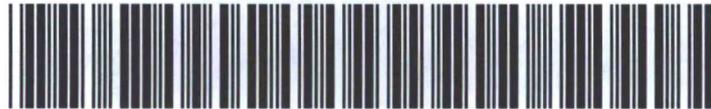




AE Order Number Banner

Report Description

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



App Number: pGRL0928153726

1RP - 2294

ENDEAVOR ENERGY RESOURCES, LP



SOUTH ENVIRONMENTAL SERVICES, INC.

P.O BOX 11064
MIDLAND, TEXAS 79702
OFFICE: (432) 682-3547
FAX: (432) 682-4182

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MAR 14 2011
HOBSUCD

SITE REMEDIATION AND CLOSURE REPORT

**ENEAVOR ENERGY RESOURCES, LP
PETERSON "C" WELL # 1
ROOSEVELT COUNTY, NEW MEXICO**

Prepared For:
ENDEAVOR ENERGY RESOURCES, LP
110 N. MARIENFIELD, SUITE 200
MIDLAND, TEXAS 79701

Prepared by:
SOUTH ENVIRONMENTAL SERVICES, INC.
2400 S. LOOP 250 WEST
MIDLAND, TEXAS 79702

MARCH 2011

An Environmental Company
SOLIDIFICATION, BIOREMEDIATION, LAND FARMING, SOIL SHREDDING

A Report Prepared For:

ENDEAVOR ENERGY RESOURCES, LP
110 N. MARIENFIELD STREET, SUITE 200
MIDLAND, TEXAS 79701

SITE REMEDIATION AND
CLOSURE REPORT

Prepared by:

Ronnie W. Nickell



A handwritten signature in black ink, appearing to read 'Ronnie W. Nickell', is written over a solid horizontal line. The signature is stylized and cursive.

SOUTH ENVIRONMENTAL SERVICES, INC
2400 S. LOOP 250 WEST
MIDLAND, TEXAS 79702

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ATTACHMENTS

ATTACHMENT 1: LABORATORY ANALYSIS TABLES

TABLE 1: Concentrations of TPH and Chlorides in Soil

ATTACHMENT 2: SITE FIGURES

FIGURE 1: Site Aerial Photograph
FIGURE 2: Street Atlas Map
FIGURE 3: Sample Point Map

ATTACHMENT 3: SITE PHOTOGRAPHS

ATTACHEMENT 4: LABORATORY ANALYSIS REPORT

1.0 INTRODUCTION

On behalf of Endeavor Energy Resources, LP. (Endeavor), South Environmental Services, Inc. (SES) is please to submit this Site Remediation and Closure Report for the site known as Peterson "C" Well #1. This report presents the results of initial response, site investigation, and remedial actions performed at the above referenced site.

1.1 Purpose of the Report

The purpose of this report is to present the results of the site investigation and document response and remedial actions completed to date in order to facilitate closure for this site.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 Site Remediation and Closure Activities

The following activities were completed to achieve compliance with Oil Conservation Division (OCD) Statewide Rule for Total Petroleum Hydrocarbons (TPH) (<1,000 mg/kg), Chlorides (<500 ppm), and Benzene (<10.0 mg/kg), as set out below:

- Mobilized SES personnel and equipment to the site,
- Excavate approximately 1,462 cubic yards of impacted soil down to clean bottom, and take bottom hole samples,
- Removal of contaminated rock and soil will be properly disposed of in a licensed disposal,
- Perform excavation bottom hole confirmation sampling event to verify remedial levels, TPH <1,000 mg/kg (ppm), Chlorides <500 mg/kg (ppm) , and Benzene < 10 mg/kg (ppm),
- Backfill excavation areas with clean remediated soil, based on analytical verification meeting OCD requirements,
- Preparation of a Site Remediation and Closure Report for Submittal to the OCD, as required to resolve the enforcement action regulatory requirements as set out below.

3.0 DISTRIBUTION OF HYDROCARBONS IN SOIL

The distribution of hydrocarbons in the unsaturated zone was determined by utilizing the following techniques:

1. Visual observations of soils during trenching and/or excavation during remediation;
2. Visual observations of soils during the following excavation;
3. Visual observations of soil samples; and,
4. Laboratory analyses of the above samples.

Following excavation of impacted soil, confirmation soil samples were collected from the base of the excavation, based on minimum of one (1) discrete sample for each 500 square feet of surface area. Following conformation sampling event(s), any area still exhibiting TPH concentrations > 1,000 mg/kg, Chloride Concentrations >500 mg/kg, or Benzene concentrations > 50.0 mg/kg were over-excavated and re-sampled to confirm attainment of remedial goals. All samples were submitted for laboratory analysis for TPH, BTEX, and chlorides as referenced above. Site photographs are included as Attachment 3.

3.1 Remediation Results

Following intensive remediation of the site, via land farming, site inspections and multiple sampling events were conducted from 26 August 10 until clean bottom hole samples were taken on 14 January 10. Samples were collected at multiple locations within the impacted area as depicted in Attachment 2.

All remediation confirmation samples collected from each area were analyzed for TPH (SW 8051B Method), BTEX (SW 8021B Method), and Chlorides (EPA 300 Method).

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Samples of subsurface and treated soil will be obtained utilizing proper EPA protocols and/or standards. Representative soil samples will be collected using clean, disposable gloves and clean sampling tools. The soil samples will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container will be filled to capacity to limit the amount of head-space present. Then each container will be labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling and transportation process.

Soil samples will be delivered to Xenco Laboratories in Midland, Texas for TPH, BTEX, and Chloride analysis using the methods described below. Soil samples will be analyzed for Chlorides, BTEX, and TPH within fourteen days following the collection date.

The soil samples were analyzed as follows:

1. BTEX concentrations' in accordance with Method SW-846 8021B.
2. Chloride concentrations in accordance with Method 4500-CI-B.
3. TPH concentrations in accordance with EPA SW-846 8015M.

4.2 Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures. These Procedures will either be transmitted with the laboratory reports or on file at the laboratory.

5.0 LIMITATIONS

South Environmental Services, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. South Environmental Services, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. WE have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. South Environmental Services, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. South Environmental Services, Inc. also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Endeavor Energy Services, LP. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of South Environmental Services, Inc. and/or Endeavor Energy Services, LP.

Thank you for your assistance in this matter. If you have any questions or require additional information, please feel free to contact me at 432-425-8454.

Sincerely,
SOUTH ENVIRONMENTAL SERVICES, INC.

Ronnie W. Nickell
Sr. Project Manager



Cc: Endeavor Energy Services, LP, Midland, Texas

Table 1

CONCENTRATIONS OF TPH, BTEX AND CHLORIDE IN SOIL

Site Activities Report
 Endeavor Energy, Peterson Penn Storage System

Roosevelt County, New Mexico

All concentrations are in mg/kg

Well	SAMPLE ID	Depth	EPA 8021B					SW8015 Mod					E300
			BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENE	BTEX	TPH C ₆ -C ₁₂	TPH C ₁₂ -C ₂₈	TPH C ₂₈ -C ₃₅	TPH C ₆ -C ₃₅	% Moisture	
08/26/10	FL1-001	0"-12"	0.0014	0.0042	0.0154	0.1865	0.2075	743	5690	131	6564	16.50	8.42
	FL2-001	0"-12"	0.0029	0.1451	0.0677	0.6263	0.8420	2620	29900	1460.0	33980	4.22	53.7
	FL3-001	0"-12"	ND	ND	ND	ND	ND	ND	171	ND	171	9.55	ND
	FL4-001	0"-12"	0.0013	0.0049	0.0128	0.1437	0.1627	664	10500	650.0	11814	2.01	26.5
	FL5-001	0"-12"	0.0016	0.0026	0.0043	0.0246	0.0331	402	16000	1070.0	17472	1.94	583
	FL6-001	0"-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.64	ND
08/28/10	FL7-001	0"-12"	ND	ND	ND	ND	ND	16.5	199	ND	215.5	7.65	ND
	FL8-001	0"-12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.81	13.6
	FL9-001	0"-12"	ND	ND	ND	ND	ND	56.8	1360	45.4	1462.2	6.23	ND
09/21/10	PWSW1-001	0"-48"	ND	ND	ND	1.3423	1.3423	454	2270	90.7	2814.7	11.60	539
	PWNW2-001	0"-48"	0.0120	0.0503	0.0350	0.3347	0.4320	1120	5210	345.0	6675	8.60	3870
	PWNE3-001	0"-48"	0.7914	1.5590	3.6470	1.7720	7.7694	2530	3730	285.0	6545	11.70	1480
	PWSE4-001	0"-48"	0.0017	0.0059	0.0104	0.0182	0.0362	60.9	301	18.1	380	12.20	111
	PWFN1-001	0"-48"	0.0011	0.0026	0.0036	0.0021	0.0094	16.4	428	36.9	481.3	2.22	7.05
	PWFC2-001	0"-48"	ND	ND	ND	ND	ND	41.6	381	ND	422.6	11.50	6.51
	PWFS3-001	0"-48"	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.88	25.8

Well	SAMPLE ID	Depth	EPA 8021B				SW8015 Mod				E300				
			BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	BTEX	TPH C ₆ -C ₁₂	TPH C ₁₂ -C ₂₈	TPH C ₂₈ -C ₃₅		TPH C ₆ -C ₃₅	% Moisture	Chloride	
09/30/10	PW SE1-002	0-60"								2110	3520	128	5758	8.42	91.6
	PW SE1-003	0-60"								2020	4980	188.0	7188	9.57	376
	PW SE1-004	0-60"								1640	3160	113.0	4913	8.21	149
	PW SE1-005	0-60"								17.1	123	ND	140.1	12.10	50.3
10/19/10	PW SE1-003	0-48"								ND	ND	ND	ND	7.11	
	PW NE2-003	0-48"								ND	332	ND	332	1.70	
	PW NW3-003	0-48"								ND	ND	ND	ND	7.86	
01/12/11	PW N1-001	0-10'	ND	0.2696	0.5678	4.4120	5.2494			372	500	ND	872	10.30	56.8

Table 2

WATER ELEVATION FOR SURROUNDING WELLS

**Site Activities Report
Endeavor Energy, Peterson C Well 1**

Roosevelt County, New Mexico

All measurements are in feet.

WELL NAME	DATE MEASURED	DEPTH TO WATER	TOTAL DEPTH	DISTANCE FROM SITE	WELL TYPE
CL00147	12/26/2010	65	80	49902	Domestic
CL00254	9/27/2009	29	50	50315	Monitoring
CL00004	1/9/2009	28	238	50728	Municipal
CL00224	7/22/2008	95	147	64177	Livestock
Average Depth to Water		54.25			

*Source: New Mexico Office of the State Engineer



New Mexico Office of the State Engineer

Wells with Well Log Information

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

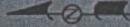
POD Number	Sub basin	Use	County	Source	6416	4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File	(in feet)	
																Well	Depth
CL 00147 POD1	DOM	RO	Shallow	4	4	2	23	04S	31E	624770	3756868	15210	12/26/2006	12/26/2006	01/16/2007	80	65
CL 00254 POD1	MON	RO	Shallow	1	2	1	24	04S	31E	625001	3757445	15336	09/22/2009	09/27/2009	12/21/2009	50	29
CL 00254 POD2	MON		Shallow							625001	3757445	15336	09/22/2009	09/27/2009	12/21/2009	34	
CL 00255 POD1	MON	RO	Shallow	1	2	1	24	04S	31E	625001	3757445	15336	09/23/2009	09/23/2009	12/21/2009	49	29
CL 00255 POD2	MON		Shallow							625001	3757445	15336	09/23/2009	09/23/2009	12/21/2009	34	29
CL 00256 POD1	MON	RO	Shallow	1	2	1	24	04S	31E	625001	3757445	15336	09/24/2009	09/24/2009	12/21/2009	52	29
CL 00256 POD2	MON		Shallow							625001	3757445	15336	09/24/2009	09/24/2009	12/21/2009	40	29
CL 00257 POD1	MON	RO	Shallow	1	2	1	24	04S	31E	625001	3757445	15336	09/25/2009	09/25/2009	12/21/2009	34	29
CL 00257 POD2	MON		Shallow							625001	3757445	15336	09/25/2009	09/25/2009	12/21/2009	51	29
CL 00258 POD1	MON	RO	Shallow	1	2	1	24	04S	31E	625001	3757445	15336	09/26/2009	09/26/2009	12/21/2009	50	29
CL 00258 POD2	MON		Shallow							625001	3757445	15336	09/26/2009	09/26/2009	12/21/2009	34	29
CL 00253 POD1	MON	RO	Shallow	3	1	1	24	04S	31E	624792	3757165	15352	10/05/2008	10/05/2008	08/21/2009	30	
CL 00004 POD3	MUN	RO	Shallow	2	2	2	23	04S	31E	624747	3757297	15462	01/09/2009	09/15/2009	09/29/2009	238	28
CL 00252 POD1	MON	RO	Shallow	3	1	3	13	04S	31E	624805	3758080	15863	10/05/2008	10/05/2008	08/21/2009	30	
CL 00121 POD1	DOM	RO	Shallow	4	4	2	22	06S	35E	663597	3739212*	18598	05/15/2007	05/16/2007	06/06/2007	155	
CL 00224 POD1	STK	RO	Shallow	4	4	2	30	05S	35E	657015	3746259	19561	07/20/2008	07/22/2008	08/22/2008	147	95

*UTM location was derived from PLSS - see Help

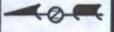
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/27/10 12:41 PM

DRAFT



Peterson "C" #1

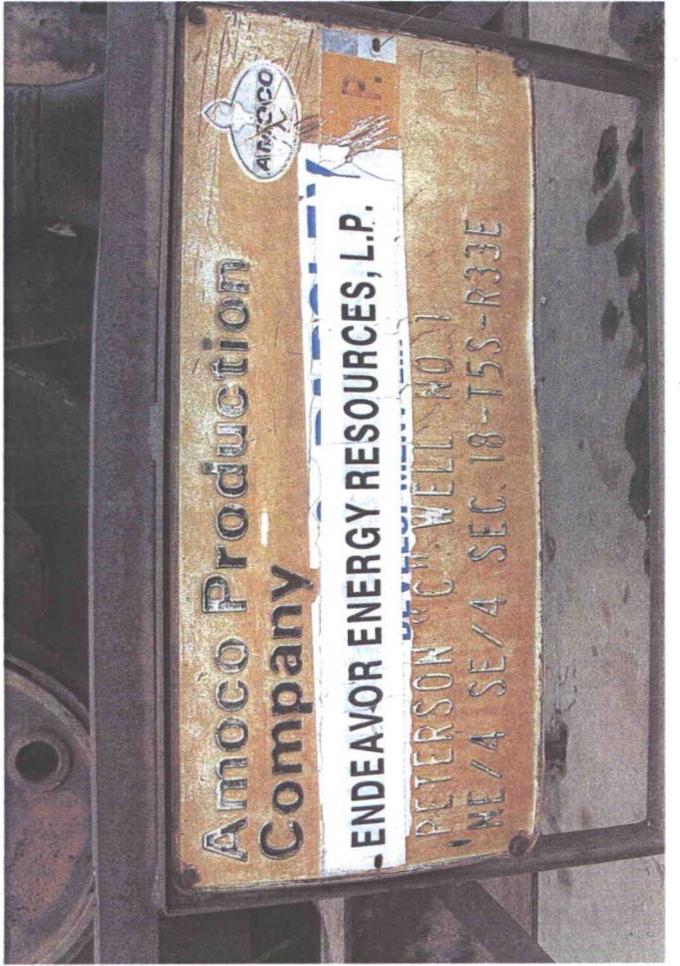
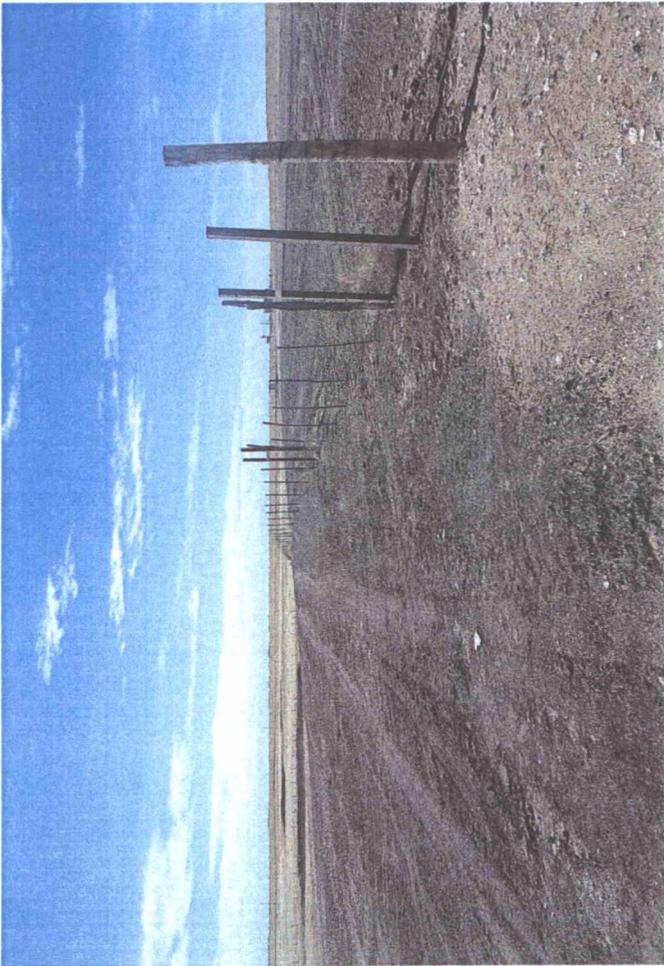
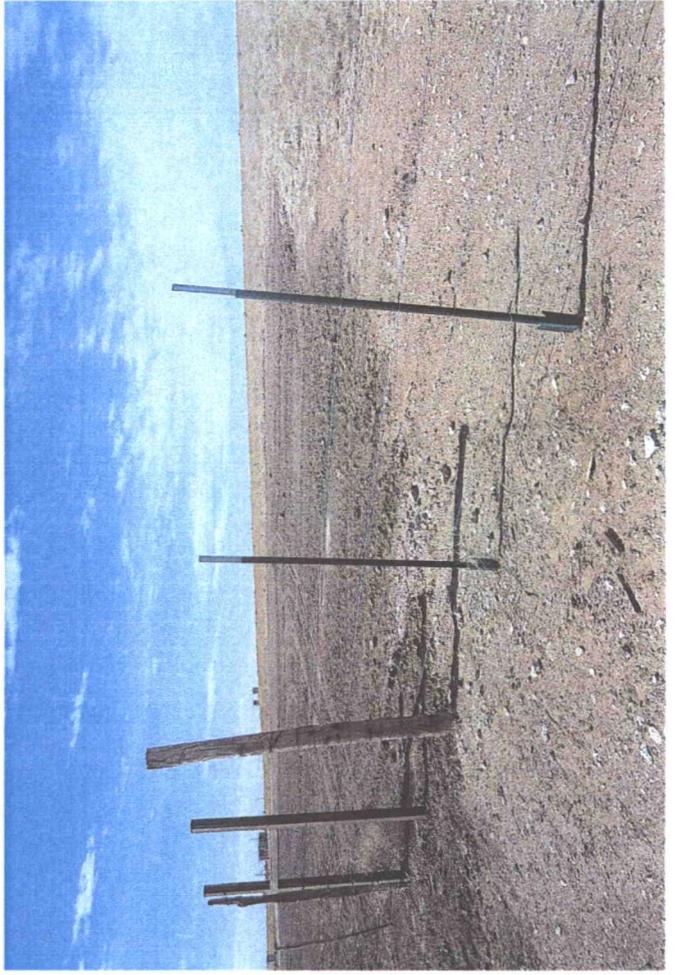
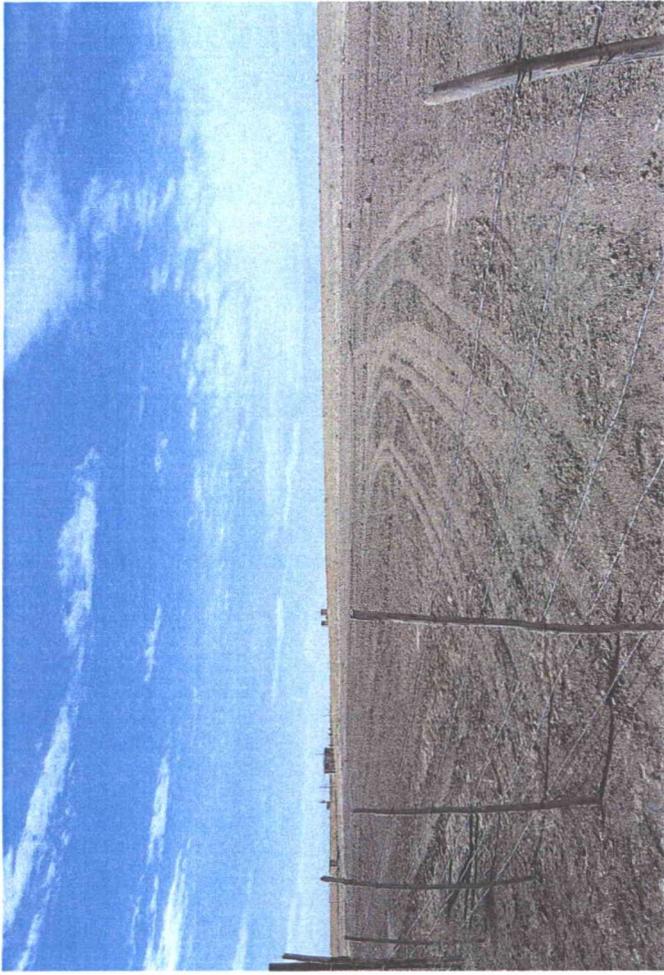


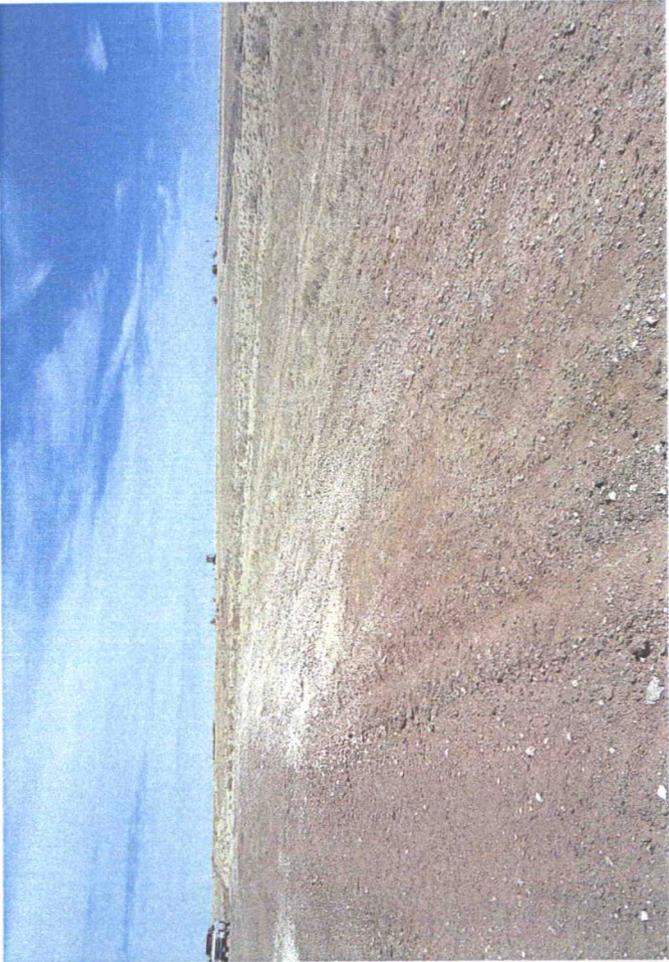
Peterson C Well #1	Endeavor Energy
Roosevelt County, New Mexico	
Drawn By: JDI	Rev: A-2
August 20, 2010	Scale: 1" = 200'

Figure 1
Aerial Map



South Environmental Services, Inc.





ATTACHMENTS: 4

LABORATORY ANALYSIS REPORT

Analytical Report 387388

for
Endeavor Energy

Project Manager: Ronnie Nickell

Peterson C Well #1

01-SEP-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 (AAL11), 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)

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)

01-SEP-10

Project Manager: **Ronnie Nickell**
Endeavor Energy
110 N. Marienfeld, Suite 200

Midland, TX 79701

Reference: XENCO Report No: **387388**
Peterson C Well #1
Project Address: Roosevelt County, NM

Ronnie Nickell:

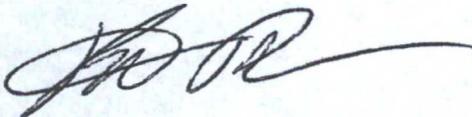
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 387388. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory 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. 387388 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

Sample Cross Reference 387388**Endeavor Energy, Midland, TX**

Peterson C Well #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL1-001	S	Aug-26-10 11:56	0 - 12 In	387388-001
FL2-001	S	Aug-26-10 12:05	0 - 12 In	387388-002
FL3-001	S	Aug-26-10 12:12	0 - 12 In	387388-003
FL4-001	S	Aug-26-10 12:25	0 - 12 In	387388-004
FL5-001	S	Aug-26-10 12:33	0 - 12 In	387388-005
FL6-001	S	Aug-26-10 12:36	0 - 12 In	387388-006



CASE NARRATIVE

Client Name: Endeavor Energy
Project Name: Peterson C Well #1



Project ID:
Work Order Number: 387388

Report Date: 01-SEP-10
Date Received: 08/27/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-820668 Soil pH by EPA 9045C

None

Batch: LBA-820734 Percent Moisture

None

Batch: LBA-820781 TPH By SW8015 Mod

None

Batch: LBA-820841 Inorganic Anions by EPA 300/300.1

None

Batch: LBA-821086 BTEX by EPA 8021B

SW8021BM

Batch 821086, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 387388-001, -005, -003, -002, -006, -004.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 821086, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene RPD was outside QC limits.

Samples affected are: 387388-001, -005, -003, -002, -006, -004

SW8021BM

Batch 821086, 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 387020-001 S, 387388-002, 387388-004, 387388-001.

Project Id:

Contact: Ronnie Nickell

Project Location: Roosevelt County, NM

Date Received in Lab: Fri Aug-27-10 08:18 am

Report Date: 01-SEP-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	387388-001	387388-002	387388-003	387388-004	387388-005	387388-006
		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
		FL2-001	0-12 In	SOIL	Aug-26-10 12:05	Aug-31-10 09:24	Aug-31-10 10:57	Aug-31-10 11:20	Aug-31-10 11:43	Aug-31-10 12:07	Aug-31-10 12:07
		FL3-001	0-12 In	SOIL	Aug-26-10 12:12	Aug-30-10 08:00					
		FL4-001	0-12 In	SOIL	Aug-26-10 12:25	Aug-30-10 08:00					
		FL5-001	0-12 In	SOIL	Aug-26-10 12:33	Aug-30-10 08:00					
		FL6-001	0-12 In	SOIL	Aug-26-10 12:36	Aug-30-10 08:00					
BTEX by EPA 8021B		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Benzene		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Toluene		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Ethylbenzene		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
m,p-Xylenes		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
o-Xylene		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Total Xylenes		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Total BTEX		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Inorganic Anions by EPA 300/300.1		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Chloride		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Percent Moisture		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
Soil pH by EPA 9045C		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					
pH		FL1-001	0-12 In	SOIL	Aug-26-10 11:56	Aug-30-10 08:00					

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

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Brent Barron, II
Odessa Laboratory Manager

Project Id: Contact: Ronnie Nickell
Project Location: Roosevelt County, NM
Date Received in Lab: Fri Aug-27-10 08:18 am
Report Date: 01-SEP-10
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	387388-001	387388-002	387388-003	387388-004	387388-005	387388-006
	Field Id:	FL1-001	FL2-001	FL3-001	FL4-001	FL5-001	FL6-001
	Depth:	0-12 In					
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-26-10 11:56	Aug-26-10 12:05	Aug-26-10 12:12	Aug-26-10 12:25	Aug-26-10 12:33	Aug-26-10 12:36
	Extracted:	Aug-27-10 11:00					
	Analyzed:	Aug-27-10 13:44	Aug-27-10 14:03	Aug-27-10 14:23	Aug-27-10 14:43	Aug-27-10 15:02	Aug-27-10 15:22
	Units/RL:	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		743 17.9	2620 157	ND 16.5	664 76.5	402 153	ND 16.4
C12-C28 Diesel Range Hydrocarbons		5690 17.9	29900 157	171 16.5	10500 76.5	16000 153	ND 16.4
C28-C35 Oil Range Hydrocarbons		131 17.9	1460 157	ND 16.5	650 76.5	1070 153	ND 16.4
Total TPH		6564 17.9	33980 157	171 16.5	11814 76.5	17472 153	ND 16.4

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Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

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

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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

Form 2 - Surrogate Recoveries

Project Name: Peterson C Well #1

Work Orders : 387388,

Project ID:

Lab Batch #: 821086

Sample: 572124-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 01:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0359	0.0300	120	80-120	

Lab Batch #: 821086

Sample: 572124-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/31/10 02:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 821086

Sample: 387020-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 03:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	80-120	
4-Bromofluorobenzene	0.0372	0.0300	124	80-120	**

Lab Batch #: 821086

Sample: 387020-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 04:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0353	0.0300	118	80-120	

Lab Batch #: 821086

Sample: 387388-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 09:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0863	0.0300	288	80-120	**

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson C Well #1

Work Orders : 387388,

Project ID:

Lab Batch #: 821086

Sample: 387388-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 09:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.1278	0.0300	426	80-120	**

Lab Batch #: 821086

Sample: 387388-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 10:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 821086

Sample: 387388-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 11:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.1647	0.0300	549	80-120	**

Lab Batch #: 821086

Sample: 387388-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 11:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0258	0.0300	86	80-120	

Lab Batch #: 821086

Sample: 387388-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/31/10 12:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0350	0.0300	117	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson C Well #1

Work Orders : 387388,

Project ID:

Lab Batch #: 820781

Sample: 571907-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 12:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.0	99.8	95	70-135	
o-Terphenyl	55.5	49.9	111	70-135	

Lab Batch #: 820781

Sample: 571907-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 13:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.6	97	70-135	
o-Terphenyl	62.1	49.8	125	70-135	

Lab Batch #: 820781

Sample: 571907-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/27/10 13:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	100	99	70-135	
o-Terphenyl	54.2	50.1	108	70-135	

Lab Batch #: 820781

Sample: 387388-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 13:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	61.8	50.0	124	70-135	

Lab Batch #: 820781

Sample: 387388-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 14:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson C Well #1

Work Orders : 387388,

Project ID:

Lab Batch #: 820781

Sample: 387388-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 14:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	99.7	98	70-135	
o-Terphenyl	53.4	49.9	107	70-135	

Lab Batch #: 820781

Sample: 387388-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 14:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	99.9	88	70-135	
o-Terphenyl	41.2	50.0	82	70-135	

Lab Batch #: 820781

Sample: 387388-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 15:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	99.8	94	70-135	
o-Terphenyl	36.3	49.9	73	70-135	

Lab Batch #: 820781

Sample: 387388-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 15:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	100	99	70-135	
o-Terphenyl	53.7	50.0	107	70-135	

Lab Batch #: 820781

Sample: 387390-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 19:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.5	99.5	97	70-135	
o-Terphenyl	57.8	49.8	116	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson C Well #1

Work Orders : 387388,

Lab Batch #: 820781

Sample: 387390-003 SD / MSD

Project ID:

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/27/10 19:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	103	99.5	104	70-135	
o-Terphenyl	53.1	49.8	107	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: Peterson C Well #1

Work Order #: 387388

Project ID:

Lab Batch #: 821086

Sample: 572124-1-BKS

Matrix: Solid

Date Analyzed: 08/31/2010

Date Prepared: 08/30/2010

Analyst: ASA

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Benzene	ND	0.0996	0.0898	90	70-130	
Toluene	ND	0.0996	0.0882	89	70-130	
Ethylbenzene	ND	0.0996	0.0918	92	71-129	
m,p-Xylenes	ND	0.1992	0.1791	90	70-135	
o-Xylene	ND	0.0996	0.0918	92	71-133	

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

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

BRL - Below Reporting Limit

Project Name: Peterson C Well #1

Work Order #: 387388

Analyst: LATCOR

Lab Batch ID: 820841

Sample: 820841-1-BKS

Units: mg/kg

Project ID:

Date Analyzed: 08/27/2010

Matrix: Solid

Date Prepared: 08/27/2010

Batch #: 1

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Inorganic Anions by EPA 300/300.1	ND	10.0	9.98	100	10	10.3	103	3	80-120	20	
Chloride											

Analyst: BEV

Lab Batch ID: 820781

Sample: 571907-1-BKS

Units: mg/kg

Date Prepared: 08/27/2010

Batch #: 1

Date Analyzed: 08/27/2010

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015 Mod	ND	998	1030	103	996	1040	104	1	70-135	35	
C6-C12 Gasoline Range Hydrocarbons	ND	998	1000	100	996	1010	101	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons											

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

Project Name: Peterson C Well #1

Work Order #: 387388

Lab Batch #: 820841

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Project ID:

Analyst: LATCOR

QC- Sample ID: 387262-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	171	201	366	97	80-120	

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

QL - Below Reporting Limit

Project Name: Peterson C Well #1

Work Order #: 387388

Lab Batch #: 820841

Date Analyzed: 08/27/2010

QC- Sample ID: 387262-001 D

Reporting Units: mg/kg

Date Prepared: 08/27/2010

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY

Inorganic Anions by EPA 300/300.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	171	175	2	20	

Lab Batch #: 820734

Date Analyzed: 08/28/2010

QC- Sample ID: 387388-001 D

Reporting Units: %

Date Prepared: 08/28/2010

Batch #: 1

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	16.5	15.4	7	20	

Lab Batch #: 820668

Date Analyzed: 08/27/2010

QC- Sample ID: 387388-001 D

Reporting Units: SU

Date Prepared: 08/27/2010

Batch #: 1

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY

Soil pH by EPA 9045C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
pH	8.12	8.13	0	20	

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

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

BRL - Below Reporting Limit

Project Name: Peterson C Well #1

Work Order # 387388

Project ID:

Lab Batch ID: 821086

QC-Sample ID: 387020-001 S

Batch #: 1

Matrix: Soil

Date Analyzed: 08/31/2010

Date Prepared: 08/30/2010

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spiked Sample %R Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1114	0.0350	31	0.1125	0.0618	55	55	70-130	35	XF
Toluene	ND	0.1114	0.0328	29	0.1125	0.0580	52	56	70-130	35	XF
Ethylbenzene	ND	0.1114	0.0305	27	0.1125	0.0547	49	57	71-129	35	XF
m,p-Xylenes	ND	0.2227	0.0681	31	0.2250	0.1150	51	51	70-135	35	XF
o-Xylene	ND	0.1114	0.0355	32	0.1125	0.0569	51	46	71-133	35	XF

Lab Batch ID: 820781

QC-Sample ID: 387390-003 S

Batch #: 1

Matrix: Soil

Date Analyzed: 08/27/2010

Date Prepared: 08/27/2010

Analyst: BEV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	ND	1330	1420	107	1330	1480	111	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1330	1370	103	1330	1420	107	4	70-135	35	

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

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

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



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

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Endeavor
 Date/Time: 08-27-10 @ 0818
 Lab ID #: 387388
 Initials: JMF

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		<u>id on lid</u>
9. Container labels legible and intact?	Yes	No		<u>"</u>
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>5.1</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Sample Cross Reference 390736

Endeavor Energy, Midland, TX

Peterson "C" Well #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PWSW1-001	S	Sep-21-10 13:00	0 - 48 In	390736-001
PWNW2-001	S	Sep-21-10 13:06	0 - 48 In	390736-002
PWNE3-001	S	Sep-21-10 13:10	0 - 48 In	390736-003
PWSE4-001	S	Sep-21-10 13:15	0 - 48 In	390736-004
PWFN1-001	S	Sep-21-10 12:35	0 - 48 In	390736-005
PWFC2-001	S	Sep-21-10 12:42	0 - 48 In	390736-006
PWFS3-001	S	Sep-21-10 12:57	0 - 48 In	390736-007

CASE NARRATIVE



Client Name: Endeavor Energy
Project Name: Peterson "C" Well #1



Project ID: Fence line Pit
Work Order Number: 390736

Report Date: 25-SEP-10
Date Received: 09/22/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-824258 TPH By SW8015 Mod

None

Batch: LBA-824274 Percent Moisture

None

Batch: LBA-824277 Anions by E300

None

Batch: LBA-824526 BTEX by EPA 8021B
SW8021BM

Batch 824526, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 390736-003,390736-001. 1,4 Difluorobenzene was within QC limits.

SW8021BM

Batch 824526, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 390736-006, -003, -007, -001.

The Laboratory Control Sample for Toluene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-824570 BTEX by EPA 8021B
SW8021BM

Batch 824570, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 390736-004.

CASE NARRATIVE



Client Name: Endeavor Energy
Project Name: Peterson "C" Well #1



Project ID: Fence line Pit
Work Order Number: 390736

Report Date: 25-SEP-10
Date Received: 09/22/2010

Batch: LBA-824680 BTEX by EPA 8021B
SW8021BM

Batch 824680, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 390736-002.

Project Id: Fence line Pit
Contact: Ronnie Nickell
Project Location: Roosevelt Co., NM

Date Received in Lab: Wed Sep-22-10 09:25 am
Report Date: 25-SEP-10
Project Manager: Brent Barron, II

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	390736-007 PWFS3-001 0-48 In SOIL Sep-21-10 12:57
Anions by E300	Extracted: Analyzed: Units/RL:	 Sep-22-10 12:14 mg/kg RL 25.8 4.61
Chloride		
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	Sep-22-10 12:50 Sep-23-10 10:17 mg/kg RL
Benzene		ND 0.0011
Toluene		ND 0.0022
Ethylbenzene		ND 0.0011
m,p-Xylenes		ND 0.0022
o-Xylene		ND 0.0011
Total Xylenes		ND 0.0011
Total BTEX		ND 0.0011
Percent Moisture	Extracted: Analyzed: Units/RL:	 Sep-22-10 17:00 % RL 8.88 1.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	Sep-22-10 11:20 Sep-22-10 18:34 mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 16.5
C12-C28 Diesel Range Hydrocarbons		ND 16.5
C28-C35 Oil Range Hydrocarbons		ND 16.5
Total TPH		ND 16.5

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

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


Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

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

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

Project Name: Peterson "C" Well #1

Work Orders : 390736,

Project ID: Fence line Pit

Lab Batch #: 824526

Sample: 574012-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/23/10 04:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0265	0.0300	88	80-120	

Lab Batch #: 824526

Sample: 574012-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/23/10 04:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 824526

Sample: 574012-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/23/10 05:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 824526

Sample: 390757-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 06:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 824526

Sample: 390757-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 06:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 390736,

Project ID: Fence line Pit

Lab Batch #: 824526

Sample: 390736-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 09:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 824526

Sample: 390736-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 10:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 824526

Sample: 390736-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 14:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0472	0.0300	157	80-120	*

Lab Batch #: 824526

Sample: 390736-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/23/10 15:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.1338	0.0300	446	80-120	*

Lab Batch #: 824570

Sample: 574257-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/23/10 17:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0350	0.0300	117	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 390736,

Project ID: Fence line Pit

Lab Batch #: 824258

Sample: 390739-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/22/10 21:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.0	99.7	87	70-135	
o-Terphenyl	44.5	49.9	89	70-135	

Lab Batch #: 824258

Sample: 390739-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/22/10 21:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	99.8	87	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: Peterson "C" Well #1

Work Order #: 390736

Analyst: SEE

Project ID: Fence line Pit

Date Analyzed: 09/23/2010

Date Prepared: 09/22/2010

Lab Batch ID: 824526

Sample: 574012-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B	ND	0.1000	0.1070	107	0.1	0.0989	99	8	70-130	35	
Benzene	ND	0.1000	0.0948	95	0.1	0.0862	86	10	70-130	35	
Toluene	ND	0.1000	0.0996	100	0.1	0.0898	90	10	71-129	35	
Ethylbenzene	ND	0.2000	0.1995	100	0.2	0.1801	90	10	70-135	35	
m,p-Xylenes	ND	0.1000	0.0826	83	0.1	0.0752	75	9	71-133	35	
o-Xylene	ND										

Units: mg/kg

Date Prepared: 09/23/2010

Date Analyzed: 09/23/2010

Lab Batch ID: 824570

Sample: 574257-1-BKS

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B	ND	0.1000	0.0918	92	0.1	0.0819	82	11	70-130	35	
Benzene	ND	0.1000	0.0899	90	0.1	0.0804	80	11	70-130	35	
Toluene	ND	0.1000	0.0924	92	0.1	0.0826	83	11	71-129	35	
Ethylbenzene	ND	0.2000	0.1834	92	0.2	0.1640	82	11	70-135	35	
m,p-Xylenes	ND	0.1000	0.0921	92	0.1	0.0823	82	11	71-133	35	
o-Xylene	ND										

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

Project Name: Peterson "C" Well #1

Work Order #: 390736

Analyst: SEE

Lab Batch ID: 824680

Sample: 574313-1-BKS

Batch #: 1

Date Prepared: 09/24/2010

Project ID: Fence line Pit

Date Analyzed: 09/24/2010

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B	ND	0.5000	0.4256	85	0.5	0.4773	95	11	70-130	35	
Benzene	ND	0.5000	0.4194	84	0.5	0.4712	94	12	70-130	35	
Toluene	ND	0.5000	0.4346	87	0.5	0.4868	97	11	71-129	35	
Ethylbenzene	ND	1.000	0.8629	86	1	0.9618	96	11	70-135	35	
m,p-Xylenes	ND	0.5000	0.4360	87	0.5	0.4869	97	11	71-133	35	
o-Xylene	ND										

Analyst: LATCOR

Date Prepared: 09/22/2010

Date Analyzed: 09/22/2010

Lab Batch ID: 824277

Sample: 824277-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anions by E300	ND	10.0	9.74	97	10	9.64	96	1	75-125	20	
Chloride	ND										

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

Project Name: Peterson "C" Well #1

Work Order #: 390736

Analyst: BEV

Lab Batch ID: 824258

Sample: 574058-1-BKS

Date Prepared: 09/22/2010

Batch #: 1

Project ID: Fence line Pit

Date Analyzed: 09/22/2010

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons		ND	1000	1020	102	1010	1070	106	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons		ND	1000	905	91	1010	913	90	1	70-135	35	

Analytes

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

Project Name: Peterson "C" Well #1

Work Order #: 390736

Lab Batch #: 824277

Date Analyzed: 09/22/2010

QC- Sample ID: 390736-001 S

Reporting Units: mg/kg

Date Prepared: 09/22/2010

Batch #: 1

Project ID: Fence line Pit

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300

Analytes

Chloride

Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
539	226	756	96	75-125	

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

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

All Results are based on MDL and Validated for QC Purposes

RL - Below Reporting Limit

Project Name: Peterson "C" Well #1

Work Order #: 390736
 Lab Batch ID: 824526
 Date Analyzed: 09/23/2010
 Reporting Units: mg/kg

Project ID: Fence line Pit
 QC- Sample ID: 390757-002 S
 Date Prepared: 09/22/2010
 Batch #: 1
 Matrix: Soil
 Analyst: SEE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1225	0.0909	74	0.1225	0.1028	84	12	70-130	35	
Toluene	ND	0.1225	0.0631	52	0.1225	0.0733	60	15	70-130	35	X
Ethylbenzene	ND	0.1225	0.0724	59	0.1225	0.0831	68	14	71-129	35	X
m,p-Xylenes	ND	0.2451	0.1763	72	0.2451	0.1967	80	11	70-135	35	
o-Xylene	ND	0.1225	0.0735	60	0.1225	0.0826	67	12	71-133	35	X

Lab Batch ID: 824570
 Date Analyzed: 09/23/2010
 Reporting Units: mg/kg

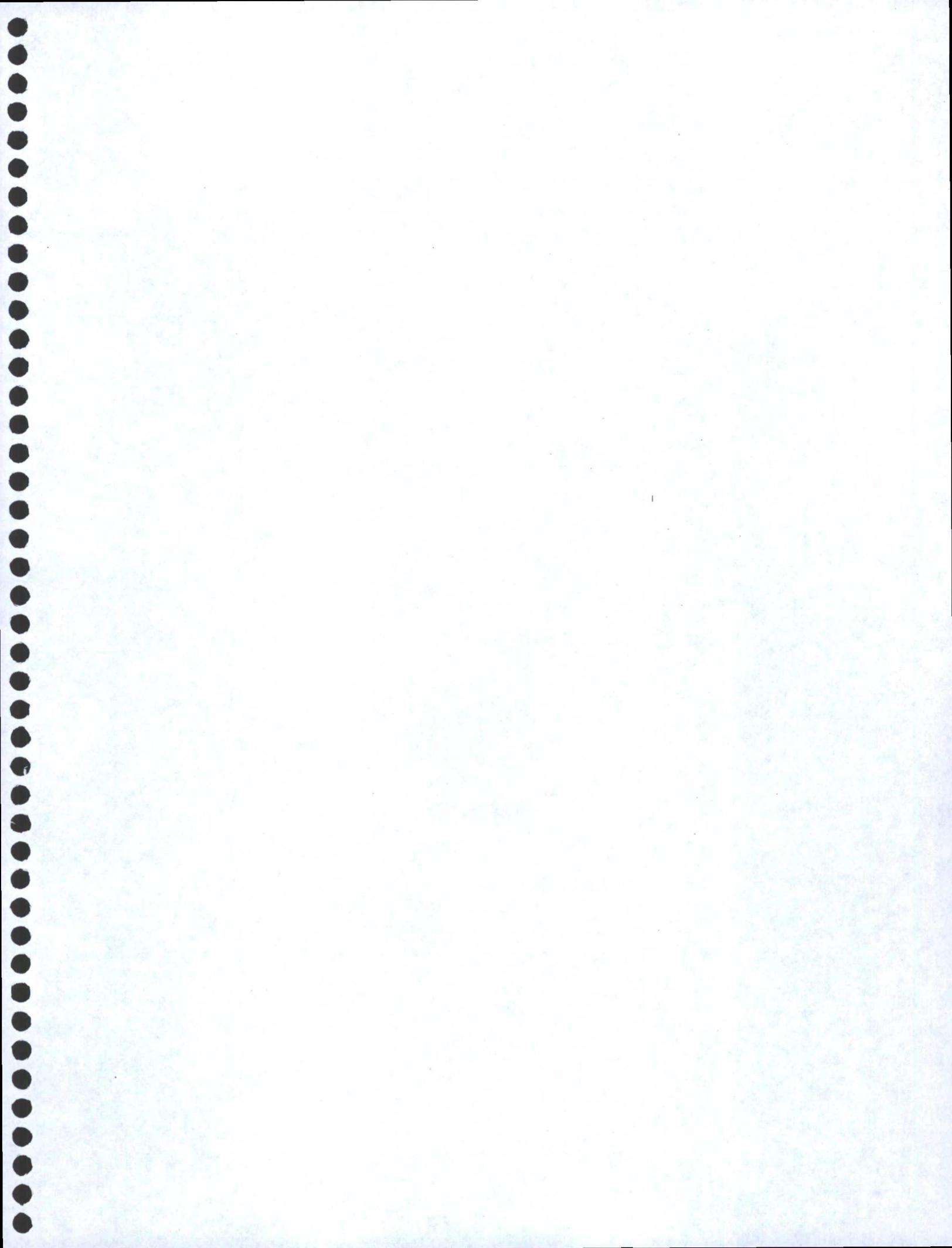
QC- Sample ID: 391036-001 S
 Date Prepared: 09/23/2010
 Batch #: 1
 Matrix: Soil
 Analyst: SEE

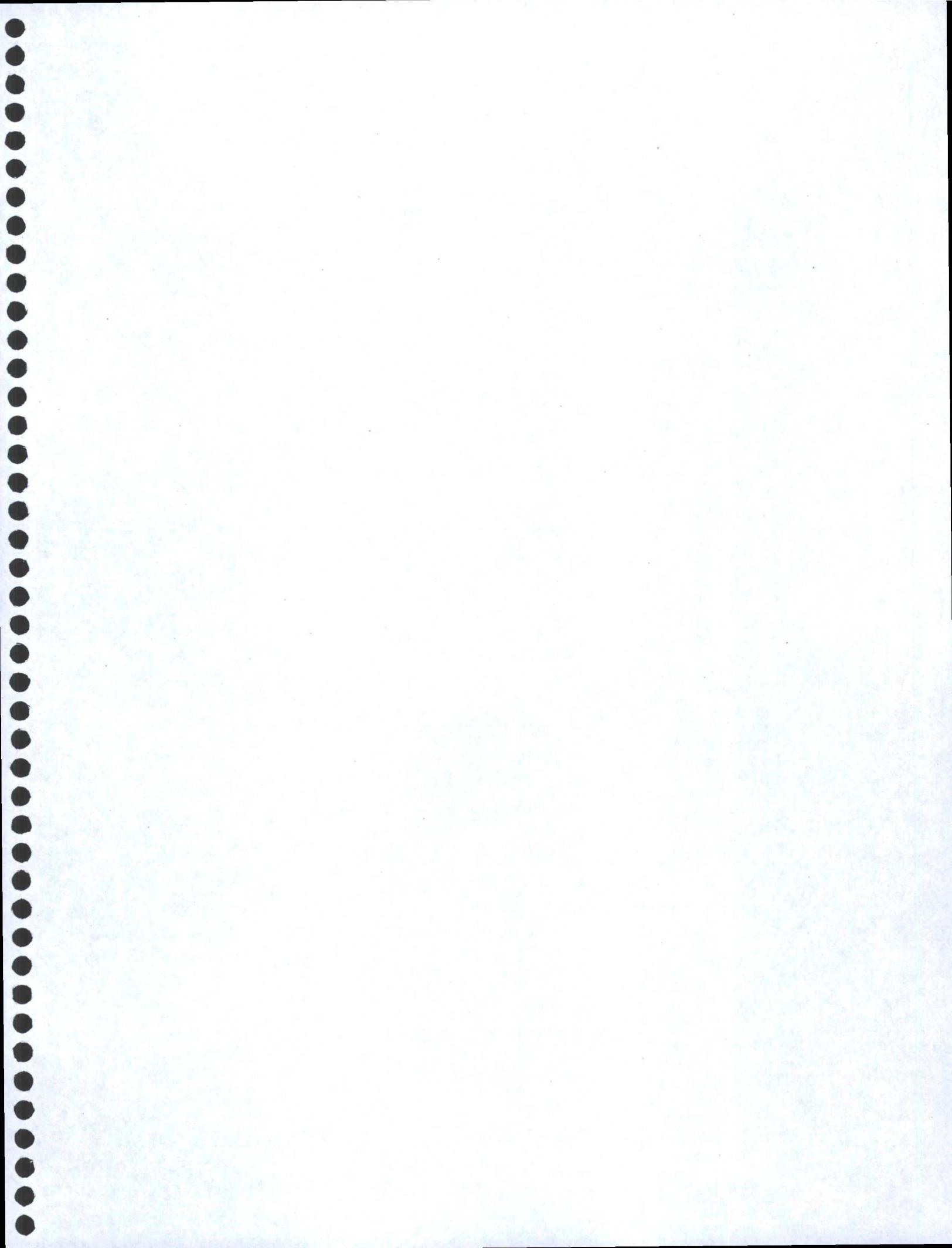
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

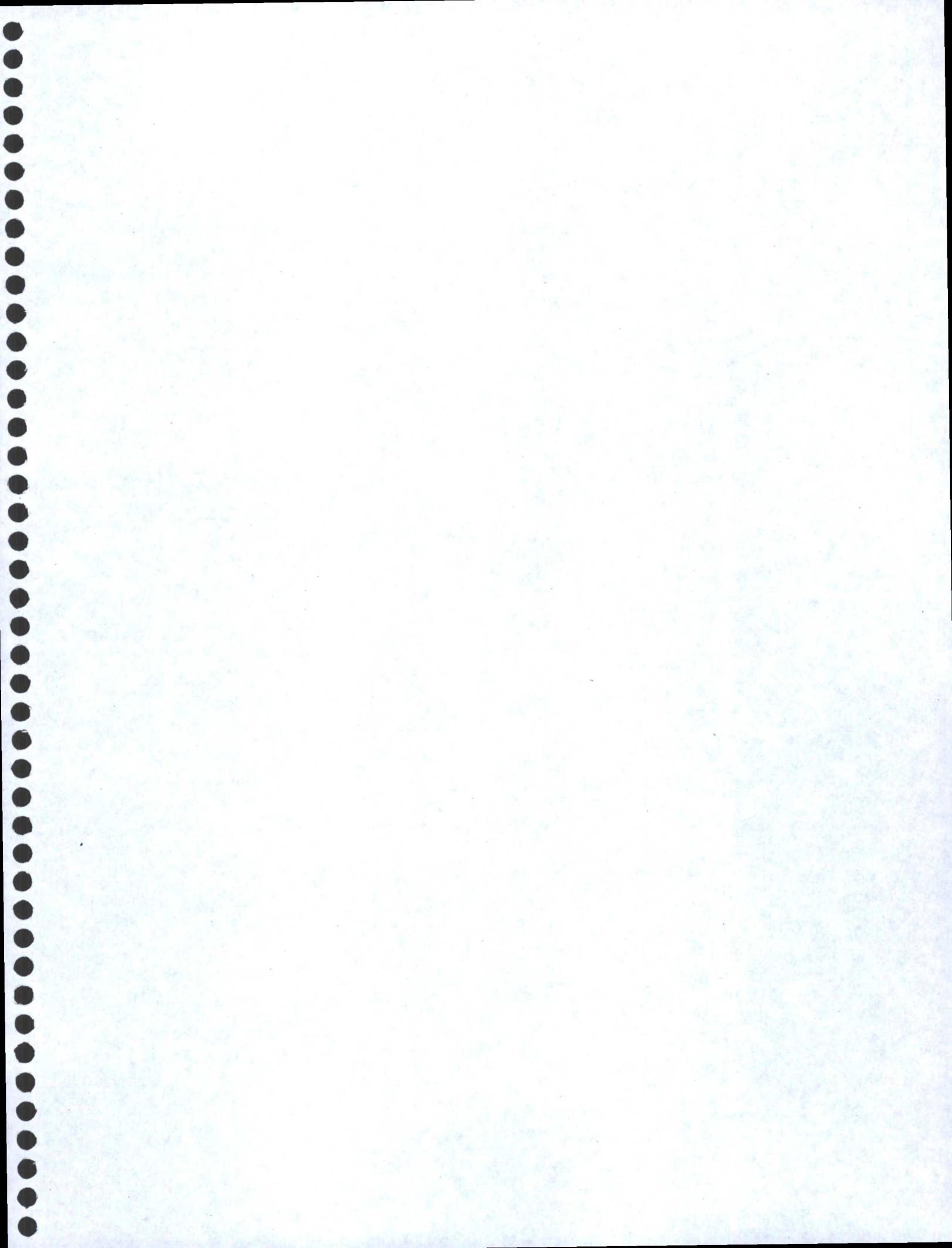
Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	ND	0.1000	0.0812	81	0.1000	0.0839	84	3	70-130	35	
Toluene	0.0050	0.1000	0.0818	77	0.1000	0.0843	79	3	70-130	35	
Ethylbenzene	0.0046	0.1000	0.0796	75	0.1000	0.0819	77	3	71-129	35	
m,p-Xylenes	0.0051	0.2000	0.1522	74	0.2000	0.1569	76	3	70-135	35	
o-Xylene	0.0021	0.1000	0.0730	71	0.1000	0.0752	73	3	71-133	35	

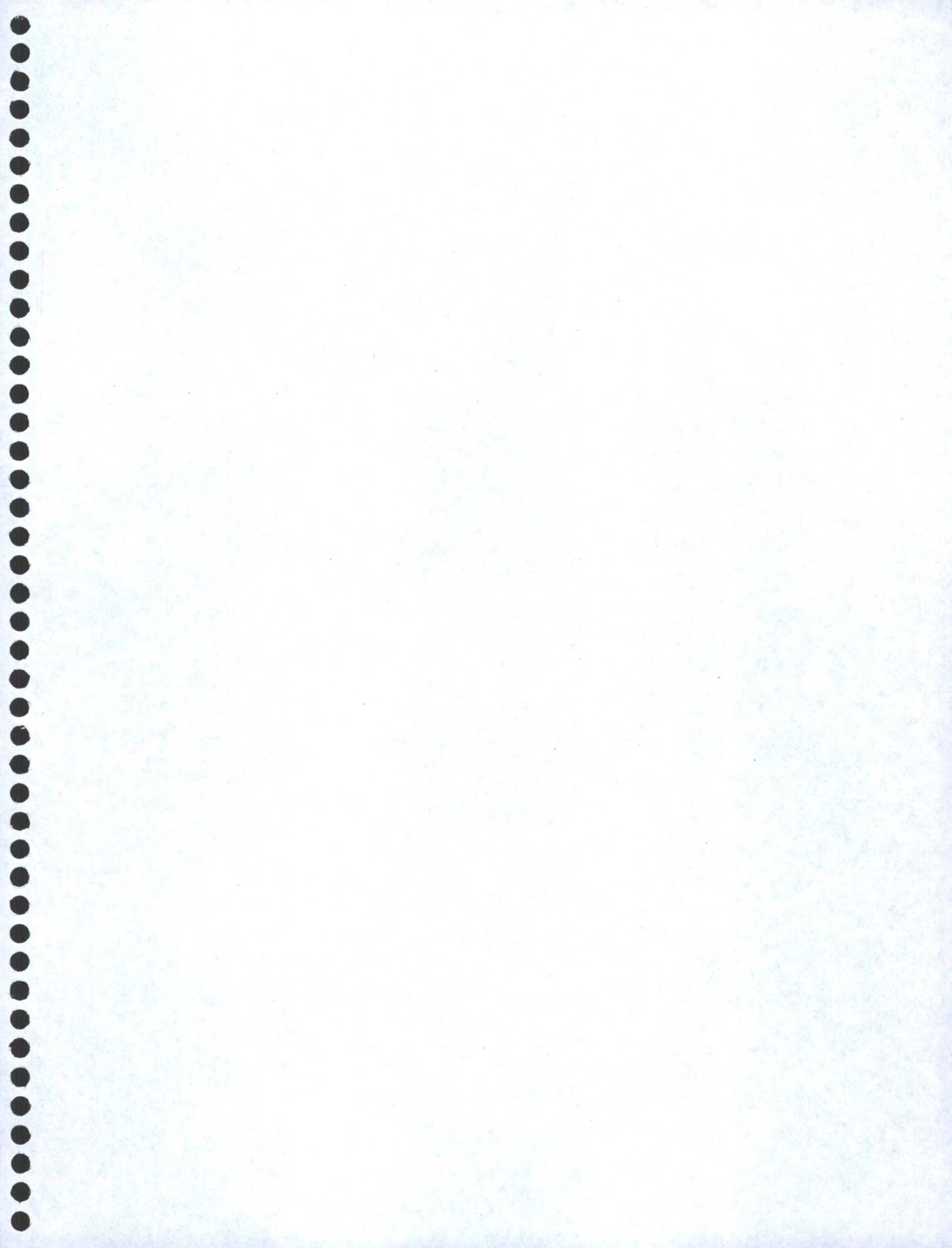
rix Spike Percent Recovery [D] = 100*(C-A)/B
 ive Percent Difference RPD = 200*((C-F)/(C+F))
 = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
 licableN = See Narrative, EQL = Estimated Quantitation Limit

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









Project Name: Peterson "C" Well #1

Work Order #: 390736

Project ID: Fence line Pit

Lab Batch ID: 824258

Batch #: 1 Matrix: Soil

Date Analyzed: 09/22/2010

QC-Sample ID: 390739-001 S Analyst: BEV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod 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
	C6-C12 Gasoline Range Hydrocarbons	ND	1160	1200	103	1160	1220	105	2	70-135	35
C12-C28 Diesel Range Hydrocarbons	ND	1160	944	81	1160	955	82	1	70-135	35	

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

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

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

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>3.6</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 392009

for
Endeavor Energy

Project Manager: Ronnie Nickell

Peterson "C" Well #1

Pit

05-OCT-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):

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

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

05-OCT-10

Project Manager: **Ronnie Nickell**
Endeavor Energy
110 N. Marienfeld, Suite 200

Midland, TX 79701

Reference: XENCO Report No: **392009**
Peterson "C" Well #1
Project Address: Roosevelt Co, NM

Ronnie Nickell:

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 392009. 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. 392009 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 392009



Endeavor Energy, Midland, TX

Peterson "C" Well #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PW SE1-002	S	Sep-30-10 10:17	0 - 60 In	392009-001
PW NE2-002	S	Sep-30-10 10:22	0 - 60 In	392009-002
PW NW3-002	S	Sep-30-10 10:26	0 - 60 In	392009-003
PW SW4-002	S	Sep-30-10 10:30	0 - 60 In	392009-004

CASE NARRATIVE



Client Name: Endeavor Energy
Project Name: Peterson "C" Well #1



Project ID: Pit
Work Order Number: 392009

Report Date: 05-OCT-10
Date Received: 10/01/2010

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Project Id: Pit
Contact: Ronnie Nickell
Project Location: Roosevelt Co, NM

Date Received in Lab: Fri Oct-01-10 08:44 am
Report Date: 05-OCT-10
Project Manager: Brent Barron, II

Project Name: Peterson "C" Well #1

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	392009-001	392009-002	392009-003	392009-004			
		PW SE1-002	PW NE2-002	0-60 In	SOIL	Sep-30-10 10:17	0-60 In	SOIL	0-60 In	SOIL		
Anions by E300	Extracted:	Oct-01-10 14:40	mg/kg	RL	91.6	4.59	376	9.29	149	4.58	50.3	4.78
	Analyzed:	Oct-01-10 14:40	%	RL								
	Units/RL:											
Percent Moisture	Extracted:	Oct-01-10 17:00	%	RL	8.42	1.00	9.57	1.00	8.21	1.00	12.1	1.00
	Analyzed:	Oct-01-10 17:00	%	RL								
	Units/RL:											
TPH By SW8015 Mod	Extracted:	Oct-01-10 10:40	mg/kg	RL	2110	16.4	2020	16.6	1640	16.3	17.1	17.1
	Analyzed:	Oct-01-10 14:32	mg/kg	RL	3520	16.4	4980	16.6	3160	16.3	123	17.1
	Units/RL:				128	16.4	188	16.6	113	16.3	ND	17.1
C6-C12 Gasoline Range Hydrocarbons					5758	16.4	7188	16.6	4913	16.3	140	17.1
C12-C28 Diesel Range Hydrocarbons												
C28-C35 Oil Range Hydrocarbons												
Total TPH												

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

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Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

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

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Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 392009,

Project ID: Pit

Lab Batch #: 825806

Sample: 575002-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/01/10 12:31		SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes								
1-Chlorooctane		84.2	100	84	70-135			
o-Terphenyl		55.1	50.2	110	70-135			

Lab Batch #: 825806

Sample: 575002-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/01/10 12:51		SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes								
1-Chlorooctane		168	201	84	70-135			
o-Terphenyl		92.6	100	93	70-135			

Lab Batch #: 825806

Sample: 575002-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/01/10 13:10		SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes								
1-Chlorooctane		88.2	99.9	88	70-135			
o-Terphenyl		46.5	50.0	93	70-135			

Lab Batch #: 825806

Sample: 392009-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/01/10 14:32		SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes								
1-Chlorooctane		104	100	104	70-135			
o-Terphenyl		46.2	50.1	92	70-135			

Lab Batch #: 825806

Sample: 392009-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/01/10 14:51		SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes								
1-Chlorooctane		104	100	104	70-135			
o-Terphenyl		38.6	50.1	77	70-135			

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 392009,

Project ID: Pit

Lab Batch #: 825806

Sample: 392009-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/01/10 15:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.8	100	70-135	
o-Terphenyl	46.2	49.9	93	70-135	

Lab Batch #: 825806

Sample: 392009-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/01/10 15:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	100	87	70-135	
o-Terphenyl	47.1	50.2	94	70-135	

Lab Batch #: 825806

Sample: 392004-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/01/10 18:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.9	89	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 825806

Sample: 392004-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/02/10 09:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.9	100	87	70-135	
o-Terphenyl	57.0	50.1	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

Project Name: Peterson "C" Well #1

Work Order #: 392009

Analyst: LATCOR

Lab Batch ID: 825707

Sample: 825707-1-BKS

Units: mg/kg

Date Prepared: 10/01/2010

Batch #: 1

Project ID: Pit

Date Analyzed: 10/01/2010

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	ND	10.0	10.3	103	10	10.2	102	1	75-125	20	

Analyst: BEV

Date Prepared: 10/01/2010

Date Analyzed: 10/01/2010

Lab Batch ID: 825806

Sample: 575002-1-BKS

Units: mg/kg

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1010	101	1000	1050	105	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	903	90	1000	815	82	10	70-135	35	

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

Project Name: Peterson "C" Well #1

Work Order #: 392009

Lab Batch #: 825707

Date Analyzed: 10/01/2010

QC- Sample ID: 392009-001 S

Reporting Units: mg/kg

Date Prepared: 10/01/2010

Batch #: 1

Project ID: Pit

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	91.6	109	205	104	75-125	

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

BL - Below Reporting Limit

Project Name: Peterson "C" Well #1

Work Order #: 392009

Project ID: Pit

Lab Batch ID: 825806

Batch #: 1 Matrix: Soil

Date Analyzed: 10/01/2010

QC-Sample ID: 392004-002 S Date Prepared: 10/01/2010 Analyst: BEV

Reporting Units: mg/kg

TPH By SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1040	1100	106	1040	1070	103	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1040	890	86	1040	875	84	2	70-135	35	

rix Spike Percent Recovery [D] = 100*(C-A)/B
 itive Percent Difference RPD = 200*(C-F)/(C+F)
 = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
 licableN = See Narrative, EQL = Estimated Quantitation Limit

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

Project Name: Peterson "C" Well #1

Work Order #: 392009

Lab Batch #: 825707

Project ID: Pit

Date Analyzed: 10/01/2010

Date Prepared: 10/01/2010

Analyst: LATCOR

QC- Sample ID: 392009-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	91.6	94.1	3	20	

Lab Batch #: 825712

Date Analyzed: 10/01/2010

Date Prepared: 10/01/2010

Analyst: JLG

QC- Sample ID: 392004-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	10.0	10.4	4	20	

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

Xenco Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY REC
12600 West I-20 East
Odessa, Texas 79765

Project Manager: Rennie Nickell
Company Name: Endavor Energy
Company Address: Michlamb Rd
City/State/Zip: _____

Telephone No: _____ Fax No: _____
Sampler Signature: Rennie Nickell e-mail: _____

ORDER # 392009

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix			
								HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Portable Specify Other				
	PRSEL-009	0"	10"	9-30-09	10:15am		1														Soil
	PRNE3-003	1"	10"	10-1-09	10:15am		1														Soil
	PRNE3-003	1"	10"	10-1-09	10:15am		1														Soil
	PRNE4-004	1"	10"	10-1-09	10:15am		1														Soil

Special Instructions:

Relinquished by: <u>Rennie Nickell</u>	Date: <u>10-1-09</u>	Time: <u>5:00pm</u>	Received by: _____	Date: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____

1. Samples on ice?	<u>Blue</u>	Water	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 3.6 °C	lbs °C	lbs °C	lbs °C	lbs °C

~~80402~~ 80402 Ex1

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 394229

for
Endeavor Energy

Project Manager: Ronnie Nickell

Peterson "C" Well #1

21-OCT-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)

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

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

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North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

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

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

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

21-OCT-10

Project Manager: **Ronnie Nickell**
Endeavor Energy
110 N. Marienfeld, Suite 200

Midland, TX 79701

Reference: XENCO Report No: **394229**
Peterson "C" Well #1
Project Address: Roosevelt Co, NM

Ronnie Nickell:

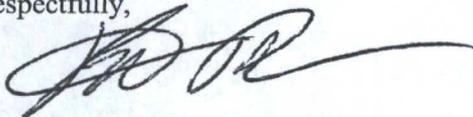
We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 394229. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory 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. 394229 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,



Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 394229

Endeavor Energy, Midland, TX

Peterson "C" Well #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PWSE1-003	S	Oct-19-10 13:15	0 - 10 ft	394229-001
PWNE2-003	S	Oct-19-10 13:20	0 - 10 ft	394229-002
PWNW3-003	S	Oct-19-10 13:25	0 - 10 ft	394229-003



CASE NARRATIVE

Client Name: Endeavor Energy
Project Name: Peterson "C" Well #1



Project ID:
Work Order Number: 394229

Report Date: 21-OCT-10
Date Received: 10/20/2010

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

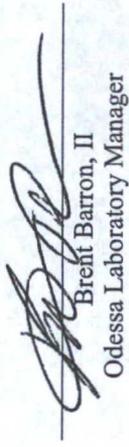
None

Project Id:
Contact: Ronnie Nickell
Project Location: Roosevelt Co, NM

Date Received in Lab: Wed Oct-20-10 08:15 am
Report Date: 21-OCT-10
Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
Percent Moisture	394229-001	PWSE1-003	0-10 ft	SOIL	Oct-19-10 13:15		Oct-20-10 09:50	% RL 1.00
								7.11 1.00
TPH By SW8015 Mod	394229-002	PWNE2-003	0-10 ft	SOIL	Oct-19-10 13:20		Oct-20-10 09:50	% RL 1.00
								1.70 1.00
C6-C12 Gasoline Range Hydrocarbons	394229-003	PWNW3-003	0-10 ft	SOIL	Oct-19-10 13:25		Oct-20-10 09:50	% RL 1.00
								7.86 1.00
C12-C28 Diesel Range Hydrocarbons							Oct-20-10 09:35	mg/kg RL 16.3
								ND 16.1
C28-C35 Oil Range Hydrocarbons							Oct-20-10 12:21	mg/kg RL 16.3
								ND 16.1
Total TPH							Oct-20-10 12:41	mg/kg RL 16.3
								332 15.3
							Oct-20-10 13:00	mg/kg RL 16.3
								ND 16.3
								332 15.3
								ND 16.3

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



Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

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

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2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 394229,

Project ID:

Lab Batch #: 828395

Sample: 576599-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/20/10 11:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	75.5	100	76	70-135	
o-Terphenyl	54.1	50.1	108	70-135	

Lab Batch #: 828395

Sample: 576599-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/20/10 11:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.9	99.7	75	70-135	
o-Terphenyl	42.8	49.9	86	70-135	

Lab Batch #: 828395

Sample: 576599-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/20/10 12:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.7	100	80	70-135	
o-Terphenyl	43.2	50.1	86	70-135	

Lab Batch #: 828395

Sample: 394229-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/20/10 12:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.3	99.6	77	70-135	
o-Terphenyl	40.5	49.8	81	70-135	

Lab Batch #: 828395

Sample: 394229-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/20/10 12:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.2	100	73	70-135	
o-Terphenyl	40.9	50.1	82	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well #1

Work Orders : 394229,

Project ID:

Lab Batch #: 828395

Sample: 394229-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/20/10 13:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.9	100	74	70-135	
o-Terphenyl	39.4	50.1	79	70-135	

Lab Batch #: 828395

Sample: 394229-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/20/10 16:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.7	100	83	70-135	
o-Terphenyl	46.4	50.2	92	70-135	

Lab Batch #: 828395

Sample: 394229-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/20/10 17:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.6	100	77	70-135	
o-Terphenyl	39.1	50.1	78	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: Peterson "C" Well #1

Work Order #: 394229

Analyst: BEV

Lab Batch ID: 828395

Sample: 576599-1-BKS

Date Prepared: 10/20/2010

Batch #: 1

Project ID:

Date Analyzed: 10/20/2010

Matrix: Solid

Units: mg/kg

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH By SW8015 Mod											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	985	99	997	949	95	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	887	89	997	864	87	3	70-135	35	

Analytes

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

Project Name: Peterson "C" Well #1

Work Order #: 394229

Lab Batch ID: 828395

Date Analyzed: 10/20/2010

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 394229-003 S Batch #: 1 Matrix: Soil

Date Prepared: 10/20/2010 Analyst: BEV

Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										Flag
	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	
C6-C12 Gasoline Range Hydrocarbons	ND	1090	1110	102	1090	1040	95	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1090	1070	98	1090	951	87	12	70-135	35	

rix Spike Percent Recovery [D] = 100*(C-A)/B
 tive Percent Difference RPD = 200*(C-F)/(C+F)
 = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
 licableN = See Narrative, EQL = Estimated Quantitation Limit

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

Project Name: Peterson "C" Well #1

Work Order #: 394229

Lab Batch #: 828255

Project ID:

Date Analyzed: 10/20/2010

Date Prepared: 10/20/2010

Analyst: WRU

QC- Sample ID: 394227-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.15	2.09	3	20	

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



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

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Endeavor Energy
 Date/Time: 10/20/10 8:15
 Lab ID #: 394229
 Initials: KM

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 403457

for
Endeavor Energy

Project Manager: Ronnie Nickell

Peterson "C" Well # 1

14-JAN-11



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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)
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Rhode Island (LAO00312), USDA (S-44102)

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

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

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Xenco-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)

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)



14-JAN-11

Project Manager: **Ronnie Nickell**
Endeavor Energy
110 N. Marienfeld, Suite 200

Midland, TX 79701

Reference: XENCO Report No: **403457**
Peterson "C" Well # 1
Project Address: Roosevelt Co., NM

Ronnie Nickell:

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 403457. 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.

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

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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Sample Cross Reference 403457



Endeavor Energy, Midland, TX

Peterson "C" Well # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PWN1-001	S	Jan-12-11 10:10	0 - 10 ft	403457-001



CASE NARRATIVE

Client Name: Endeavor Energy
Project Name: Peterson "C" Well # 1



Project ID:
Work Order Number: 403457

Report Date: 14-JAN-11
Date Received: 01/12/2011

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-839679 BTEX by EPA 8021B
SW8021BM

Batch 839679, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 403457-001.

SW8021BM

Batch 839679, Benzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 403457-001.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

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.

*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 - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well # 1

Work Orders : 403457,

Project ID:

Lab Batch #: 839679

Sample: 593374-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/13/11 22:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 839679

Sample: 593374-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/13/11 22:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 839679

Sample: 593374-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/14/11 00:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

Lab Batch #: 839679

Sample: 403367-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/14/11 04:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 839679

Sample: 403367-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/14/11 04:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0287	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well # 1

Work Orders : 403457,

Project ID:

Lab Batch #: 839679

Sample: 403457-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/14/11 08:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0426	0.0300	142	80-120	**

Lab Batch #: 839642

Sample: 593361-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/13/11 11:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.5	100	88	70-135	
o-Terphenyl	40.3	50.1	80	70-135	

Lab Batch #: 839642

Sample: 593361-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/13/11 11:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.9	100	86	70-135	
o-Terphenyl	40.0	50.1	80	70-135	

Lab Batch #: 839642

Sample: 593361-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 01/13/11 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.1	99.9	72	70-135	
o-Terphenyl	36.5	50.0	73	70-135	

Lab Batch #: 839642

Sample: 403457-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/13/11 16:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.5	100	84	70-135	
o-Terphenyl	42.5	50.2	85	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Peterson "C" Well # 1

Work Orders : 403457,

Lab Batch #: 839642

Sample: 403434-001 S / MS

Project ID:

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/13/11 17:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.9	99.9	88	70-135	
o-Terphenyl	37.9	50.0	76	70-135	

Lab Batch #: 839642

Sample: 403434-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/13/11 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	100	87	70-135	
o-Terphenyl	37.6	50.0	75	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Project Name: Peterson "C" Well # 1

Work Order #: 403457

Analyst: ASA

Lab Batch ID: 839679

Sample: 593374-1-BKS

Batch #: 1

Date Prepared: 01/13/2011

Project ID:

Date Analyzed: 01/13/2011

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
BTEX by EPA 8021B											
Benzene	<0.0010	0.1000	0.0983	98	0.1	0.0945	95	4	70-130	35	
Toluene	<0.0020	0.1000	0.0952	95	0.1	0.0908	91	5	70-130	35	
Ethylbenzene	<0.0010	0.1000	0.0961	96	0.1	0.0917	92	5	71-129	35	
m_p-Xylenes	<0.0020	0.2000	0.1963	98	0.2	0.1880	94	4	70-135	35	
o-Xylene	<0.0010	0.1000	0.0985	99	0.1	0.0923	92	6	71-133	35	

Analyst: LATCOR

Date Prepared: 01/13/2011

Date Analyzed: 01/13/2011

Lab Batch ID: 839550

Sample: 839550-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Anions by E300											
Chloride	< 4.20	10.0	9.39	94	10	9.05	91	4	75-125	20	

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

Project Name: Peterson "C" Well # 1

Work Order #: 403457

Analyst: BEV

Lab Batch ID: 839642

Sample: 593361-1-BKS

Date Prepared: 01/13/2011

Project ID:

Date Analyzed: 01/13/2011

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod

Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<50.0	1000	882	88	1000	881	88	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<50.0	1000	792	79	1000	845	85	6	70-135	35	

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

Project Name: Peterson "C" Well # 1

Work Order #: 403457

Lab Batch #: 839550

Date Analyzed: 01/13/2011

QC- Sample ID: 403434-001 S

Reporting Units: mg/kg

Date Prepared: 01/13/2011

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300

Analytes

Chloride

Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
260	1020	1220	94	75-125	

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

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

1 Results are based on MDL and Validated for QC Purposes

RL - Below Reporting Limit

Project Name: Peterson "C" Well # 1

Work Order #: 403457

Lab Batch ID: 839679

Date Analyzed: 01/14/2011

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 403367-002 S

Batch #: 1 Matrix: Soil

Date Prepared: 01/13/2011

Analyst: ASA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes

Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<0.0010	0.1040	0.0597	57	0.1040	0.0733	70	20	70-130	35	X
0.0063	0.1040	0.0660	57	0.1040	0.0787	70	18	70-130	35	X
0.0041	0.1040	0.0610	55	0.1040	0.0737	67	19	71-129	35	X
0.0296	0.2080	0.1506	58	0.2080	0.1777	71	17	70-135	35	X
0.0013	0.1040	0.0703	66	0.1040	0.0817	77	15	71-133	35	X

Lab Batch ID: 839642

Date Analyzed: 01/13/2011

Reporting Units: mg/kg

QC- Sample ID: 403434-001 S

Batch #: 1 Matrix: Soil

Date Prepared: 01/13/2011

Analyst: BEV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod

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
<25.6	1020	911	89	1020	898	88	1	70-135	35	
<25.6	1020	760	75	1020	721	71	5	70-135	35	

C6-C12 Gasoline Range Hydrocarbons

C12-C28 Diesel Range Hydrocarbons

rix Spike Percent Recovery [D] = 100*(C-A)/B
 itive Percent Difference RPD = 200*(C-F)/(C+F)
 = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not
 licableN = See Narrative, EQL = Estimated Quantitation Limit

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

Project Name: Peterson "C" Well # 1

Work Order #: 403457

Lab Batch #: 839550

Project ID:

Date Analyzed: 01/13/2011 09:01

Date Prepared: 01/13/2011

Analyst: LATICOR

QC- Sample ID: 403434-001 D

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	260	260	0	20	

Lab Batch #: 839545

Date Analyzed: 01/13/2011 09:00

Date Prepared: 01/13/2011

Analyst: WRU

QC- Sample ID: 403434-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.25	2.31	3	20	

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

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

BRL - Below Reporting Limit

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-863-1800
Fax: 432-863-1713

Project Manager: Rennie Nickell
Company Name: Endeavor Energy

Project Name: Peterson #1 Well #1

Company Address: Midland TX

Project #: _____

Project Loc: Prosvett Co, NM

City/State/Zip: _____

Telephone No: _____

Sampler Signature: Kassi Jurelyse
e-mail: kassie.jurelyse@southernv.com

Report Format: Standard TRRP NPDES

ORDER #: 403457

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers	Matrix	Analyze For:
01	P10N1-001	0" 10'	10' 12"	Jan 11	10:10am		1	Ice HNO ₃ HCl H ₂ SO ₄ NaOH Na ₂ S ₂ O ₈ None Other (Specify)	DW-Drinking Water Sludge GW = Groundwater Soil/Solid NP-Non-Portable Specify Other	TPH: 418.1 (8015M) 8015B TPH: TX 1005 TX 1006 Carbon (Ca, Mg, Na, K) Arsenic (As) (SO ₄ , Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles BTEX (8021B56030 or BTEX 8280) RCI N.O.R.M. Standard TAT RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Special Instructions:

Requisitioned by: Kassi Jurelyse Date: 12/11/11 Time: 2:50pm
 Requisitioned by: _____ Date: _____ Time: _____
 Requisitioned by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Received by ELOT: Andria Elam Date: 1-12-11 Time: 14:53

Laboratory Comments:
 Sample Containers intact?
 VOCs Free of Headspace?
 Labels on container(s)
 Custody seals on container(s)
 Custody seals on cooler(s)
 Sample Hand Delivered by Sampler/Client Rep. ?
 by Courier? UPS DHL
 Temperature Upon Receipt: 40.29/19.55 °C



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: Endeavor Energy
 Date/Time: 1/12/11 14:53
 Lab ID #: 403457
 Initials: AC

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>3.6</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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