

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Burgundy Oil & Gas of NM, Inc.	Contact	Ben Taylor
Address	401 W. Texas, Suite 1003, Midland, TX 79701	Telephone No.	(432) 684-4033
Facility Name	Eunice Monument Unit #29	Facility Type	Well / Flow Line
Surface Owner:	State	Mineral Owner:	State
			Lease No. 015823

LOCATION OF RELEASE API # 30.025.06171.00.00

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	20S	37E	660	South	1980	West	Lea

Latitude N 32.55215° Longitude W 103.29415°

NATURE OF RELEASE

Type of Release	Oil and Water	Volume of Release	3 bbl	Volume Recovered	None
Source of Release	Flow Line	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	9/21/09
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Leak discovered by J.R. Harrison - OCD at 3:49 pm		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

RECEIVED
MAY 13 2010
HOBSOCD

If a Watercourse was Impacted, Describe Fully.*

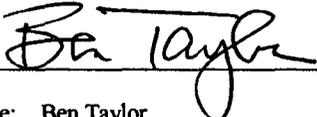
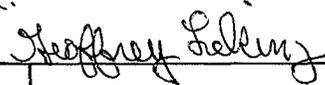
Describe Cause of Problem and Remedial Action Taken.*

Oil and water were released from a flow line. Excavation of impacted soil was conducted. Impacted soil was hauled to an NMOCD approved disposal facility. The excavation was backfilled with clean soil.

Describe Area Affected and Cleanup Action Taken.*

Soil was excavated in an approximate 320' x 75' x 9' (deep) area until laboratory results of samples reported TPH concentrations below 100 mg/kg and chloride concentrations below 250 mg/kg. Impacted soil was hauled to an NMOCD approved disposal facility, and the excavation was backfilled with clean soil. A site drawing with sample locations is attached, along with laboratory documentation, a table summarizing the sample results and a chloride report of water similar to that which was released.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

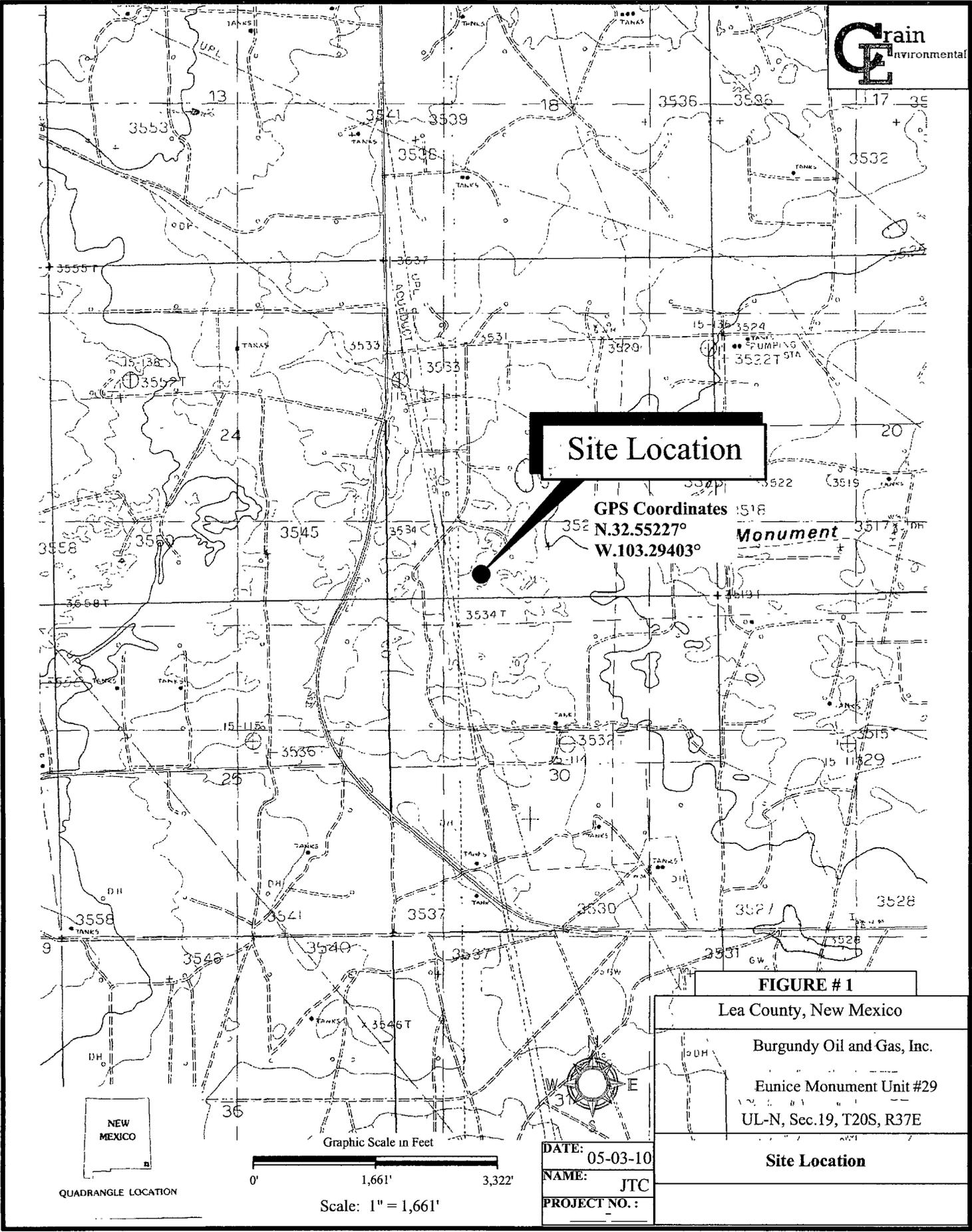
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Ben Taylor	ENV ENGINEER: Approved by District Supervisor: 	
Title: Production Manager	Approval Date: 05/14/10	Expiration Date: —
E-mail Address: bogi@t3wireless.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/08/10 Phone: (432) 684-4033		IRP-9-11-2320

Attach Additional Sheets If Necessary

Table 1: Summary of Laboratory Analysis of Soil Samples
Burgundy Oil & Gas, Inc., EMU #29
Unit Letter N, Section 19, Township 20 South, Range 37 East
Lea County, New Mexico

Sample Date	Soil Sample Number	Sample Depth (feet BGS)	TPH C6-C12 (mg/kg)	TPH C12-C28 (mg/kg)	TPH C28-C40 (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Soil Status
Standard (WQCC)													
10/12/09	SS-1	3	61.7	547	60.4	669	3240	<0.0013	<0.0025	<0.0013	<0.0013	<0.0064	Excavated
10/12/09	SS-2	4	4,260	21,200	2,390	27,850	1,880	0.7887	2.531	4.084	17.622	25.026	Excavated
10/13/09	SS-3	7	70.1	607	75.8	753	515	<0.0011	<0.0022	0.0030	0.0136	0.0166	Excavated
11/9/09	SS-1	0-6"	90.8	1,380	178	1,649	177	<0.0010	<0.0020	<0.0010	0.0052	0.0052	Excavated
11/23/09		7	36.4	1,070	83.9	1,190	---	---	---	---	---	---	Excavated
12/16/09		8	32.5	229	23.9	285	---	---	---	---	---	---	Excavated
1/19/10		9	<18.4	<18.4	<18.4	<55.2	---	---	---	---	---	---	In Place
11/9/09	SS-2	0-6"	40.1	1,030	114	1,184	474	<0.0010	<0.0021	<0.0010	<0.0010	<0.0051	Excavated
11/23/09		7	<15.4	76.3	152	228	781	---	---	---	---	---	Excavated
12/16/09		8	<17.1	26.4	<17.1	26.4	656	---	---	---	---	---	Excavated
1/19/10		9	---	---	---	---	9.95	---	---	---	---	---	In Place
11/9/09	SS-3	0-6"	156	1,730	158	2,044	857	0.0030	0.0023	0.0137	0.0237	0.0290	Excavated
11/23/09		7	<15.4	339	26.5	366	196	---	---	---	---	---	Excavated
12/16/09		8	<18.1	144	21.4	165	---	---	---	---	---	---	Excavated
1/19/10		9	<18.2	<18.2	<18.2	<54.6	---	---	---	---	---	---	In Place
11/9/09	SS-4	0-6"	<16.9	<16.9	<16.9	<50.7	1,320	<0.0011	<0.0023	<0.0011	<0.0011	<0.0056	Excavated
11/23/09		7	---	---	---	---	2,100	---	---	---	---	---	Excavated
12/16/09		8	---	---	---	---	271	---	---	---	---	---	Excavated
1/19/10		9	---	---	---	---	39.2	---	---	---	---	---	In Place
11/9/09	SS-5	0-6"	276	4,000	431	4,707	567	<0.0010	<0.0020	<0.0010	0.0015	0.0015	Excavated
11/23/09		7	<15.5	20.3	<15.5	20.3	1,790	---	---	---	---	---	Excavated
12/16/09		8	---	---	---	---	270	---	---	---	---	---	Excavated
1/19/10		9	---	---	---	---	55.6	---	---	---	---	---	In Place
11/9/09	SS-6	0-6"	<15.6	<15.6	<15.6	<46.8	1,100	<0.0010	<0.0021	<0.0010	<0.0010	<0.0051	Excavated
11/23/09		7	---	---	---	---	688	---	---	---	---	---	Excavated
12/16/09		8	---	---	---	---	510	---	---	---	---	---	Excavated
1/19/10		9	---	---	---	---	87.8	---	---	---	---	---	In Place
11/9/09	SS-7	0-6"	<16.1	<16.1	<16.1	<48.3	2,130	<0.0011	<0.0021	<0.0011	<0.0011	<0.0054	Excavated
11/23/09		7	---	---	---	---	1,980	---	---	---	---	---	Excavated
12/16/09		8	---	---	---	---	24.5	---	---	---	---	---	In Place
11/9/09	SS-8	Comp	<15.3	538	81.3	619	1,700	<0.0010	<0.0020	<0.0010	<0.0010	<0.0050	Excavated
11/23/09		Comp	<15.2	305	25.1	330	417	---	---	---	---	---	Excavated
1/19/10		Comp	<15.0	42.1	<15.0	42.1	25.1	---	---	---	---	---	In Place
11/9/09	SS-9	Comp	<15.0	<15.0	<15.0	<45.0	71.5	<0.0010	<0.0020	<0.0010	<0.0010	<0.0050	In Place
11/9/09	SS-10	Comp	<16.2	<16.2	<16.2	<48.6	9,200	<0.0011	<0.0022	<0.0011	<0.0011	<0.0055	Excavated
11/23/09		Comp	---	---	---	---	15,700	---	---	---	---	---	Excavated
12/16/09		Comp	---	---	---	---	10,000	---	---	---	---	---	Excavated
1/19/10		Comp	---	---	---	---	3,290	---	---	---	---	---	Excavated
4/6/10		Comp	---	---	---	---	63.1	---	---	---	---	---	In Place

Notes
1 BGS Depth in feet below ground surface
2 mg/kg Milligrams per kilogram
3 --- No data available
4 < Below method detection limit



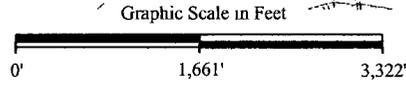
Site Location

GPS Coordinates
 N.32.55227°
 W.103.29403°

Monument



QUADRANGLE LOCATION



Scale: 1" = 1,661'

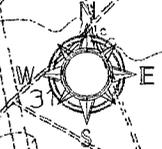
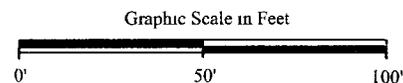
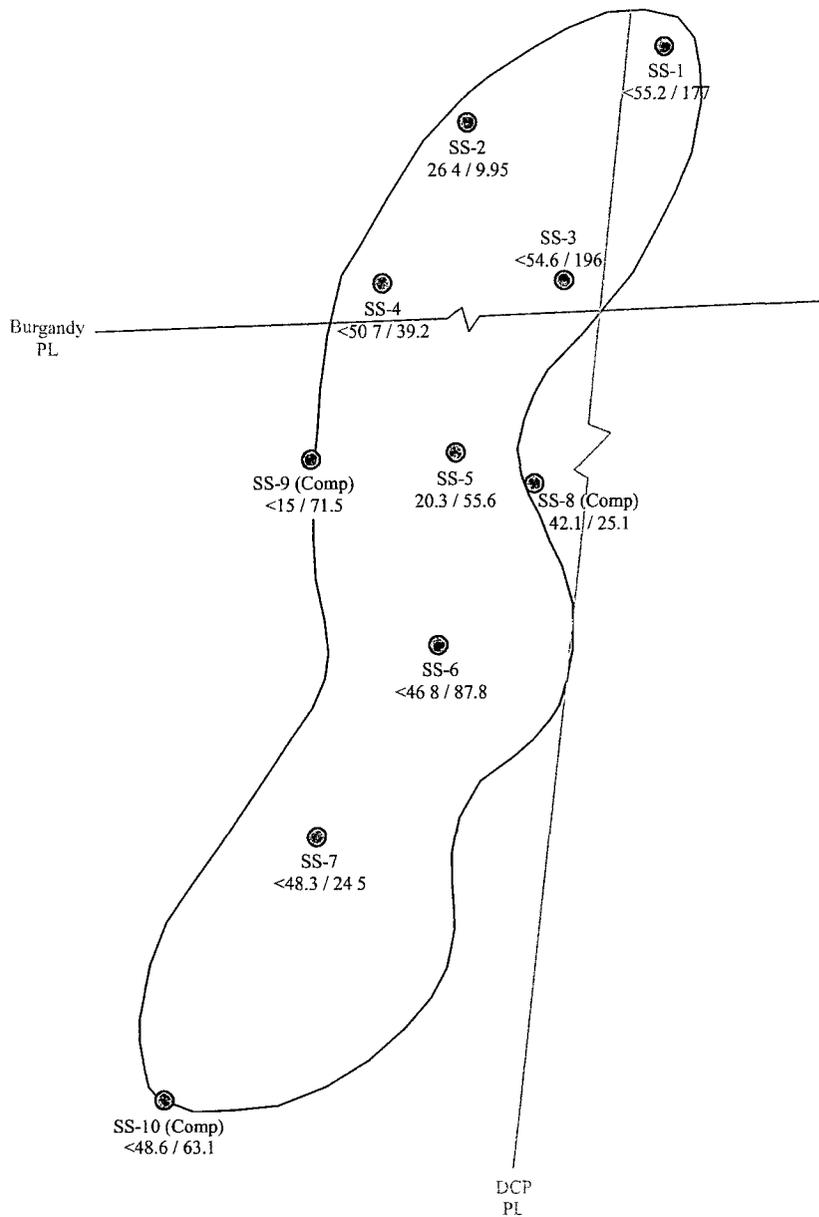


FIGURE # 1
Lea County, New Mexico
Burgundy Oil and Gas, Inc.
Eunice Monument Unit #29
UL-N, Sec.19, T20S, R37E
Site Location
DATE: 05-03-10
NAME: JTC
PROJECT NO. :



Scale: 1" = 50'

FIGURE # 2

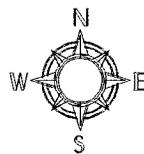
Lea County, New Mexico

Burgundy Oil and Gas, Inc.

Eunice Monument Unit #29

UL-N, Sec.19, T20S, R37E

Site Drawing With Soil Sample Locations



DATE: 05-03-10
NAME: JTC
PROJECT NO. :

GPS Coordinates

SS-1 N.32.55227 W.103.29403
SS-2 N.32.55222 W.103.29411
SS-3 N.32.55215 W.103.29407
SS-4 N.32.55215 W.103.29415
SS-5 N.32.55207 W.103.29406
SS-6 N.32.55204 W.103.29408
SS-7 N.32.55199 W.103.29414

LEGEND

● Soil Sample Location
With Final
TPH/Chloride
Concentrations (mg/kg)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
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Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Burgundy Oil & Gas of NM, INC.	Contact:	Ben Taylor
Address	401 W. 7th St. Suite 1003 Midland TX. 79701	Telephone No.	(432) 684-4033
Facility Name	Euclid monument plant #29	Facility Type	Well / FLOW LINE

Surface Owner	STATE	Mineral Owner	STATE	Lease No.	015823
---------------	-------	---------------	-------	-----------	--------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	20S	37E	660'	South	1980	West	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	OIL & WATER	Volume of Release	3 bbls	Volume Recovered	0 bbls
Source of Release	FLOW LINE	Date and Hour of Occurrence	UNK	Date and Hour of Discovery	9/21/09
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Leak discovered by J.R. Harrison - OCD 3:49 pm			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Small oil & water release from FLOW LINE. Compromised soil will be excavated and hauled to approved disposal facility by Ocotillo.

Describe Area Affected and Cleanup Action Taken.*
Testing of soil around spill site will be conducted. Results reported as become available.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

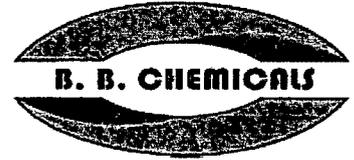
Signature:	<i>Ben Taylor</i>	OIL CONSERVATION DIVISION	
Printed Name:	Ben Taylor	Approved by District Supervisor:	
Title:	Prod. Manager	Approval Date:	Expiration Date:
E-mail Address:		Conditions of Approval:	Attached <input type="checkbox"/>
Date:	10/02/09	Phone:	(432) 684-4033

* Attach Additional Sheets If Necessary



Technical Services Group

16107 West University
Odessa, Texas 79769
(800)-374-2802



WATER ANALYSIS REPORT

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	08/01/07

City/ County	
State	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

Dissolved Gasses

	PPM
Hydrogen Sulfide	0
Carbon Dioxide	ND
Dissolved Oxygen	ND

Fluid Conditions

Fluid Temp.	72	°F
Resistivity (RW)	0.240	Ohm-m
pH	6.71	
SpGr.	1.012	

Cations

	mg/L	meq/L
Sodium	11,056	480.7
Calcium	1,163	58.1
Magnesium	146	12.0
Barium	1	0.0
Iron	0.4	0.0
Manganese	0.004	
Strontium	11.5	

Anions

	mg/L	meq/L
Bicarbonate	1,415	23.2
Chloride	15,517	437.1
Sulfate	1,125	23.4

Total Dissolved Solids	30,435
Total Ionic Strength	0.57
Total Hardness as CaCO3	3,502

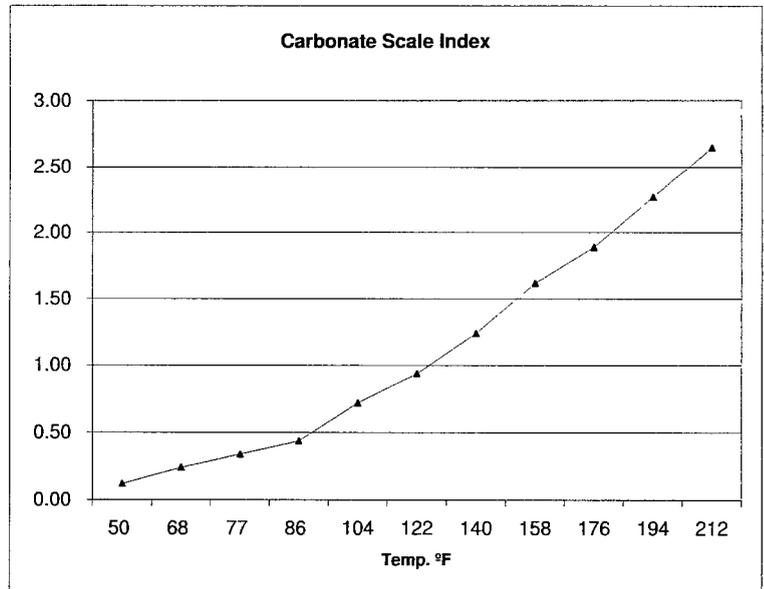
Calcium Carbonate Scaling Tendency

Stability Index:

°F	
50	0.12
68	0.24
77	0.34
86	0.44
104	0.72
122	0.94
140	1.24
158	1.62
176	1.89
194	2.27
212	2.65

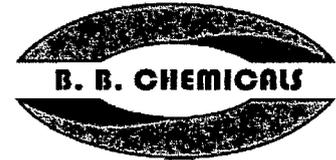
Calcium Carbonate Index Legend

SI of less than 0 = No Potential
SI of 0 to 0.5 = Marginal Potential
SI of 0.5 to 1.0 = Moderate Potential
SI of above 1.0 = Severe Potential



Technical Services Group

16107 West University
Odessa, Texas 79769
(800)-374-2802



WATER ANALYSIS REPORT

Page 2

Sample Information

Company	Burgundy
Lease	EMU
Well Number	34
Sample Location	Well head
Sample Date	8/1/2007

City/ State	
County	
Formation	
BB Chem. Rep.:	Ray Pierson
Analysis Date:	08/03/07

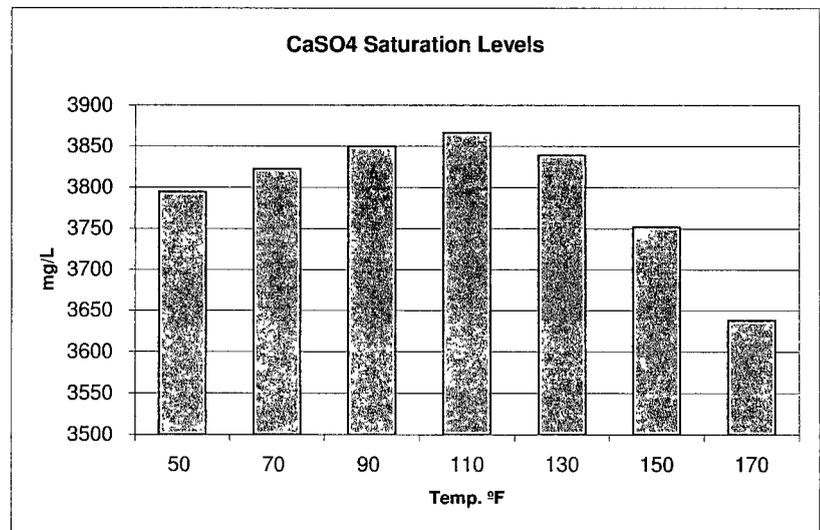
Calcium Sulfate Scaling Tendency

Maximum Amount of CaSO₄ which can be held in solution at these temperatures.

°F	mg/L
50	3794.62
70	3822.58
90	3850.39
110	3867.01
130	3839.29
150	3752.40
170	3638.12

Actual CaSO₄ Conc. = 2017.97

If the actual value exceeds any of the mg/L values above. Calcium sulfate scale is likely



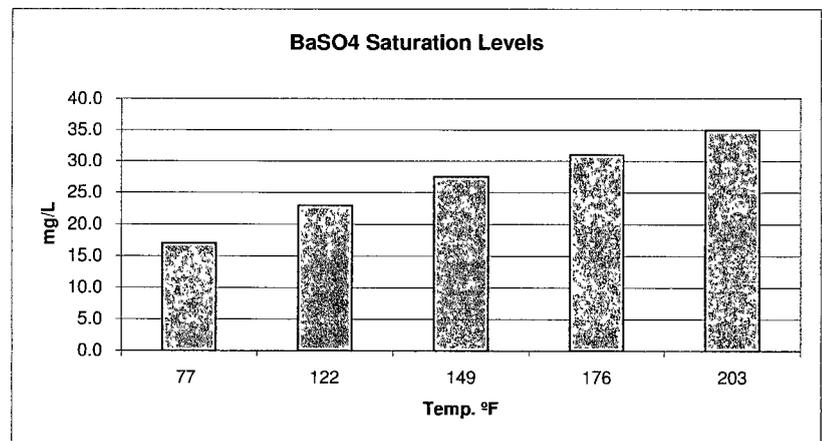
Barium Sulfate Scaling Tendency

Maximum Amount of BaSO₄ which can be held in solution at these temperatures.

°F	mg/L
77	17.0
122	23.0
149	27.5
176	31.0
203	35.0

Actual BaSO₄ Conc. = 1.41

If the actual value exceeds any of the mg/L values above. barium sulfate scale is likely



Analytical Report 348344

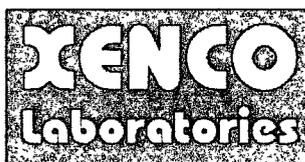
for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

21-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

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



21-OCT-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **348344**
Burgundy EMU Lease
Project Address: Lea County, NM

Cindy Crain:

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 348344. 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. 348344 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 348344



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Oct-12-09 13:25	3 - 3 ft	348344-001
SS-2	S	Oct-12-09 13:30	4 - 4 ft	348344-002
SS-3	S	Oct-13-09 10:50	7 - 7 ft	348344-003



CASE NARRATIVE

Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID:

Work Order Number: 348344

Report Date: 21-OCT-09

Date Received: 10/14/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-777207 Percent Moisture

None

Batch: LBA-777348 Inorganic Anions by EPA 300

None

Batch: LBA-777492 BTEX-MTBE EPA 8021B

SW8021BM

Batch 777492, Ethylbenzene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 348344-001.

The Laboratory Control Sample for Ethylbenzene is within laboratory Control Limits



CASE NARRATIVE

Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID:

Work Order Number: 348344

Report Date: 21-OCT-09

Date Received: 10/14/2009

*Batch: LBA-777544 BTEX-MTBE EPA 8021B
SW8021BM*

Batch 777544, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 348344-002, -003.

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

SW8021BM

Batch 777544, 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 348221-001 S, 348221-001 SD, 348344-002.

SW8021BM

Batch 777544, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene RPD was outside QC limits.

Samples affected are: 348344-002, -003

Batch: LBA-777890 TX1005

SW8015M

Batch 777890, 1-Chlorooctane recovered above QC limits; Data confirmed by re-analysis.

Samples affected are: 348344-002, 348653-001 S

o-Terphenyl recovered below QC limits; Data confirmed by re-analysis. Samples affected are: 340344-002

Matrix interference is suspected in sample surrogate failures.



Certificate of Analysis Summary 348344

Ocotillo Environmental, LLC, Hobbs, NM



Project Id:

Project Name: Burgundy EMU Lease

Date Received in Lab: Wed Oct-14-09 11:26 am

Contact: Cindy Crain

Report Date: 21-OCT-09

Project Location: Lea County, NM

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	348344-001	348344-002	348344-003			
	<i>Field Id:</i>	SS-1	SS-2	SS-3			
	<i>Depth:</i>	3-3 ft	4-4 ft	7-7 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Oct-12-09 13:25	Oct-12-09 13:30	Oct-13-09 10:50			
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-15-09 11:25	Oct-15-09 11:45	Oct-15-09 12:05			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		3240 53.2	1880 23.9	515 9.37			
BTEX by EPA 8021B	<i>Extracted:</i>	Oct-16-09 10:00	Oct-15-09 17:45	Oct-15-09 17:45			
	<i>Analyzed:</i>	Oct-16-09 16:11	Oct-16-09 09:03	Oct-16-09 08:21			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.0013	0.7887 0.1130	ND 0.0011			
Toluene		ND 0.0025	2.531 0.2260	ND 0.0022			
Ethylbenzene		ND 0.0013	4.084 0.1130	0.0030 0.0011			
m,p-Xylenes		ND 0.0025	9.061 0.2260	0.0074 0.0022			
o-Xylene		ND 0.0013	8.561 0.1130	0.0062 0.0011			
Total Xylenes		ND 0.0013	17.622 0.1130	0.0136 0.0011			
Total BTEX		ND 0.0013	25.026 0.1130	0.0166 0.0011			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-14-09 13:00	Oct-14-09 13:00	Oct-14-09 13:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		21.1 1.00	12.2 1.00	10.3 1.00			
TPH By SW8015 Mod	<i>Extracted:</i>	Oct-16-09 10:40	Oct-16-09 10:40	Oct-16-09 10:40			
	<i>Analyzed:</i>	Oct-19-09 19:18	Oct-19-09 19:45	Oct-19-09 20:14			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		61.7 19.0	4260 341	70.1 16.4			
C12-C28 Diesel Range Hydrocarbons		547 19.0	21200 341	607 16.4			
C28-C40 Oil Range Hydrocarbons		60.4 19.0	2390 341	75.8 16.4			
Total TPH		669 19.0	27850 341	753 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

* Outside XENCO's scope of NELAC Accreditation.

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Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 348344,

Project ID:

Lab Batch #: 777492

Sample: 540732-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/16/09 10:48		SURROGATE RECOVERY STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0292	0.0300	97	80-120	
4-Bromofluorobenzene		0.0311	0.0300	104	80-120	

Lab Batch #: 777492

Sample: 540732-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/16/09 11:31		SURROGATE RECOVERY STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0259	0.0300	86	80-120	
4-Bromofluorobenzene		0.0293	0.0300	98	80-120	

Lab Batch #: 777492

Sample: 348344-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/16/09 16:11		SURROGATE RECOVERY STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	

Lab Batch #: 777492

Sample: 348344-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/16/09 21:12		SURROGATE RECOVERY STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	

Lab Batch #: 777492

Sample: 348344-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/16/09 21:33		SURROGATE RECOVERY STUDY		
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0279	0.0300	93	80-120	
4-Bromofluorobenzene		0.0359	0.0300	120	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: Burgundy EMU Lease

Work Orders : 348344,

Project ID:

Lab Batch #: 777544

Sample: 540708-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/16/09 00:38	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0299	0.0300	100	80-120	

Lab Batch #: 777544

Sample: 540708-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/16/09 00:59	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0302	0.0300	101	80-120	
4-Bromofluorobenzene		0.0304	0.0300	101	80-120	

Lab Batch #: 777544

Sample: 540708-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 10/16/09 01:41	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0262	0.0300	87	80-120	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120	

Lab Batch #: 777544

Sample: 348344-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/16/09 08:21	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0310	0.0300	103	80-120	

Lab Batch #: 777544

Sample: 348344-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 10/16/09 09:03	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0271	0.0300	90	80-120	
4-Bromofluorobenzene		0.0558	0.0300	186	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: Burgundy EMU Lease

Work Orders : 348344,

Project ID:

Lab Batch #: 777544

Sample: 348221-001 S / MS

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 10/16/09 09:45	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
BTEX by EPA 8021B						
Analytes						
1,4-Difluorobenzene		0.0254	0.0300	85	80-120	
4-Bromofluorobenzene		0.0379	0.0300	126	80-120	*

Lab Batch #: 777544

Sample: 348221-001 SD / MSD

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 10/16/09 10:06	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
BTEX by EPA 8021B						
Analytes						
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0389	0.0300	130	80-120	*

Lab Batch #: 777890

Sample: 541004-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 10/19/09 17:57	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH By SW8015 Mod						
Analytes						
1-Chlorooctane		115	99.5	116	70-135	
o-Terphenyl		36.6	49.8	73	70-135	

Lab Batch #: 777890

Sample: 541004-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 10/19/09 18:24	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH By SW8015 Mod						
Analytes						
1-Chlorooctane		113	99.6	113	70-135	
o-Terphenyl		36.1	49.8	72	70-135	

Lab Batch #: 777890

Sample: 541004-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY						
Units: mg/kg	Date Analyzed: 10/19/09 18:51	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
TPH By SW8015 Mod						
Analytes						
1-Chlorooctane		76.1	99.7	76	70-135	
o-Terphenyl		37.4	49.9	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.



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 348344,
Lab Batch #: 777890

Project ID:

Sample: 348344-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg	Date Analyzed: 10/19/09 19:18	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	73.9	99.9	74	70-135	
o-Terphenyl	36.3	50.0	73	70-135	

Lab Batch #: 777890 **Sample:** 348344-002 / SMP
Units: mg/kg **Date Analyzed:** 10/19/09 19:45

Batch: 1 **Matrix:** Soil

Units: mg/kg	Date Analyzed: 10/19/09 19:45	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	191	99.9	191	70-135	**
o-Terphenyl	5.59	50.0	11	70-135	**

Lab Batch #: 777890 **Sample:** 348344-003 / SMP
Units: mg/kg **Date Analyzed:** 10/19/09 20:14

Batch: 1 **Matrix:** Soil

Units: mg/kg	Date Analyzed: 10/19/09 20:14	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	73.6	98.0	75	70-135	
o-Terphenyl	36.1	49.0	74	70-135	

Lab Batch #: 777890 **Sample:** 348653-001 S / MS
Units: mg/kg **Date Analyzed:** 10/20/09 04:09

Batch: 1 **Matrix:** Soil

Units: mg/kg	Date Analyzed: 10/20/09 04:09	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	143	99.9	143	70-135	**
o-Terphenyl	53.5	50.0	107	70-135	

Lab Batch #: 777890 **Sample:** 348653-001 SD / MSD
Units: mg/kg **Date Analyzed:** 10/20/09 04:37

Batch: 1 **Matrix:** Soil

Units: mg/kg	Date Analyzed: 10/20/09 04:37	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	131	99.9	131	70-135	
o-Terphenyl	52.8	50.0	106	70-135	

* Surrogate outside of Laboratory QC limits
 ** Surrogates outside limits; data and surrogates confirmed by reanalysis
 *** Poor recoveries due to dilution
 Surrogate Recovery [D] = 100 * A / B
 All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 348344

Project ID:

Lab Batch #: 777492

Sample: 540732-1-BKS

Matrix: Solid

Date Analyzed: 10/16/2009

Date Prepared: 10/16/2009

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	0.1000	0.0891	89	70-130	
Toluene	ND	0.1000	0.0892	89	70-130	
Ethylbenzene	ND	0.1000	0.0914	91	71-129	
m,p-Xylenes	ND	0.2000	0.2021	101	70-135	
o-Xylene	ND	0.1000	0.0969	97	71-133	

Lab Batch #: 777348

Sample: 777348-1-BKS

Matrix: Solid

Date Analyzed: 10/15/2009

Date Prepared: 10/15/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	9.84	98	75-125	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 348344

Analyst: ASA

Date Prepared: 10/15/2009

Project ID:

Date Analyzed: 10/16/2009

Lab Batch ID: 777544

Sample: 540708-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	ND	0.1000	0.0982	98	0.1	0.0987	99	1	70-130	35	
Toluene	ND	0.1000	0.0959	96	0.1	0.0964	96	1	70-130	35	
Ethylbenzene	ND	0.1000	0.0977	98	0.1	0.0984	98	1	71-129	35	
m,p-Xylenes	ND	0.2000	0.2163	108	0.2	0.2177	109	1	70-135	35	
o-Xylene	ND	0.1000	0.1031	103	0.1	0.1042	104	1	71-133	35	

Analyst: BEV

Date Prepared: 10/16/2009

Date Analyzed: 10/19/2009

Lab Batch ID: 777890

Sample: 541004-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	995	915	92	996	905	91	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	738	74	996	728	73	1	70-135	35	

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

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

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 348344

Lab Batch #: 777348

Date Analyzed: 10/15/2009

QC- Sample ID: 348352-001 S

Reporting Units: mg/kg

Date Prepared: 10/15/2009

Batch #: 1

Project ID:

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	73.4	402	458	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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 348344

Project ID:

Lab Batch ID: 777492

QC- Sample ID: 348344-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/16/2009

Date Prepared: 10/16/2009

Analyst: ASA

Reporting Units: mg/kg

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
Benzene	ND	0.1268	0.0959	76	0.1268	0.0966	76	1	70-130	35	
Toluene	ND	0.1268	0.0937	74	0.1268	0.0944	74	1	70-130	35	
Ethylbenzene	ND	0.1268	0.0919	72	0.1268	0.0877	69	5	71-129	35	X
m,p-Xylenes	ND	0.2535	0.2012	79	0.2535	0.2011	79	0	70-135	35	
o-Xylene	ND	0.1268	0.0970	76	0.1268	0.0963	76	1	71-133	35	

Lab Batch ID: 777544

QC- Sample ID: 348221-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/16/2009

Date Prepared: 10/15/2009

Analyst: ASA

Reporting Units: mg/kg

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
Benzene	0.0043	0.1164	0.0546	43	0.1164	0.0029	0	180	70-130	35	XF
Toluene	0.0136	0.1164	0.0575	38	0.1164	0.0046	0	170	70-130	35	XF
Ethylbenzene	0.0373	0.1164	0.0610	20	0.1164	0.0219	0	94	71-129	35	XF
m,p-Xylenes	0.1173	0.2327	0.1379	9	0.2327	0.0624	0	75	70-135	35	XF
o-Xylene	0.0114	0.1164	0.0492	32	0.1164	0.0088	0	139	71-133	35	XF

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 348344

Project ID:

Lab Batch ID: 777890

QC- Sample ID: 348653-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 10/20/2009

Date Prepared: 10/16/2009

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	1100	1050	95	1100	1060	96	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	99.7	1100	888	72	1100	928	75	4	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 348344

Lab Batch #: 777348

Project ID:

Date Analyzed: 10/15/2009

Date Prepared: 10/15/2009

Analyst: LATCOR

QC- Sample ID: 348352-001 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	73.4	72.3	2	20	

Lab Batch #: 777207

Date Analyzed: 10/14/2009

Date Prepared: 10/14/2009

Analyst: WRU

QC- Sample ID: 348344-001 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	21.1	20.0	5	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

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client Quotillo Env
 Date/ Time 10 14 09 11:26
 Lab ID # 348344
 Initials AL

Sample Receipt Checklist

			Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	36 °C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	No	
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No	
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cap / Lid
#9 Container label(s) legible and intact?	Yes	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	No	
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No	See Below
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	See Below
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No	See Below
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Variance Documentation

Contact _____ Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken:

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



22-OCT-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **348344**
Burgundy EMU Lease
Project Address: Lea County, NM

Cindy Crain:

On October 14, 2009, Xenco laboratories received three samples. The requested analysis for these samples was BTEX by method SW8021, Chlorides by method EPA 300, and TPH by method 8015M. Additionally, a fingerprint/product Identification analysis was requested on these samples.

For the fingerprint/product identification analysis, Xenco laboratories used the extract from the TPH 8015 analysis. These extracts were analyzed on a Gas Chromatograph (GC) with a Flame Ionization Detector (FID). The resulting chromatography was reviewed and compared to daily standards, as well as reference chromatography for product identification.

The following determinations and opinions were made of the contamination present in the samples.

The contamination in Samples SS-1, SS-2 and SS-3 appears to be from crude oil Contamination and is fairly consistent between the three samples with the following exception. Sample SS-2 also appears to have some lighter hydrocarbons present prior to the Crude oil area in this sample. This area of chromatography is not present in samples SS-1 and SS-3 and could be the result of condensate or other light hydrocarbons such as gasoline.

The chromatography for the samples listed above is attached to this report as well as reference chromatography.

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

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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

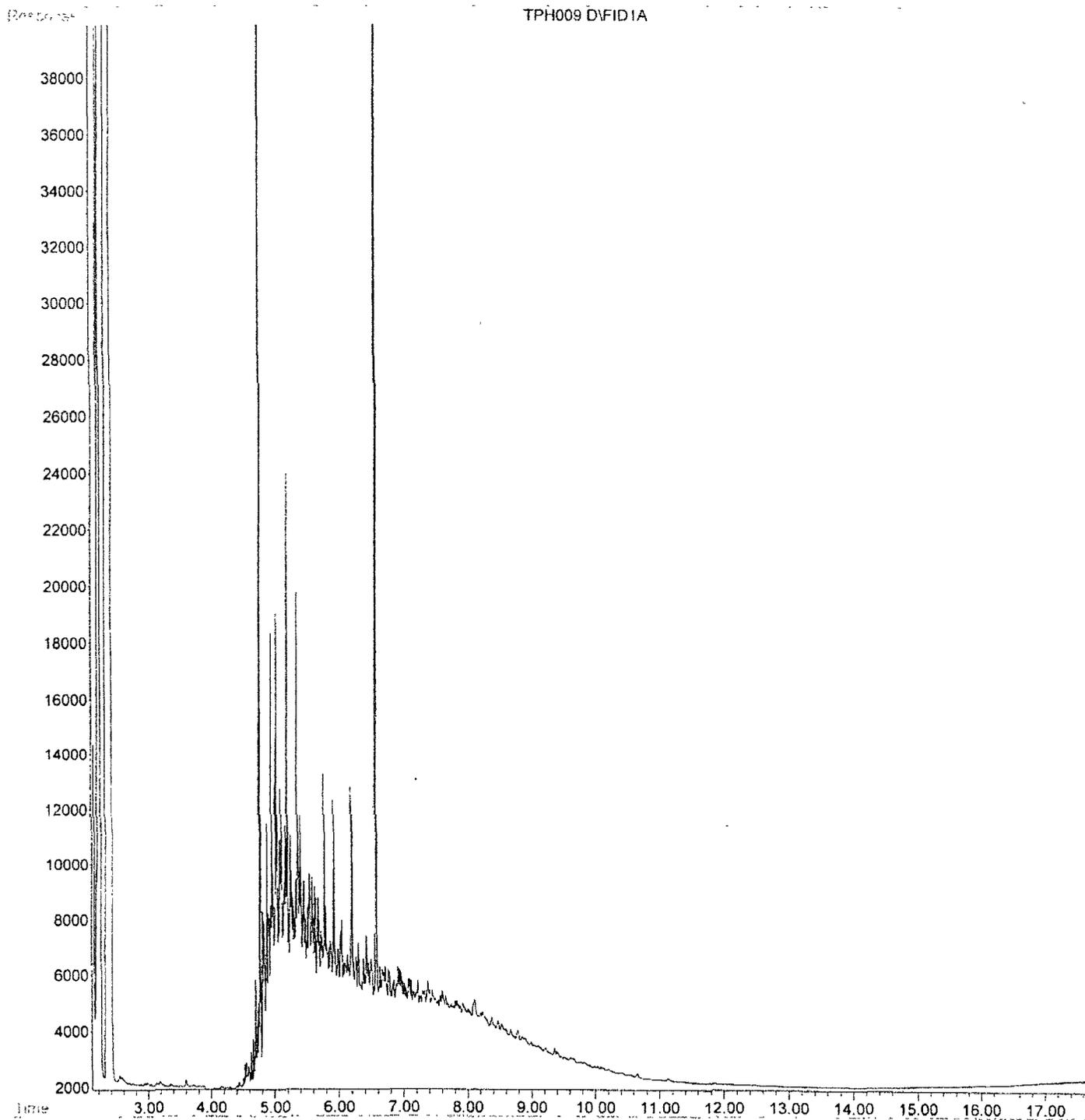
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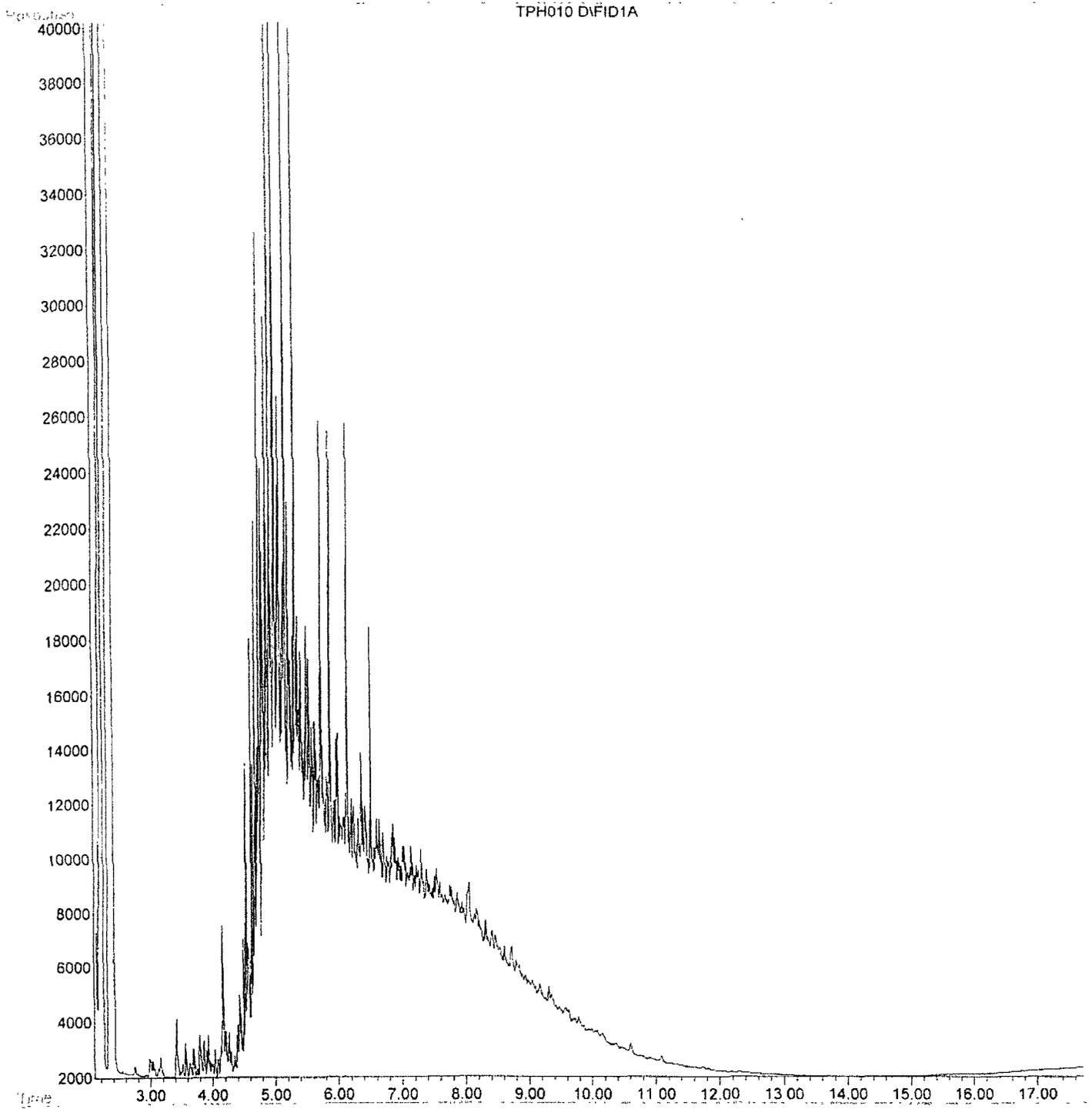
File : C:\HPCHEM\1\DATA\101909\TPH009.D
Operator : BR/AS
Acquired : 19 Oct 2009 19:18 using AcqMethod 1005BB.M
Instrument : A108
Sample Name: 348344-001
Misc Info : 10/16/09 10:40 BR SOILS
Vial Number: 8

SS-1



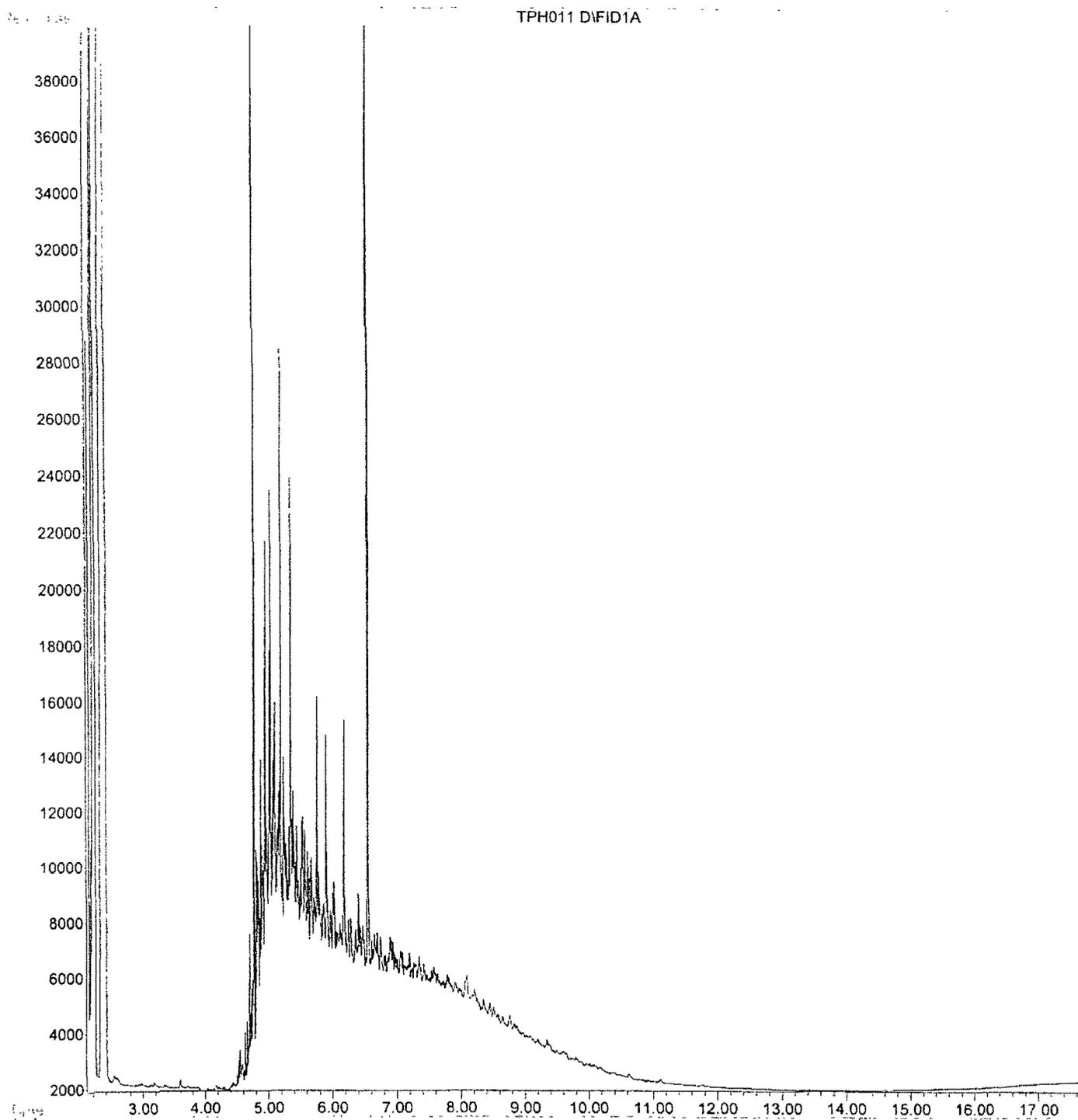
File : C:\HPCHEM\1\DATA\101909\TPH010.D
Operator : BR/AS
Acquired : 19 Oct 2009 19:45 using AcqMethod 1005BB.M
Instrument : A108
Sample Name: 348344-002*20
Misc Info :
Vial Number. 9

SS-2

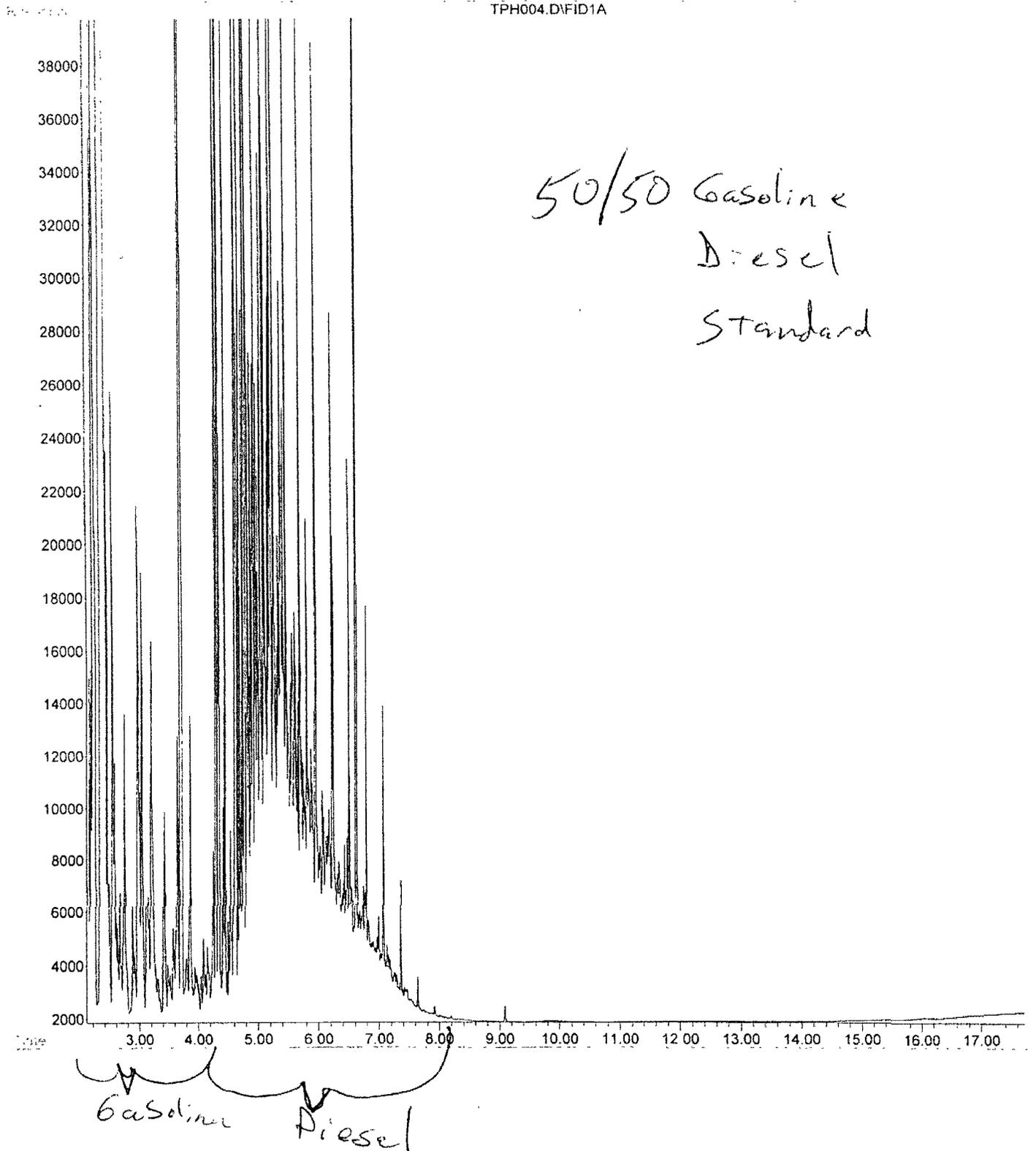


File : C:\HPCHEM\1\DATA\101909\TPH011.D
Operator : BR/AS
Acquired : 19 Oct 2009 20:14 using AcqMethod 1005BB.M
Instrument : A108
Sample Name: 348344-003
Misc Info :
Vial Number: 10

SS-3



File : C:\HPCHEM\1\DATA\101909\TPH004.D
Operator : BR/AS
Acquired : 19 Oct 2009 17:02 using AcqMethod 1005BB.M
Instrument : A108
Sample Name: CCV
Misc Info :
Vial Number: 3



Analytical Report 351729

for

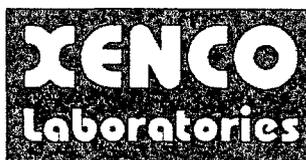
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

1009-019C

17-NOV-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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 (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

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



17-NOV-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **351729**
Burgundy EMU Lease
Project Address: Lea County, NM

Cindy Crain:

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 351729. 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. 351729 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 351729



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Nov-09-09 12:30	0 - 6 In	351729-001
SS-2	S	Nov-09-09 12:33	0 - 6 In	351729-002
SS-3	S	Nov-09-09 12:36	0 - 6 In	351729-003
SS-4	S	Nov-09-09 12:39	0 - 6 In	351729-004
SS-5	S	Nov-09-09 12:42	0 - 6 In	351729-005
SS-6	S	Nov-09-09 12:45	0 - 6 In	351729-006
SS-7	S	Nov-09-09 12:48	0 - 6 In	351729-007
SS-8	S	Nov-09-09 12:51	0 - 6 In	351729-008
SS-9	S	Nov-09-09 12:54	0 - 6 In	351729-009
SS-10	S	Nov-09-09 13:00	0 - 6 In	351729-010



CASE NARRATIVE

Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID: 1009-019C

Work Order Number: 351729

Report Date: 17-NOV-09

Date Received: 11/10/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-781290 Inorganic Anions by EPA 300

None

Batch: LBA-781403 Percent Moisture

None

Batch: LBA-781515 TPH By SW8015 Mod

None

Batch: LBA-781674 TPH By SW8015 Mod

None

Batch: LBA-781905 BTEX by EPA 8021B

SW8021BM

Batch 781905, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 351729-005, -007, -008, -006, -010, -004, -009.

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

SW8021BM

Batch 781905, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene RPD was outside QC limits.

Samples affected are: 351729-005, -007, -008, -006, -010, -004, -009

Batch: LBA-781910 BTEX by EPA 8021B

None



Certificate of Analysis Summary 351729

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 1009-019C

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Tue Nov-10-09 04:23 pm

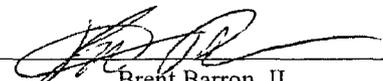
Report Date: 17-NOV-09

Project Manager: Brent Barron, II

Analysis Requested	<i>Lab Id:</i>	351729-001	351729-002	351729-003	351729-004	351729-005	351729-006
	<i>Field Id:</i>	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
	<i>Depth:</i>	0-6 In					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-09-09 12:30	Nov-09-09 12:33	Nov-09-09 12:36	Nov-09-09 12:39	Nov-09-09 12:42	Nov-09-09 12:45
Anions by E300	<i>Extracted:</i>	Nov-11-09 13:33					
	<i>Analyzed:</i>	Nov-11-09 13:33					
	<i>Units/RL:</i>	mg/kg RL					
Chloride		177 4.24	474 8.68	857 8.50	1320 19.0	567 8.59	1100 17.5
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-13-09 16:00	Nov-13-09 16:00	Nov-13-09 16:00	Nov-13-09 14:30	Nov-13-09 14:30	Nov-13-09 14:30
	<i>Analyzed:</i>	Nov-15-09 18:32	Nov-15-09 18:53	Nov-15-09 19:14	Nov-14-09 20:08	Nov-14-09 20:29	Nov-14-09 20:50
	<i>Units/RL:</i>	mg/kg RL					
Benzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0011	ND 0.0010	ND 0.0010
Toluene		ND 0.0020	ND 0.0021	0.0030 0.0020	ND 0.0023	ND 0.0020	ND 0.0021
Ethylbenzene		ND 0.0010	ND 0.0010	0.0023 0.0010	ND 0.0011	ND 0.0010	ND 0.0010
m,p-Xylenes		0.0029 0.0020	ND 0.0021	0.0137 0.0020	ND 0.0023	ND 0.0020	ND 0.0021
o-Xylene		0.0023 0.0010	ND 0.0010	0.0100 0.0010	ND 0.0011	0.0015 0.0010	ND 0.0010
Total Xylenes		0.0052 0.0010	ND 0.0010	0.0237 0.0010	ND 0.0011	0.0015 0.0010	ND 0.0010
Total BTEX		0.0052 0.0010	ND 0.0010	0.0290 0.0010	ND 0.0011	0.0015 0.0010	ND 0.0010
Percent Moisture	<i>Extracted:</i>	Nov-12-09 14:41					
	<i>Analyzed:</i>	Nov-12-09 14:41					
	<i>Units/RL:</i>	% RL					
Percent Moisture		1.01 1.00	3.23 1.00	1.14 1.00	11.5 1.00	2.20 1.00	4.20 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-11-09 12:45					
	<i>Analyzed:</i>	Nov-12-09 14:10	Nov-12-09 14:35	Nov-12-09 15:00	Nov-12-09 15:25	Nov-12-09 15:50	Nov-12-09 16:16
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		90.8 75.5	40.1 15.4	156 152	ND 16.9	276 153	ND 15.6
C12-C28 Diesel Range Hydrocarbons		1380 75.5	1030 15.4	1730 152	ND 16.9	4000 153	ND 15.6
C28-C35 Oil Range Hydrocarbons		178 75.5	114 15.4	158 152	ND 16.9	431 153	ND 15.6
Total TPH		1649 75.5	1184 15.4	2044 152	ND 16.9	4707 153	ND 15.6

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

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 351729

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 1009-019C

Contact: Cindy Crain

Project Location: Lea County, NM

Date Received in Lab: Tue Nov-10-09 04:23 pm

Report Date: 17-NOV-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	351729-007	351729-008	351729-009	351729-010		
	<i>Field Id:</i>	SS-7	SS-8	SS-9	SS-10		
	<i>Depth:</i>	0-6 In	0-6 In	0-6 In	0-6 In		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Nov-09-09 12:48	Nov-09-09 12:51	Nov-09-09 12:54	Nov-09-09 13:00		
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-11-09 13:33	Nov-11-09 13:33	Nov-11-09 13:33	Nov-11-09 13:33		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		2130 45.2	1700 21.6	715 4.21	9200 182		
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-13-09 14:30	Nov-13-09 14:30	Nov-13-09 14:30	Nov-13-09 14:30		
	<i>Analyzed:</i>	Nov-14-09 21:11	Nov-14-09 22:15	Nov-14-09 22:36	Nov-14-09 22:57		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.0011	ND 0.0010	ND 0.0010	ND 0.0011		
Toluene		ND 0.0021	ND 0.0020	ND 0.0020	ND 0.0022		
Ethylbenzene		ND 0.0011	ND 0.0010	ND 0.0010	ND 0.0011		
m,p-Xylenes		ND 0.0021	ND 0.0020	ND 0.0020	ND 0.0022		
o-Xylene		ND 0.0011	ND 0.0010	ND 0.0010	ND 0.0011		
Total Xylenes		ND 0.0011	ND 0.0010	ND 0.0010	ND 0.0011		
Total BTEX		ND 0.0011	ND 0.0010	ND 0.0010	ND 0.0011		
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-12-09 14:41	Nov-12-09 14:41	Nov-12-09 14:41	Nov-12-09 14:41		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		7.10 1.00	2.65 1.00	ND 1.00	7.67 1.00		
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-11-09 12:45	Nov-11-09 12:45	Nov-11-09 12:45	Nov-11-09 12:45		
	<i>Analyzed:</i>	Nov-12-09 16:42	Nov-13-09 11:38	Nov-13-09 09:52	Nov-13-09 10:18		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 16.1	ND 15.3	ND 15.0	ND 16.2		
C12-C28 Diesel Range Hydrocarbons		ND 16.1	538 15.3	ND 15.0	ND 16.2		
C28-C35 Oil Range Hydrocarbons		ND 16.1	81.3 15.3	ND 15.0	ND 16.2		
Total TPH		ND 16.1	619 15.3	ND 15.0	ND 16.2		

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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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: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781905

Sample: 543289-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/14/09 16:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 781905

Sample: 543289-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/14/09 16:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 781905

Sample: 543289-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/14/09 17:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 781905

Sample: 351729-004 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/14/09 20:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 781905

Sample: 351729-005 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/14/09 20:29

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	0.0280	0.0300	93	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: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781905

Sample: 351729-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 11/14/09 20:50	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 781905

Sample: 351729-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 11/14/09 21:11	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 781905

Sample: 351729-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 11/14/09 22:15	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 781905

Sample: 351729-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 11/14/09 22:36	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	0.0302	0.0300	101	80-120	

Lab Batch #: 781905

Sample: 351729-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	Date Analyzed: 11/14/09 22:57	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	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

A/B results are based on MDE and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781905

Sample: 351729-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/09 01:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 781905

Sample: 351729-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/15/09 02:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 781910

Sample: 543291-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/09 02:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 781910

Sample: 543291-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/09 03:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 781910

Sample: 543291-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/15/09 03:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDI and validated for QC purposes



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781910

Sample: 351729-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/15/09 18:32

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	0.0304	0.0300	101	80-120	

Lab Batch #: 781910

Sample: 351729-002 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/15/09 18:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 781910

Sample: 351729-003 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/15/09 19:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0254	0.0300	85	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 781910

Sample: 351716-001 D / MD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/15/09 19:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 781515

Sample: 543098-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/12/09 07:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	99.9	126	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

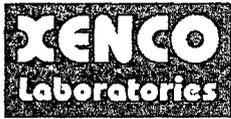
* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781515

Sample: 543098-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/12/09 07:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.5	130	70-135	
o-Terphenyl	58.1	49.8	117	70-135	

Lab Batch #: 781515

Sample: 543098-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 11/12/09 08:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	99.8	92	70-135	
o-Terphenyl	58.2	49.9	117	70-135	

Lab Batch #: 781515

Sample: 351729-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/12/09 14:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.6	99.7	90	70-135	
o-Terphenyl	56.5	49.9	113	70-135	

Lab Batch #: 781515

Sample: 351729-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/12/09 14:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	99.5	96	70-135	
o-Terphenyl	55.2	49.8	111	70-135	

Lab Batch #: 781515

Sample: 351729-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/12/09 15:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	99.9	97	70-135	
o-Terphenyl	58.4	50.0	117	70-135	

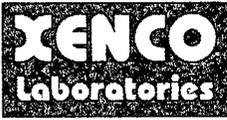
* Surrogate outside of Laboratory QC limits

** 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: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781515

Sample: 351729-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 15:25		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		96.4	100	96	70-135	
o-Terphenyl		61.3	50.0	123	70-135	

Lab Batch #: 781515

Sample: 351729-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 15:50		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		104	99.6	104	70-135	
o-Terphenyl		59.0	49.8	118	70-135	

Lab Batch #: 781515

Sample: 351729-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 16:16		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		93.5	99.5	94	70-135	
o-Terphenyl		56.5	49.8	113	70-135	

Lab Batch #: 781515

Sample: 351729-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 16:42		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		93.6	100	94	70-135	
o-Terphenyl		57.2	50.0	114	70-135	

Lab Batch #: 781515

Sample: 351716-009 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 17:33		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		130	99.5	131	70-135	
o-Terphenyl		55.1	49.8	111	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: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781515

Sample: 351716-009 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/12/09 17:59	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		114	99.8	114	70-135	
o-Terphenyl		58.8	49.9	118	70-135	

Lab Batch #: 781515

Sample: 351729-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 11/13/09 11:38	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		88.5	99.6	89	70-135	
o-Terphenyl		53.3	49.8	107	70-135	

Lab Batch #: 781674

Sample: 543182-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 11/13/09 08:09	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		91.8	100	92	70-135	
o-Terphenyl		57.9	50.0	116	70-135	

Lab Batch #: 781674

Sample: 543182-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 11/13/09 08:33	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		112	99.5	113	70-135	
o-Terphenyl		58.5	49.8	117	70-135	

Lab Batch #: 781674

Sample: 543182-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 11/13/09 09:00	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		124	100	124	70-135	
o-Terphenyl		55.0	50.0	110	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: Burgundy EMU Lease

Work Orders : 351729,

Project ID: 1009-019C

Lab Batch #: 781674

Sample: 351729-009 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/13/09 09:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.9	100	77	70-135	
o-Terphenyl	43.1	50.0	86	70-135	

Lab Batch #: 781674

Sample: 351729-010 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/13/09 10:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.8	91	70-135	
o-Terphenyl	55.6	49.9	111	70-135	

Lab Batch #: 781674

Sample: 351729-010 S / MS

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/13/09 12:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	58.3	50.0	117	70-135	

Lab Batch #: 781674

Sample: 351729-010 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/13/09 12:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	99.5	125	70-135	
o-Terphenyl	54.4	49.8	109	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 351729

Project ID:

1009-019C

Lab Batch #: 781290

Sample: 781290-1-BKS

Matrix: Solid

Date Analyzed: 11/11/2009

Date Prepared: 11/11/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.6	106	75-125	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 351729

Project ID: 1009-019C

Analyst: ASA

Date Prepared: 11/13/2009

Date Analyzed: 11/14/2009

Lab Batch ID: 781905

Sample: 543289-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	ND	0.1000	0.0889	89	0.1	0.0873	87	2	70-130	35	
Toluene	ND	0.1000	0.0885	89	0.1	0.0867	87	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0869	87	0.1	0.0856	86	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.1873	94	0.2	0.1845	92	2	70-135	35	
o-Xylene	ND	0.1000	0.0915	92	0.1	0.0920	92	1	71-133	35	

Analyst: ASA

Date Prepared: 11/13/2009

Date Analyzed: 11/15/2009

Lab Batch ID: 781910

Sample: 543291-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	ND	0.1000	0.0900	90	0.1	0.0893	89	1	70-130	35	
Toluene	ND	0.1000	0.0889	89	0.1	0.0882	88	1	70-130	35	
Ethylbenzene	ND	0.1000	0.0875	88	0.1	0.0869	87	1	71-129	35	
m,p-Xylenes	ND	0.2000	0.1883	94	0.2	0.1859	93	1	70-135	35	
o-Xylene	ND	0.1000	0.0938	94	0.1	0.0930	93	1	71-133	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]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 351729

Project ID: 1009-019C

Analyst: BEV

Date Prepared: 11/11/2009

Date Analyzed: 11/12/2009

Lab Batch ID: 781515

Sample: 543098-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	999	878	88	995	928	93	6	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	999	747	75	995	828	83	10	70-135	35	

Analyst: BEV

Date Prepared: 11/11/2009

Date Analyzed: 11/13/2009

Lab Batch ID: 781674

Sample: 543182-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	995	925	93	1000	880	88	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	746	75	1000	793	79	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] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 351729

Lab Batch #: 781290

Date Analyzed: 11/11/2009

QC- Sample ID: 351720-001 S

Reporting Units: mg/kg

Date Prepared: 11/11/2009

Batch #: 1

Project ID: 1009-019C

Analyst: LATCOR

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	2120	1300	3700	122	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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 351729

Project ID: 1009-019C

Lab Batch ID: 781905

QC- Sample ID: 351729-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/15/2009

Date Prepared: 11/13/2009

Analyst: ASA

Reporting Units: mg/kg

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
Benzene	ND	0.1130	0.0224	20	0.1130	0.0636	56	96	70-130	35	XF
Toluene	ND	0.1130	0.0132	12	0.1130	0.0386	34	98	70-130	35	XF
Ethylbenzene	ND	0.1130	0.0166	15	0.1130	0.0545	48	107	71-129	35	XF
m,p-Xylenes	ND	0.2260	0.0024	1	0.2260	0.0041	2	52	70-135	35	XF
o-Xylene	ND	0.1130	0.0129	11	0.1130	0.0435	38	109	71-133	35	XF

Lab Batch ID: 781515

QC- Sample ID: 351716-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/12/2009

Date Prepared: 11/11/2009

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	1070	971	91	1080	1000	93	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1070	815	76	1080	902	84	10	70-135	35	

Lab Batch ID: 781674

QC- Sample ID: 351729-010 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/13/2009

Date Prepared: 11/11/2009

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	1080	950	88	1080	962	89	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1080	888	82	1080	938	87	5	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 351729

Lab Batch #: 781290

Date Analyzed: 11/11/2009

QC- Sample ID: 351720-001 D

Reporting Units: mg/kg

Date Prepared: 11/11/2009

Batch #: 1

Project ID: 1009-019C

Analyst: LATCOR

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	2120	2110	0	20	

Lab Batch #: 781910

Date Analyzed: 11/15/2009

QC- Sample ID: 351716-001 D

Reporting Units: mg/kg

Date Prepared: 11/13/2009

Batch #: 1

Analyst: ASA

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
BTEX by EPA 8021B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Benzene	ND	ND	NC	35	
Toluene	ND	ND	NC	35	
Ethylbenzene	ND	ND	NC	35	
m,p-Xylenes	ND	ND	NC	35	
o-Xylene	ND	ND	NC	35	
a,a,a-Trifluorotoluene	0.030	0.031	3	35	

Lab Batch #: 781403

Date Analyzed: 11/12/2009

QC- Sample ID: 351716-016 D

Reporting Units: %

Date Prepared: 11/12/2009

Batch #: 1

Analyst: BEV

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	9.47	8.39	12	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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Doctillo Env.
 Date/ Time: 11-10-09 16:23
 Lab ID #: 351729
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	<u>Yes</u>	No	2.1 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	<u>ID written on Cont./Lid</u>	
#9 Container label(s) legible and intact?	Yes	No	<u>Not Applicable</u>	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 353394

for

Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

1009-019C

30-NOV-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

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



30-NOV-09

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **353394**
Burgundy EMU Lease
Project Address: Lea County, New Mexico

Cindy Crain:

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 353394. 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. 353394 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 353394



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Nov-23-09 13:30	7 - 7 ft	353394-001
SS-2	S	Nov-23-09 13:34	7 - 7 ft	353394-002
SS-3	S	Nov-23-09 13:37	7 - 7 ft	353394-003
SS-4	S	Nov-23-09 13:40	7 - 7 ft	353394-004
SS-5	S	Nov-23-09 13:45	7 - 7 ft	353394-005
SS-6	S	Nov-23-09 13:48	7 - 7 ft	353394-006
SS-7	S	Nov-23-09 13:52	4 - 4 ft	353394-007
SS-8	S	Nov-23-09 13:56		353394-008
SS-10 (Comp)	S	Nov-23-09 14:00		353394-009

CASE NARRATIVE



Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID: 1009-019C

Work Order Number: 353394

Report Date: 30-NOV-09

Date Received: 11/24/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-783197 Inorganic Anions by EPA 300

None

Batch: LBA-783206 Percent Moisture

None

Batch: LBA-783209 Percent Moisture

None

Batch: LBA-783625 TPH By SW8015 Mod

SW8015MOD_NM

Batch 783625, 1-Chlorooctane, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 353394-008.



Certificate of Analysis Summary 353394

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 1009-019C

Contact: Cindy Cram

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Nov-24-09 02:40 pm

Report Date: 30-NOV-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	353394-001	353394-002	353394-003	353394-004	353394-005	353394-006
	<i>Field Id:</i>	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
	<i>Depth:</i>	7-7 ft					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Nov-23-09 13:30	Nov-23-09 13:34	Nov-23-09 13:37	Nov-23-09 13:40	Nov-23-09 13:45	Nov-23-09 13:48
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>		Nov-24-09 20:22				
	<i>Units/RL:</i>		mg/kg RL				
Chloride			781 8.62	196 8.64	2100 25.5	1790 21.8	688 9.31
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-24-09 17:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		2.02 1.00	2.54 1.00	2.83 1.00	17.5 1.00	3.49 1.00	9.76 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Nov-24-09 15:45	Nov-24-09 15:45	Nov-24-09 15:45		Nov-24-09 15:45	
	<i>Analyzed:</i>	Nov-26-09 10:05	Nov-26-09 10:31	Nov-26-09 10:56		Nov-26-09 11:21	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		36.4 15.3	ND 15.4	ND 15.4		ND 15.5	
C12-C28 Diesel Range Hydrocarbons		1070 15.3	76 3 15.4	339 15.4		20 3 15.5	
C28-C35 Oil Range Hydrocarbons		83.9 15.3	152 15.4	26.5 15.4		ND 15.5	
Total TPH		1190 15.3	228 15.4	366 15.4		20.3 15.5	

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. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 353394

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease



Project Id: 1009-019C

Contact: Cindy Crain

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Nov-24-09 02:40 pm

Report Date: 30-NOV-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	353394-007	353394-008	353394-009			
	<i>Field Id:</i>	SS-7	SS-8	SS-10 (Comp)			
	<i>Depth:</i>	4-4 ft					
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Nov-23-09 13:52	Nov-23-09 13:56	Nov-23-09 14:00			
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-24-09 20:22	Nov-24-09 20:22	Nov-24-09 20:22			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1980 23.2	417 8.50	15700 173			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-24-09 17:00	Nov-24-09 17:00	Nov-24-09 17:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		9.51 1.00	1.13 1.00	2.98 1.00			
TPH By SW8015 Mod	<i>Extracted:</i>		Nov-24-09 15:45				
	<i>Analyzed:</i>		Nov-26-09 11:46				
	<i>Units/RL:</i>		mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons			ND 15.2				
C12-C28 Diesel Range Hydrocarbons			305 15.2				
C28-C35 Oil Range Hydrocarbons			25.1 15.2				
Total TPH			330 15.2				

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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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: Burgundy EMU Lease

Work Orders : 353394,

Project ID: 1009-019C

Lab Batch #: 783625

Sample: 544355-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/26/09 04:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	99.8	125	70-135	
o-Terphenyl	49.8	49.9	100	70-135	

Lab Batch #: 783625

Sample: 544355-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/26/09 04:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	48.5	50.0	97	70-135	

Lab Batch #: 783625

Sample: 544355-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 11/26/09 05:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.5	99.8	87	70-135	
o-Terphenyl	53.0	49.9	106	70-135	

Lab Batch #: 783625

Sample: 353394-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 11/26/09 10:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.0	100	86	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 783625

Sample: 353394-002 / SMP

Batch: 1 **Matrix:** Soil

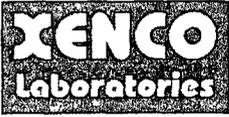
Units: mg/kg

Date Analyzed: 11/26/09 10:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.5	100	85	70-135	
o-Terphenyl	51.3	50.0	103	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: Burgundy EMU Lease

Work Orders : 353394,

Project ID: 1009-019C

Lab Batch #: 783625

Sample: 353394-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/26/09 10:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.4	99.6	85	70-135	
o-Terphenyl	50.4	49.8	101	70-135	

Lab Batch #: 783625

Sample: 353394-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/26/09 11:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.5	99.9	87	70-135	
o-Terphenyl	52.8	50.0	106	70-135	

Lab Batch #: 783625

Sample: 353394-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/26/09 11:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	4.42	99.9	4	70-135	*
o-Terphenyl	3.05	50.0	6	70-135	*

Lab Batch #: 783625

Sample: 353324-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/26/09 12:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.6	123	70-135	
o-Terphenyl	52.2	49.8	105	70-135	

Lab Batch #: 783625

Sample: 353324-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 11/26/09 12:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.6	118	70-135	
o-Terphenyl	51.9	49.8	104	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 353394

Project ID:

1009-019C

Lab Batch #: 783197

Sample: 783197-1-BKS

Matrix: Solid

Date Analyzed: 11/24/2009

Date Prepared: 11/24/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	10.5	105	75-125	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 353394

Project ID: 1009-019C

Analyst: BEV

Date Prepared: 11/24/2009

Date Analyzed: 11/26/2009

Lab Batch ID: 783625

Sample: 544355-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	998	928	93	1000	935	94	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	738	74	1000	783	78	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] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 353394

Lab Batch #: 783197

Date Analyzed: 11/24/2009

Date Prepared: 11/24/2009

Project ID: 1009-019C

Analyst: LATCOR

QC- Sample ID: 353317-001 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	16700	13800	30700	101	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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 353394

Project ID: 1009-019C

Lab Batch ID: 783625

QC-Sample ID: 353324-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 11/26/2009

Date Prepared: 11/24/2009

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	1420	1330	94	1420	1300	92	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1420	1300	92	1420	1240	87	5	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 353394

Lab Batch #: 783197

Project ID: 1009-019C

Date Analyzed: 11/24/2009

Date Prepared: 11/24/2009

Analyst: LATCOR

QC- Sample ID: 353317-001 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	16700	16600	1	20	

Lab Batch #: 783206

Date Analyzed: 11/24/2009

Date Prepared: 11/24/2009

Analyst: WRU

QC- Sample ID: 353324-001 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	6.95	7.64	9	20	

Lab Batch #: 783209

Date Analyzed: 11/24/2009

Date Prepared: 11/24/2009

Analyst: WRU

QC- Sample ID: 353394-007 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	9.51	9.85	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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 11.24.09 14:40
 Lab ID #: 353394
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	4.0 °C	
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>	
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>	
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>ID written on Cont./ Lid</u>	
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>	
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>	
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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

Analytical Report 356011

for

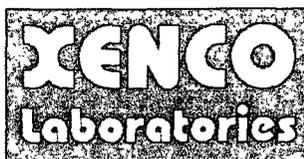
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

1009-019C

05-JAN-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

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



05-JAN-10

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **356011**
Burgundy EMU Lease
Project Address: Lea County, New Mexico

Cindy Crain:

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 356011. 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. 356011 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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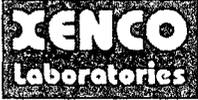


Sample Cross Reference 356011



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Dec-16-09 15:20	7 - 7 ft	356011-001
SS-2	S	Dec-16-09 15:23	7 - 7 ft	356011-002
SS-3	S	Dec-16-09 15:26	7 - 7 ft	356011-003
SS-4	S	Dec-16-09 15:30	7 - 7 ft	356011-004
SS-5	S	Dec-16-09 15:33	7 - 7 ft	356011-005
SS-6	S	Dec-16-09 15:35	7 - 7 ft	356011-006
SS-7	S	Dec-16-09 15:38	4 - 4 ft	356011-007
SS-10 (Comp)	S	Dec-16-09 15:45		356011-008



CASE NARRATIVE

Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID: 1009-019C

Report Date: 05-JAN-10

Work Order Number: 356011

Date Received: 12/17/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786262 Percent Moisture

AD2216A

Batch 786262, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 356011-001, -002, -007, -003, -004, -006, -005, -008.

Batch: LBA-786494 TPH By SW8015 Mod

None

Batch: LBA-786498 Anions by E300

None



Certificate of Analysis Summary 356011

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

Project Id: 1009-019C

Contact: Cindy Crain

Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-17-09 02:45 pm

Report Date: 05-JAN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	356011-001	356011-002	356011-003	356011-004	356011-005	356011-006
	<i>Field Id:</i>	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
	<i>Depth:</i>	7-7 ft					
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-16-09 15:20	Dec-16-09 15:23	Dec-16-09 15:26	Dec-16-09 15:30	Dec-16-09 15:33	Dec-16-09 15:35
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>		Dec-18-09 13:07		Dec-18-09 13:07	Dec-18-09 13:07	Dec-18-09 13:07
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL	mg/kg RL	mg/kg RL
Chloride			656 9.57		271 11.4	270 4.37	510 56.1
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Dec-17-09 17:00					
	<i>Units/RL:</i>	% RL					
Percent Moisture		16.3 1.00	12.3 1.00	17.3 1.00	26.5 1.00	3.87 1.00	25.1 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Dec-17-09 15:45	Dec-17-09 15:45	Dec-17-09 15:45			
	<i>Analyzed:</i>	Dec-19-09 09:10	Dec-19-09 09:36	Dec-19-09 10:04			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		32.5 17.9	ND 17.1	ND 18.1			
C12-C28 Diesel Range Hydrocarbons		229 17.9	26.4 17.1	144 18.1			
C28-C35 Oil Range Hydrocarbons		23.9 17.9	ND 17.1	21.4 18.1			
Total TPH		285 17.9	26.4 17.1	165 18.1			

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

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 356011

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

Project Id: 1009-019C

Contact: Cindy Crain

Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-17-09 02:45 pm

Report Date: 05-JAN-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	356011-007	356011-008				
	Field Id:	SS-7	SS-10 (Comp)				
	Depth:	4-4 ft					
	Matrix:	SOIL	SOIL				
	Sampled:	Dec-16-09 15:38	Dec-16-09 15:45				
Anions by E300	Extracted:						
	Analyzed:	Dec-18-09 13:07	Dec-18-09 13:07				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		32.1 5.57	10000 226				
Percent Moisture	Extracted:						
	Analyzed:	Dec-17-09 17:00	Dec-17-09 17:00				
	Units/RL:	% RL	% RL				
Percent Moisture		24.5 1.00	25.8 1.00				

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

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Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria

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

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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: Burgundy EMU Lease

Work Orders : 356011,

Project ID: 1009-019C

Lab Batch #: 786494

Sample: 545951-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 12/19/09 01:07		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		89.3	99.8	89	70-135	
o-Terphenyl		40.4	49.9	81	70-135	

Lab Batch #: 786494

Sample: 545951-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 12/19/09 01:34		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		94.4	99.8	95	70-135	
o-Terphenyl		41.8	49.9	84	70-135	

Lab Batch #: 786494

Sample: 545951-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg		Date Analyzed: 12/19/09 02:00		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		71.3	100	71	70-135	
o-Terphenyl		42.0	50.0	84	70-135	

Lab Batch #: 786494

Sample: 356011-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 12/19/09 09:10		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		76.9	100	77	70-135	
o-Terphenyl		45.6	50.0	91	70-135	

Lab Batch #: 786494

Sample: 356011-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg		Date Analyzed: 12/19/09 09:36		SURROGATE RECOVERY STUDY		
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		78.5	99.9	79	70-135	
o-Terphenyl		46.2	50.0	92	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: Burgundy EMU Lease

Work Orders : 356011,

Project ID: 1009-019C

Lab Batch #: 786494

Sample: 356011-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/19/09 10:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.8	100	74	70-135	
o-Terphenyl	43.8	50.0	88	70-135	

Lab Batch #: 786494

Sample: 355920-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/19/09 10:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.2	99.6	87	70-135	
o-Terphenyl	39.8	49.8	80	70-135	

Lab Batch #: 786494

Sample: 355920-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 12/19/09 10:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.8	99.8	91	70-135	
o-Terphenyl	42.4	49.9	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.



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 356011

Project ID:

1009-019C

Lab Batch #: 786498

Sample: 786498-1-BKS

Matrix: Solid

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	11.0	11.1	101	75-125	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 356011

Project ID: 1009-019C

Analyst: BEV

Date Prepared: 12/17/2009

Date Analyzed: 12/19/2009

Lab Batch ID: 786494

Sample: 545951-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	998	893	89	998	961	96	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	841	84	998	787	79	7	70-135	35	

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

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

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 356011

Lab Batch #: 786498

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Project ID: 1009-019C

Analyst: LATCOR

QC- Sample ID: 356011-002 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	656	228	844	82	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

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 356011

Project ID: 1009-019C

Lab Batch ID: 786494

QC- Sample ID: 355920-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 12/19/2009

Date Prepared: 12/17/2009

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	1080	940	87	1080	962	89	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	43.8	1080	910	80	1080	808	71	12	70-135	35	

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

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

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



Sample Duplicate Recovery

Project Name: Burgundy EMU Lease

Work Order #: 356011

Lab Batch #: 786498

Project ID: 1009-019C

Date Analyzed: 12/18/2009

Date Prepared: 12/18/2009

Analyst: LATCOR

QC- Sample ID: 356011-002 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	656	652	1	20	

Lab Batch #: 786262

Date Analyzed: 12/17/2009

Date Prepared: 12/17/2009

Analyst: WRU

QC- Sample ID: 355915-007 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	1.43	1.99	33	20	F

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

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

BRL - Below Reporting Limit

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.
 Date/ Time: 12.17.09 14:45
 Lab ID #: 356011
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	3.1 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	(ID written on Cont./ Lid)	
#9 Container label(s) legible and intact?	Yes	No	(Not Applicable)	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	(Not Applicable)	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

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

Analytical Report 359357

for

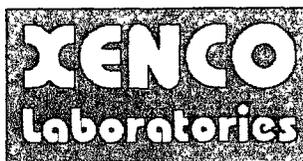
Ocotillo Environmental, LLC

Project Manager: Cindy Crain

Burgundy EMU Lease

1009-019 C

22-JAN-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

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



22-JAN-10

Project Manager: **Cindy Crain**
Ocotillo Environmental, LLC
P.O. Box 1816
Hobbs, NM 88241

Reference: XENCO Report No: **359357**
Burgundy EMU Lease
Project Address: Lea Co., NM

Cindy Crain:

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 359357. 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. 359357 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 359357



Ocotillo Environmental, LLC, Hobbs, NM
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-1	S	Jan-19-10 09:05		359357-001
SS-2	S	Jan-19-10 09:08		359357-002
SS-3	S	Jan-19-10 09:12		359357-003
SS-4	S	Jan-19-10 09:15		359357-004
SS-5	S	Jan-19-10 09:18		359357-005
SS-6	S	Jan-19-10 09:23		359357-006
SS-8	S	Jan-19-10 09:28		359357-007
SS-10	S	Jan-19-10 09:32		359357-008

CASE NARRATIVE



Client Name: Ocotillo Environmental, LLC

Project Name: Burgundy EMU Lease

Project ID: 1009-019 C

Work Order Number: 359357

Report Date: 22-JAN-10

Date Received: 01/20/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-790374 Percent Moisture

None

Batch: LBA-790386 Inorganic Anions by EPA 300

None

Batch: LBA-790498 TPH By SW8015 Mod

None



Certificate of Analysis Summary 359357

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

Project Id: 1009-019 C

Contact: Cindy Crain

Project Location: Lea Co., NM

Date Received in Lab: Wed Jan-20-10 04:50 pm

Report Date: 22-JAN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	359357-001	359357-002	359357-003	359357-004	359357-005	359357-006
	<i>Field Id:</i>	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-19-10 09:05	Jan-19-10 09:08	Jan-19-10 09:12	Jan-19-10 09:15	Jan-19-10 09:18	Jan-19-10 09:23
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>		Jan-21-10 21:23		Jan-21-10 21:23	Jan-21-10 21:23	Jan-21-10 21:23
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL	mg/kg RL	mg/kg RL
Chloride			9.95 4.25		39.2 5.20	55.6 4.22	87.8 4.25
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jan-21-10 12:25					
	<i>Units/RL:</i>	% RL					
Percent Moisture		18.4 1.00	1.11 1.00	17.8 1.00	19.2 1.00	ND 1.00	1.13 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-21-10 11:30		Jan-21-10 11:30			
	<i>Analyzed:</i>	Jan-22-10 14:46		Jan-22-10 15:12			
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		ND 18.4		ND 18.2			
C12-C28 Diesel Range Hydrocarbons		ND 18.4		ND 18.2			
C28-C35 Oil Range Hydrocarbons		ND 18.4		ND 18.2			
Total TPH		ND 18.4		ND 18.2			

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

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 Brent Barron, II
 Odessa Laboratory Manager



Certificate of Analysis Summary 359357

Ocotillo Environmental, LLC, Hobbs, NM

Project Name: Burgundy EMU Lease

Project Id: 1009-019 C

Contact: Cindy Crain

Project Location: Lea Co., NM

Date Received in Lab: Wed Jan-20-10 04:50 pm

Report Date: 22-JAN-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	359357-007	359357-008			
	<i>Field Id:</i>	SS-8	SS-10			
	<i>Depth:</i>					
	<i>Matrix:</i>	SOIL	SOIL			
	<i>Sampled:</i>	Jan-19-10 09:28	Jan-19-10 09:32			
Anions by E300	<i>Extracted:</i>					
	<i>Analyzed:</i>	Jan-21-10 21:23	Jan-21-10 21:23			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Chloride		25.1 4.21	3290 43.0			
Percent Moisture	<i>Extracted:</i>					
	<i>Analyzed:</i>	Jan-21-10 12:25	Jan-21-10 12:25			
	<i>Units/RL:</i>	% RL	% RL			
Percent Moisture		ND 1.00	2.40 1.00			
TPH By SW8015 Mod	<i>Extracted:</i>	Jan-21-10 11:30				
	<i>Analyzed:</i>	Jan-22-10 15:39				
	<i>Units/RL:</i>	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.0				
C12-C28 Diesel Range Hydrocarbons		42.1 15.0				
C28-C35 Oil Range Hydrocarbons		ND 15.0				
Total TPH		42.1 15.0				

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 Brent Barron, II
 Odessa Laboratory Manager



Flagging Criteria

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

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



Form 2 - Surrogate Recoveries

Project Name: Burgundy EMU Lease

Work Orders : 359357,

Project ID: 1009-019 C

Lab Batch #: 790498

Sample: 548278-1-BKS / BKS

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	50.8	50.2	101	70-135	

Lab Batch #: 790498

Sample: 548278-1-BSD / BSD

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	47.4	49.9	95	70-135	

Lab Batch #: 790498

Sample: 548278-1-BLK / BLK

Batch: 1 Matrix: Solid

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	91.1	99.9	91	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 790498

Sample: 359357-001 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	54.3	50.0	109	70-135	

Lab Batch #: 790498

Sample: 359357-003 / SMP

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	101	99.8	101	70-135	
o-Terphenyl	55.3	49.9	111	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: Burgundy EMU Lease

Work Orders : 359357,

Project ID: 1009-019 C

Lab Batch #: 790498

Sample: 359357-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 01/22/10 15:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.2	99.6	82	70-135	
o-Terphenyl	43.9	49.8	88	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 359357

Project ID:

1009-019 C

Lab Batch #: 790386

Sample: 790386-1-BKS

Matrix: Solid

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK/BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	9.36	94	75-125	

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

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 359357

Project ID: 1009-019 C

Analyst: BEV

Date Prepared: 01/21/2010

Date Analyzed: 01/22/2010

Lab Batch ID: 790498

Sample: 548278-1-BKS

Batch #: 1

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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	993	99	998	908	91	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	786	79	998	881	88	11	70-135	35	

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

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

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 359357

Lab Batch #: 790386

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Project ID: 1009-019 C

Analyst: LATCOR

QC- Sample ID: 359288-001 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	4740	4900	9690	101	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

BRL - Below Reporting Limit



Sample Duplicate Recovery

Project Name: Burgundy EMU Lease

Work Order #: 359357

Lab Batch #: 790386

Project ID: 1009-019 C

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: LATCOR

QC- Sample ID: 359288-001 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	4740	4790	1	20	

Lab Batch #: 790374

Date Analyzed: 01/21/2010

Date Prepared: 01/21/2010

Analyst: JLG

QC- Sample ID: 359350-001 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	9.74	9.51	2	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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Environmental
 Date/ Time: 1/20/10 16:50
 Lab ID #: 359357
 Initials: AS

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	36 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present)	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	(ID written on Cont./ Lid)	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 368406

for

Crain Environmental

Project Manager: Cindy Crain

Burgundy EMU Lease

0410-002

14-APR-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

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

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

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

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

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

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



14-APR-10

Project Manager: **Cindy Crain**
Crain Environmental
2925 E 17th St.
Odessa, TX 79761

Reference: XENCO Report No: **368406**
Burgundy EMU Lease
Project Address: Lea County, New Mexico

Cindy Crain:

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 368406. 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. 368406 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 368406



Crain Environmental, Odessa, TX
Burgundy EMU Lease

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS-10 (Comp)	S	Apr-06-10 17:37		368406-001

CASE NARRATIVE



Client Name: Crain Environmental
Project Name: Burgundy EMU Lease



Project ID: 0410-002
Work Order Number: 368406

Report Date: 14-APR-10
Date Received: 04/07/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

*Batch: LBA-801482 Inorganic Anions by EPA 300
E300MI*

Batch 801482, Chloride RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 368406-001.

Batch: LBA-802006 Percent Moisture

None



Certificate of Analysis Summary 368406

Crain Environmental, Odessa, TX

Project Name: Burgundy EMU Lease



Project Id: 0410-002

Contact: Cindy Crain

Project Location: Lea County, New Mexico

Date Received in Lab: Wed Apr-07-10 02:30 pm

Report Date: 14-APR-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	368406-001				
	Field Id:	SS-10 (Comp)				
	Depth:					
	Matrix:	SOIL				
Anions by E300	Sampled:	Apr-06-10 17:37				
	Extracted:					
	Analyzed:	Apr-07-10 15:00				
	Units/RL:	mg/kg RL				
Chloride		63.1 4.22				
Percent Moisture	Extracted:					
	Analyzed:	Apr-08-10 17:00				
	Units/RL:	% RL				
	Percent Moisture		ND 1.00			

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

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


Brent Barron, II
Odessa Laboratory Manager



Flagging Criteria



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

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

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 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

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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



Blank Spike Recovery



Project Name: Burgundy EMU Lease

Work Order #: 368406

Project ID:

0410-002

Lab Batch #: 801482

Sample: 801482-1-BKS

Matrix: Solid

Date Analyzed: 04/07/2010

Date Prepared: 04/07/2010

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	11.0	11.5	105	75-125	

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

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

BRL - Below Reporting Limit



Form 3 - MS Recoveries



Project Name: Burgundy EMU Lease

Work Order #: 368406

Lab Batch #: 801482

Date Analyzed: 04/07/2010

QC- Sample ID: 368091-011 S

Reporting Units: mg/kg

Date Prepared: 04/07/2010

Batch #: 1

Project ID: 0410-002

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	285	410	711	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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Burgundy EMU Lease

Work Order #: 368406

Lab Batch #: 801482

Project ID: 0410-002

Date Analyzed: 04/07/2010

Date Prepared: 04/07/2010

Analyst: LATCOR

QC- Sample ID: 368091-011 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	285	297	4	20	

Lab Batch #: 802006

Date Analyzed: 04/08/2010

Date Prepared: 04/08/2010

Analyst: LATCOR

QC- Sample ID: 368406-001 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	ND	ND	NC	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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Crain Env.
 Date/ Time: 4.7.10 14:30
 Lab ID #: 368106
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	23.1 °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	<u>ID written on Cont / Lid</u>
#9	Container label(s) legible and intact?	Yes	No	<u>Not Applicable</u>
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	Yes	No	<u>Not Applicable</u>

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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