLE /	SAMIT LE			UVENI
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Fluoride	1.38	1.39	1	20	
Chloride	261	261	0	20	
Sulfate	171	172	1	20	
Bromide	1.90	1.91	1	20	
Date Analyzed:11/05/2010Date PrepaQC- Sample ID:395493-001 DBateReporting Units:mg/l	red: 11/04/2010	Ana Mat	lyst:HAT trix: Water	ATE DEC	OVERV
Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC.	ATE REC	OVERY
ICP-MS Metals by SW 6020A Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	143	143	0	2.0	
					1
Magnesium	37.2	37.2	0	20	
Magnesium Potassium	37.2 8.98	37.2 8.98	0	20 20 20	
Magnesium Potassium Sodium	37.2 8.98 163	37.2 8.98 162	0 0 1	20 20 20 20	
Magnesium Potassium Sodium Lab Batch #: 830426 Date Analyzed: 11/02/2010 Date Prepa	37.2 8.98 163 red: 11/02/2010	37.2 8.98 162 Ana	0 0 1 lyst: WRU	20 20 20 20	
Magnesium Potassium Sodium Lab Batch #: 830426 Date Analyzed: 11/02/2010 Date Prepa QC- Sample ID: 395488-001 D Bate	37.2 8.98 163 red: 11/02/2010 :h #: 1	37.2 8.98 162 Ana Mat	0 0 1 lyst: WRU trix: Water	20 20 20	
Magnesium Potassium Sodium Lab Batch #: 830426 Date Analyzed: 11/02/2010 Date Prepa QC- Sample ID: 395488-001 D Bato Reporting Units: mg/L	37.2 8.98 163 red: 11/02/2010 h #: 1 SAMPLE /	37.2 8.98 162 Ana Mat SAMPLE	0 0 1 lyst: WRU trix: Water DUPLIC	20 20 20 ATE REC	OVERY
Magnesium Potassium Sodium Lab Batch #: 830426 Date Analyzed: 11/02/2010 Date Prepa QC- Sample ID: 395488-001 D Batc Reporting Units: mg/L TDS by SM2540C Analyte	37.2 8.98 163 red: 11/02/2010 th #: 1 SAMPLE / Parent Sample Result [A]	37.2 8.98 162 Ana Mat / SAMPLE Sample Duplicate Result [B]	0 0 1 lyst: WRU trix: Water DUPLIC RPD	20 20 20 ATE REC Control Limits %RPD	OVERY Flag

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD X1 12600 West I-20 East, Odessa, Tx 79765 432-563-1800 B 842 Canwell, Corpus Christi, Tx 78408 361-884-0371 Serial #: 250551 Page	7535 Lab Only: 395 493	12.6 It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	مراجع المراجع ا مراجع المراجع ال مراجع المراجع ال	737 VOAs Other Bheb. F	ACHS ACHS ACHS ACHS ACHS ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC ACHC	о о о о о о о о о о о о о о о о о о о		5-95 	81M 90qqA 48M 20dqA 48M 200 00 00 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10		Partainer Size portainer Size reservatives AHs COC's PP TCI AHs COC's PP TCI PLP - TCLP PLP - TCLP					shed to (Initials and Sign) Date & Time Total Containers per COC: 6 Cooler Temp: 2, 6	Turdized's 11/01/10 11:52 otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if	De Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)	oc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)	be Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)
1 4143 Greenbriar Drive, Stafford, Tx 77477 281-240-4200 5332 Blackberry Drive, San Antonio, Tx 78238 210-509-333 5332 Blackberry Drive, San Antonio, Tx 78228 210-509-333 5332 Blackberry Drive, San Antonio, Tx 78220 214-902-0300	1001CAL FUMERONNALEL 42852	156 1005 - 3	e: TX, AL, FL, GA, LA, MS, NC, Proj. Manager (PM) SC, TN , UT Other)	sults to YPM and Fax No: 34 0. ECO (CON(CU), COM 932.52	● 図 Accounting □ Inc. Invoice with Final Report □ Invoice mus	icing: P.O.No: D.Call for I	gram: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRR	er-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:	0Ls (GW DW QAPP MDLs RLs See Lab PM included Call PM)	Vame Anna Uaristics Signature, i inverder	Sampling Date D atte S athx athx athx athx Containers	1-1 1029/10 1:15 PE = 0 0 #				Duished by (Initials and Sign) Date & Time Relinque	Larger BV 11/10 11:50 marine	6) tives: Various (V), HCi pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), A		[6] tives: Various (V), HCI pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), A e: 4oz (4), 8oz (8), 32oz(32), 40ml VOA (40), 1L (1), 500ml (5), Tedla

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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-In

client: Eco-Logical Enviror	mental
Date/Time: 10 1/01/10 11:58	
Lab ID # :	
Initials: ZM	

Sample Receipt Checklist

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

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:	• • • • • • • • • • • • • • • • • • •	
Corrective Action Tak	en:	4
Check all that apply:	Cooling process has begun shortly after condition acceptable by NELAC 5	r sampling event and out of temperature .5.8.3.1.a.1.

Client understands and would like to proceed with analysis

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Analytical Report 406346

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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



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)

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Xenco Phoenix (EPA Lab Code: AZ00901): 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,

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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

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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

	Cer	tificate of A rn Union Gas Se	nalysis Summa srvices- Monahans,	ıry 406346 Monahans, TX	LES IN CCORDINA
Project Id: 1005-4156		Proj	ect Name: House		
Contact: Rose Slade				Date Received in Lab: Thu Fe	cb-10-11 11:35 am
Project Location:				Report Date: 16-FE Project Manager: Brent 1	B-11 Barron, II
	Lab Id:	406346-001	406346-002		
Audicie Desuced	Field Id:	I-WW	MW-2		
Analysis Nequesieu	Depth:				
	Matrix:	WATER	WATER		
	Sampled:	Feb-08-11 00:00	Feb-08-11 00:00		
Anions by E300	Extracted:				
SUB: T104704295-TX	Analyzed:	Feb-11-11 11:11	Feb-11-11 11:11		
	Units/RL:	mg/L RL	mg/L RL		
Fluoride		ND 2.00	ND 2.00		
Chloride		186 5.00	194 5.00		
Sulfate		162 5.00	177 5.00		
Bromide		ND 5.00	ND 5.00		
BTEX by EPA 8021B	Extracted:	Feb-10-11 15:50	Feb-10-11 15:50		
	Analyzed:	Feb-11-11 17:44	Feb-11-11 18:07		
	Units/RL:	mg/L RL	mg/L RL		
Benzene		ND 0.00100	ND 0.00100		
Toluene		ND 0.00200	ND 0.00200		
Ethylbenzene		ND 0.00100	00100 ON		
m_p-Xylenes		ND 0.00200	ND 0.00200		
o-Xylene		ND 0.00100	ND 0.00100		
Total Xylenes		ND 0.00100	00100.0 UN		
Total BTEX		ND 0.00100	ND 0.00100		
Metals per ICP by SW846 6010B	Extracted:	Feb-14-11 08:00	Feb-14-11 08:00		
	Analyzed:	Feb-14-11 13:35	Feb-14-11 13:37		
	Units/RL:	mg/L RL	mg/L RL		
Calcium		141 0.100	138 0.100		
Magnesium		34.8 0.0100	30.2 0.0100		
Potassium		7.92 0.500	6.47 0.500		
Sodium		138 0.500	160 0.500		

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Southern Union Gas Services- Monahans, Monahans, TX **Certificate of Analysis Summary 406346**

Project Name: House



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Project Location:

Date Received in Lab: Thu Feb-10-11 11:35 am Report Date: 16-FEB-11 Project Manager: Brent Barron, II 1.50 1.50 5.00 1.50 1.50 RL R Feb-10-11 13:30 Feb-10-11 23:52 Feb-08-11 00:00 Feb-10-11 16:00 406346-002 WATER MW-2 Ð mg/L ND Ð E 914 mg/L RL 1.50 1.50 1.50 5.00 1.50 Feb-10-11 13:30 Feb-08-11 00:00 Feb-10-11 16:00 Feb-10-11 23:34 406346-001 WATER MW-1 Ð Ð mg/L 924 Ð g mg/L Lab Id: Field Id: Depth: Sampled: Analyzed: Units/RL: Extracted: Matrix: Extracted: Analyzed: Units/RL: TPH By SW8015 Mod C6-C12 Gasoline Range Hydrocarbons TDS by SM2540C C12-C28 Diesel Range Hydrocarbons Analysis Requested C28-C35 Oil Range Hydrocarbons Total dissolved solids 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 bost juggment of XPNCO Laboratories. XENCO Laboratories assumes on responsibility and makes no warranty to the end use of the data heetby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Odessa Laboratory Manager Brefit Barron, II

Page 6 of 18

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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 : 406346	, , , , , , , , , , , , , , , , , , ,	70 D (1)	Project II	D: 1005-4156	5	
Lab Baten #: 045495	Sample: 393330-1-BKS / B	SU SU	RROGATE RI	ECOVERY	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 / B	SD Batel	h: 1 Matrix	Water		
Units: mg/L	Date Analyzed: 02/11/11 09:24	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0303	0.0300	101	80-120	·····
4-Bromofluorobenzene		0.0299	0.0300	100	80-120	· · · · · · · · · · · · · · · · · · ·
Lah Batch #: 843493	Sample: 595536-1-BLK / B	LK Batel	h: 1 Matrix	Water	1	· · · ·
Units: mg/L	Date Analyzed: 02/11/11 14:39	SU	RROGATE RI	ECOVERY	STUDY	- mang
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R (D)	Control Limits %R	Flags
1.4 Difluorohonzona	Analytes	0.0782	0.0200	04	80.120	
4-Bromofluorobenzene		0.0283	0.0300	94	80-120	
Lab Batch #: 843493	Sample: 406346-001 / SME	Bata	h. 1 Matrix	Water		
Lab Batch #. 015155	Date Analyzed: 02/11/11 17:44	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X 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		0.0285	0.0300	95	80-120	
Lab Batch #: 843493	Sample: 406346-002 / SMF	Bate	h: l Matrix	Water		
Units: mg/L	Date Analyzed: 02/11/11 18:07	SU	RROGATE RI	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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.



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Form 2 - Surrogate Recoveries

Project Name: House

Vork Orders : 406346	5, Sample: 406348-001 S / M	S Batch	Project II	D: 1005-4156 •Water	ō	
Units: mg/L	Date Analyzed: 02/11/11 23:48	SUI	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[U]		
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 / N	ASD Batch	n: ¹ Matrix	:Water		
Units: mg/L	Date Analyzed: 02/12/11 00:11	SUI	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		0.0302	0.0300	101	80-120	
Lab Batch # 843225	Sampler 595376-1-BKS / B	KS Patak	. 1 Matrix	•Water		1
Lao Baten #: 045225	Date A polygod: 02/10/11 16:50	SUI	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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 / B	SD Batch	n: ¹ Matrix	Water	<u> </u>	
Units: mg/L	Date Analyzed: 02/10/11 17:09	SUI	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		9.20	10.0	92	70-135	
o-Terpheny]		4.08	5.00	82	70-135	
Lab Batch #: 843225	Sample: 595376-1-BLK / B	LK Batch	1: 1 Matrix	:Water		
Units: mg/L	Date Analyzed: 02/10/11 17:27	SUI	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		7 32	10.0	73	70-135	
1 omoroounio		7.00	10.0	1		

* 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 / BAll results are based on MDL and validated for QC purposes.

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Form 2 - Surrogate Recoveries

Project Name: House

Vork Orders : 406346	Sample: 406346-001 / SMP	Bata	Project II	D: 1005-4156 • Water	5	
Units: mg/L	Date Analyzed: 02/10/11 23:34	SU	RROGATE RI	ECOVERY	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	Bate	h: ¹ Matrix	:Water		
Units: mg/L	Date Analyzed: 02/10/11 23:52	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod	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	Batc	h: ¹ Matrix	:Water		
Units: mg/L	Date Analyzed: 02/11/11 00:30	SU	RROGATE RI	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
l-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.

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BS / BSD Recoveries



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Project Name: House

Work Order #: 406346 Lab Batch ID: 843493 Analyst: ASA

Date Prepared: 02/10/2011

Batch #: 1

Sample: 595536-1-BKS

Project ID: 1005-4156 Date Analyzed: 02/11/2011 Matrix: Water

Units: mg/L			BLANK	(/BLANK S	PIKE / B	LANK S	PIKE DUPL	LCATE F	RECOVE	KY STUD	X	
BTEX by EPA	8021B	Blank ample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			B	[c]	<u>a</u>	E	Result [F]	Ū		·		-
Benzene		<0.00100	0.100	0.0998	100	0.100	0.0972	- 26	3	70-125	25 .	
Toluene		<0.00200	0.100	0.0969	67	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	67	0.100	0.0941	94	3	71-133	25	
Analyst: LATCOR		Da	te Prepare	d: 02/11/201	1			Date Ar	alyzed: 0	2/11/2011		
Lab Batch ID: 843234	Sample: 843234-1-BKS	S	Batch	#: 1				_	Matrix: V	Vater		

Units: mg/L		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE	RECOVE	RY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Fluoride	<0.200	2.00	2.11	106	2.00	1.95	98	8	80-120	20	
Chloride	<0.500	0.01	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

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BS / BSD Recoveries



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Project Name: House

Work Order #: 406346 Analyst: DAT Lab Batch ID: 843781

Date Prepared: 02/14/2011 Batch #: 1

Sample: 595496-1-BKS

Project ID: 1005-4156 Date Analyzed: 02/14/2011 Matrix: Water

Units: mg/L		BLAN	K /BLANK S	SPIKE / B	LANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Límits %RPD	Flag
Analytes	[[B]	[C]	[]	[E]	Result [F]	5	2			<u></u>
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	86	4	75-125	25	
Sodium	<0.500	11.0	11.4	104	11.0	11.7	106	3	75-125	25	
Analyst: WRU	Da	tte Prepar	ed: 02/10/201	1			Date AI	nalyzed: 0	02/10/2011		
Lab Batch ID: 843267 Sample: 843267-1-E	BKS	Batch	1 #: 1					Matrix: V	Vater		
Units: mg/L		BLAN	K /BLANK	SPIKE / B	LANK S	PIKE DUPI	ICATE 1	RECOVE	CRY STUD	Y	

Units: mg/L		BLAN	VIDLANN S			LINE DUFL	ICALE I	and and a second		Y	
TDS by SM2540C	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[a]	[E]	Result [F]	[6]				
Total dissolved solids	<5.00	1000	910	16 .	1000	946	95	4	80-120	30	

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 Final 1.000

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Project Name: House

Sample: 595376-1-BKS Work Order #: 406346 Lab Batch ID: 843225 Analyst: BEV

Date Prepared: 02/10/2011

Batch #: 1

Project ID: 1005-4156 Date Analyzed: 02/10/2011 Matrix: Water

Units: mg/L		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE F	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Límits %RPD	Flag
Analytes		[B]	[c]	[Q]	[E]	Result [F]	[G]				
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	

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

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Form 3 - MS Recoveries

Project Name: House



	Project Na	ame: H	louse					₹ MILEIC
4800	Work Order #: 406346							
	Lab Batch #: 843234				Pr	oject ID:	1005-4156	
	Date Analyzed: 02/11/2011	Date P	Prepared: 02/1	1/2011	A	Analyst: L	ATCOR	
1	QC- Sample ID: 406240-001 S		Batch #: 1		1	Matrix: W	ater	
5 8	Reporting Units: mg/L		MATE	RIX / MA'	FRIX SPIKE	RECOV	VERY STU	DY
activity.	Inorganic Anions by EPA 300		Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
200	Analytes			[D]				
	Fluoride		<2.00	20.0	21.4	107	80-120	
	Chloride		166	100	268	102	80-120	<u> </u>
橋	Sulfate		76.5	100	162	86	80-120	
	Bromide	_	<5.00	15.0	16.6	111	80-120	
	Lab Batch #: 843225							
200	Date Analyzed: 02/11/2011	Date P	Prepared: 02/10	0/2011	A	Analyst: B	EV	
	QC- Sample ID: 406303-002 S		Batch #: 1]	Matrix: W	ater	
807/m	Reporting Units: mg/L		MATE	UX / MA	TRIX SPIKE	RECOV	VERY STU	DY
	TPH by SW8015 Mod		Parent Sample Result [A]	Spike Added (B)	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
	Analytes							ļ
	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 $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

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Project Name: House



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Project ID: 1005-4156

QC- Sample ID: 406348-001 S Date Prepared: 02/10/2011

Date Analyzed: 02/11/2011

Reporting Units: mg/L

Work Order #: 406346 Lab Batch ID: 843493

Matrix: Water ASA -Batch #: Analyst:

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STUDY	Control
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E / MAT	Chilcod
IATRIX SPIK	Sniled Somula
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RTFY hv FDA 2021B	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
	Sample	Spike	Result	Sample	Spike	Spiked Sample	Dup.	RPD	Limits	Limits	Flag
Analytes	Result [A]	Added [B]	C	8% [0]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	<0.00100	0.100	0.0968	97	0.100	0.0946	95	2	70-125	25	
Toluene	<0.00200	0.100	0.0935	94	0.100	0.0912	91	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0917	92	0.100	0.0887	89	3	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.184	92	0.200	0.177	89	4	70-131	25	
o-Xylene	<0.00100	0.100	0.0931	93	0.100	0.0906	91	3	71-133	25	
Lab Batch ID: 843781 Q	C- Sample ID:	406476	-001 S	Bat	ch #:	l Matriy	c: Water				

Date Prepared: 02/14/2011

Analyst: DAT

Reporting Units: mg/L		N	ATRIX SPIKI	E/MAT	RIX SPII	KE DUPLICA	TE RECO	VERY 5	TUDY		
Metals per ICP by SW846 6010B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesult [A]	Added [B]	<u>5</u>	8% [U]	Added [E]	Result [F]	%R [G]	% ·	%К	%RPD	
Calcium	7.73	1.00	8.58	85	1.00	8.57	84	0	75-125	25	
Magnesium	1.24	1.00	2.24	100	1.00	2.21	67	1	75-125	25	
Potassium	10.8	10.0	21.9	111	10.0	20.1	93	9	75-125	25	
Sodium	356	0.11	374	164	11.0	365	82	2	75-125	· 25	×

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

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

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

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Sample Duplicate Recovery



Project Name: House

Work Order #: 406346

Lab Batch #: 843234			Project I	D: 1005-415	56
Date Analyzed: 02/11/2011 11:11	Date Prepared: 02/11/2011	Ana	lyst:LATC	COR	
QC- Sample ID: 406240-001 D	Batch #: 1	Ma	trix: Water		
Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
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 OC- Sample ID: 406346-001 D	Date Prepared: 02/10/2011 Batch #: 1	Ana Ma	llyst: WRU trix: Water		

QC- Sample ID: 406346-001 D

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		• •			
otal 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

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s: Various (V), HCI 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) D2 (4), 802 (8), 3202 (32), 40mi VOA (40), 1L (1), 500mi (5), Tediar Bag (B), Various (V), Other Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)					6) <i>(Ú</i>	nor	a 21	Cum	.2	0.11	11:35	hereby r needed.	equested. R	ush Charges	and Collt	action Fee	es are pre	-approve		
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