

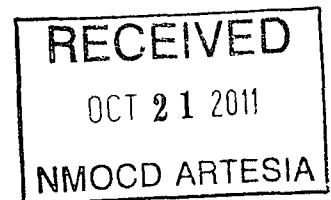


**REMEDIATION SUMMARY
AND SITE
CLOSURE REQUEST**

**DCP Midstream, L.P.
Loco Hills Gathering Release
Eddy County, New Mexico
UNIT LTRS "F" and "L", Section 3, Township 17 South, Range 29 East
Latitude 32.86394° North, Longitude 104.06673° West**

Prepared For:

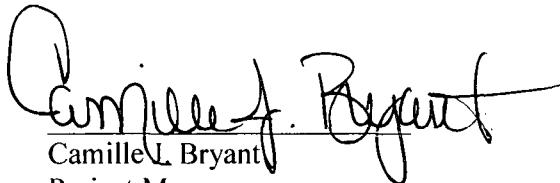
DCP MIDSTREAM, L.P.
10 Desta Drive
Suite 400 West
Midland, Texas 79705



Prepared By:

NOVA Safety & Environmental
2057 Commerce
Midland, Texas 79703

October 2011


Camille L. Bryant
Project Manager


Brittan K. Byerly, P.G.
President

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	NMOCD SITE CLASSIFICATION.....	1
3.0	SUMMARY OF SOIL REMEDIATION ACTIVITIES.....	2
4.0	QA/QC PROCEDURES	4
4.1	Soil Sampling	4
4.2	Decontamination of Equipment	4
4.3	Laboratory Protocol	4
5.0	SITE CLOSURE REQUEST.....	5
6.0	LIMITATIONS.....	5
7.0	DISTRIBUTION.....	6

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Details Schematic and Confirmation Soil Sample Locations Map

TABLES

Table 1 – Concentrations of BTEX, TPH and Chlorides in Soil

APPENDICES

Appendix A – Archaeological Survey

Appendix B – Laboratory Analytical Reports

Appendix C – Soil Disposal Manifests

Appendix D – Release Notification and Corrective Action (Form-C-141)

1.0 INTRODUCTION

Nova Safety & Environmental (NOVA), on behalf of DCP Midstream, L.P. (DCP), has prepared this Remediation Summary and Site Closure Request for the release site known as the Loco Hills Gathering. The legal description of the release site is Unit Letters “F” and “L”, Section 3, Township 17 South, Range 29 East, in Eddy County, New Mexico. The property affected by the release is owned by United States Department of the Interior Bureau of Land Management (BLM) and the State of New Mexico and is administered by the New Mexico State Land Office (ROE permit #2052). An Archaeological Survey was conducted by Boone Arch Services of New Mexico, LLC, located at 506 E. Chapman, Carlsbad, New Mexico. The survey indicated an existing archaeological site is located outside the release site boundary. Due to the site being located in close proximity to an archaeological site, a Boone Arch Services representative was present during excavation and backfilling activities to ensure no encroachment was made. A copy of the Archaeological Survey is provided as Appendix A. The site latitude is 32.86394° North, and the longitude is 104.06673° West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Details Schematic and Confirmation Soil Sample Locations Map. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On June 3, 2011, DCP discovered a crude oil release had occurred from an eight (8) inch DCP pipeline. The cause of the release was attributed to internal/external corrosion and was reported to the New Mexico Oil Conservation Division (NMOCD) on June 6, 2011. The release was also reported to the BLM and NMSLO. DCP submitted a Release Notification and Corrective Action (Form C-141) to the NMOCD Artesia District Office on June 8, 2011. The C-141 indicated approximately sixteen (16) barrels of crude oil was released and approximately eleven (11) barrels were recovered.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database did not identify the average depth to groundwater information for Section 3, Township 17 South, Range 29 East. A reference map utilized by the NMOCD indicated depth to groundwater at the release site should be encountered at approximately 100 feet below ground surface (bgs). The depth to groundwater at the Loco Hills Gathering Release Site results in a score of ten (10) points being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Loco Hills Gathering Release Site has a ranking score of ten (10). Based on this score, the soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene – 10 milligrams per kilogram (mg/Kg) aka parts per million (ppm)

- BTEX – 50 mg/Kg (ppm)
- TPH – 1,000 mg/Kg (ppm)

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On June 15, 2011, NOVA, at the request of DCP, commenced excavation activities at the site. Impacted soil was excavated from the release point and continued along the flow path for approximately five hundred (500) feet to the south southwest. Excavated soil was stockpiled on-site on a plastic liner to mitigate the leaching potential of contaminants. The final dimensions of the excavation were approximately five hundred thirty-nine (539) feet in length, ranging in width from approximately two (2) feet to approximately fifty-two (52) feet, and ranging in depth from approximately one (1) foot to approximately eight (8) feet bgs. Please reference Figure 2, for site details and soil sample locations.

On June 22, 2011, approximately forty (40) cubic yards of heavily impacted soil was transported to Controlled Recovery, Inc. (NMOCD permit # R9166) for disposal. Manifests documenting soil disposal are provided as Appendix C.

On June 22, 2011, seventeen (17) soil samples (South S/W-1 @ 1', South S/W-2 @ 4', Floor-1 @ 1', Floor-2 @ 2', East S/W-1 @ 1.5', West S/W-1 @ 1.5', Floor-3 @ 1', Floor-4 @ 1', Floor-5 @ 7', North S/W-1 @ 6', West S/W-2 @ 6', South S/W-3 @ 6', Floor-6 @ 2', West S/W-3 @ 1.5', East S/W-3 @ 1.5', and Floor-7 @ 1') were collected from the excavation. Please reference Figure 2 for sample locations. The soil samples were submitted to the laboratory for determination of concentrations of total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl-benzene, and xylene (BTEX) using EPA method SW8015M and SW 846-8021b, respectively. Laboratory analytical results indicated benzene concentrations ranged from less than the laboratory method detection limit (MDL) of 0.001 mg/Kg for soil samples Floor-1 @ 1', Floor-2 @ 2', East S/W-1 @ 1.5', West S/W-1 @ 1.5', Floor-3 @ 1', Floor-4 @ 1', Floor-5 @ 7', North S/W-1 @ 6', West S/W-2 @ 6', West S/W-3 @ 1.5', East S/W-3 @ 1.5', and Floor-7 @ 1' to 0.0119 mg/Kg for soil sample South S/W-3 @ 6'. BTEX concentrations ranged from less than the laboratory MDL of 0.0021 mg/Kg for soil samples West S/W-2 @ 6' and Floor-7 @ 1' to 1.67 mg/Kg for soil sample South S/W-2 @ 4'. TPH concentrations ranged from less than the appropriate laboratory MDL for soil samples North S/W-1 @ 6', West S/W-2 @ 6', South S/W-3 @ 6', and Floor-7 @ 1' to 584 mg/Kg for soil sample Floor-4 @ 1'. A review of the analytical results indicated benzene, BTEX and TPH concentrations were less than the NMOCD regulatory guidelines for all submitted soil samples. Table 1 summarizes the Concentrations of Benzene, BTEX and TPH in Soil. Laboratory analytical reports are provided as Appendix B.

On June 24, 2011 six (6) soil samples (North S/W-2 @ 3', North S/W-3 @ 8', West S/W-4 @ 8', East S/W-4 @ 8', South S/W-4 @ 6', and R.P. Floor @ 8') were collected from the excavation and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL for soil samples South S/W-4 @ 6' and R.P. Floor @ 8' to 0.0171 mg/Kg for soil sample North S/W-3 @ 8'. BTEX concentrations ranged from less than the laboratory MDL of 0.0021 mg/Kg for soil sample South S/W-4 @ 6' to 0.578 mg/Kg for soil sample West S/W-4 @ 8'. TPH concentrations ranged from 18.5 mg/Kg for soil sample R.P. Floor @ 8' to 1,160 mg/Kg for soil sample West S/W-4 @ 8'.

A review of analytical results indicated benzene and BTEX concentrations were less than NMOCD regulatory guidelines for all submitted soil samples. TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples with the exception of soil samples West S/W-4 @ 8' and East S/W-4 @ 8', which exhibited TPH concentrations of 1,160 mg/Kg and 1,090 mg/Kg, respectively. Please reference Figure 2 for soil sample locations.

On July 1, 2011, three (3) soil samples (SP-1, SP-2, and SP-3) were collected from the stockpiled soil and submitted to the laboratory for TPH analysis. Laboratory analytical results indicated TPH concentrations ranged from 1,750 mg/Kg for soil sample SP-1 to 1,860 mg/Kg for soil sample SP-2. Based on the laboratory analytical results the stockpiled soil required additional blending and mixing. Non-impacted soil excavated during remediation activities was utilized to blend with the stockpiled soil.

On July 5, 2011, additional excavation was conducted in the areas of soil samples East S/W-4A @ 8' and West S/W-4A @ 8'. The excavated soil was stockpiled and blended with the previously excavated soil.

On July 7, 2011, two (2) soil samples (East S/W-4A @ 8' and West S/W-4A @ 8') were collected from the excavation and submitted to the laboratory for analysis. Laboratory analytical results indicated benzene concentrations of less than the laboratory MDL of 0.001 mg/Kg for soil sample West S/W-4A @ 8' and 0.00136 mg/Kg for soil sample East S/W-4A @ 8'. Analytical results indicated BTEX concentrations of less than the laboratory MDL of 0.0021 mg/Kg for soil sample West S/W-4A @ 8' and 0.150 mg/Kg for soil sample East S/W-4A @ 8'. TPH concentrations were 198 mg/Kg for soil sample East S/W-4A @ 8' and 139 mg/Kg for soil sample West S/W-4A @ 8'. A review of laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than NMOCD regulatory guidelines for both soil samples (Table 1).

On July 7, 2011, the stockpiled soil was subdivided into seven (7) discreet stockpiles. One (1) composite soil sample was collected from each stockpile, resulting in seven (7) composite soil samples, identified as SP-1 through SP-7. Each sample represented approximately 250 cubic yards of remediated soil. The soil samples were submitted to the laboratory for TPH and BTEX analysis. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory MDL for all the submitted soil samples with the exception of soil sample SP-2A, which exhibited a benzene concentration of 0.00115 mg/Kg. BTEX concentrations ranged from 0.0621 mg/Kg for soil sample SP-7 to 0.201 mg/Kg for soil sample SP-5. TPH concentrations ranged from 326 mg/Kg for soil sample SP-7 to 1,590 mg/Kg for soil sample SP-1A. A review of laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than NMOCD regulatory guidelines for all the submitted soil samples with the exception of soil sample SP-1A, which exhibited a TPH concentration of 1,590 mg/Kg (Table 1).

On July 21, 2011, a NOVA representative met with an NMOCD Artesia District Office representative to present the results of the soil sampling event and request permission to backfill the excavation. The NMOCD representative requested DCP blend the stockpiled soil represented by soil sample SP-1A and resample the soil. Upon receipt of laboratory analytical results indicating the soil sample exhibited TPH concentrations less than NMOCD guidelines of 1,000 mg/Kg, the stockpiled soil could be utilized as backfill material.

On September 6, 2011, Nova resumed activities at the Loco Hill Gathering Release Site. Based on analytical results of the soil sample collected on July 7, 2011, the soil contained in the stockpile represented by soil sample SP-1A required additional blending and resampling. After additional mixing and blending activities were conducted on the stockpiled material represented by soil sample SP-1A, a composite soil sample SP-1B was collected from the remediated soil on September 7, 2011, and submitted to the laboratory for TPH analysis. Laboratory analytical results indicated a TPH concentration of 1,730 mg/Kg for soil sample SP-1B (Table 1).

The analytical results of the soil sample collected on September 7, 2011, indicated the soil contained in the stockpile represented by soil sample SP-1B required additional blending and resampling. After additional mixing and blending activities were conducted on the stockpiled material represented by soil sample SP-1B, a composite soil sample SP-1C was collected from the remediated soil on September 9, 2011, and submitted to the laboratory for TPH analysis. Laboratory analytical results indicated a TPH concentration of 49.2 mg/Kg for soil sample SP-1C (Table 1).

Based on laboratory analytical results and NMOCD approval, the excavation was backfilled and water compacted with the remediated stockpiled soil. On completion of backfilling activities the impacted area was contoured to fit the surrounding topography. On September 19, 2011, the site was reseeded with BLM #2 and BLM #3 seed mixture.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil Samples were delivered to Xenco Laboratories, Inc., of Odessa, Texas for BTEX and/or TPH analyses using the methods described below. Soil samples were analyzed for BTEX and/or TPH concentrations within fourteen (14) days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody (COC) form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Based on the analytical results of confirmation soil samples, NOVA recommends DCP provide the NMOCD a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant closure to the Loco Hills Gathering Release Site.

6.0 LIMITATIONS

NOVA Safety and Environmental has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

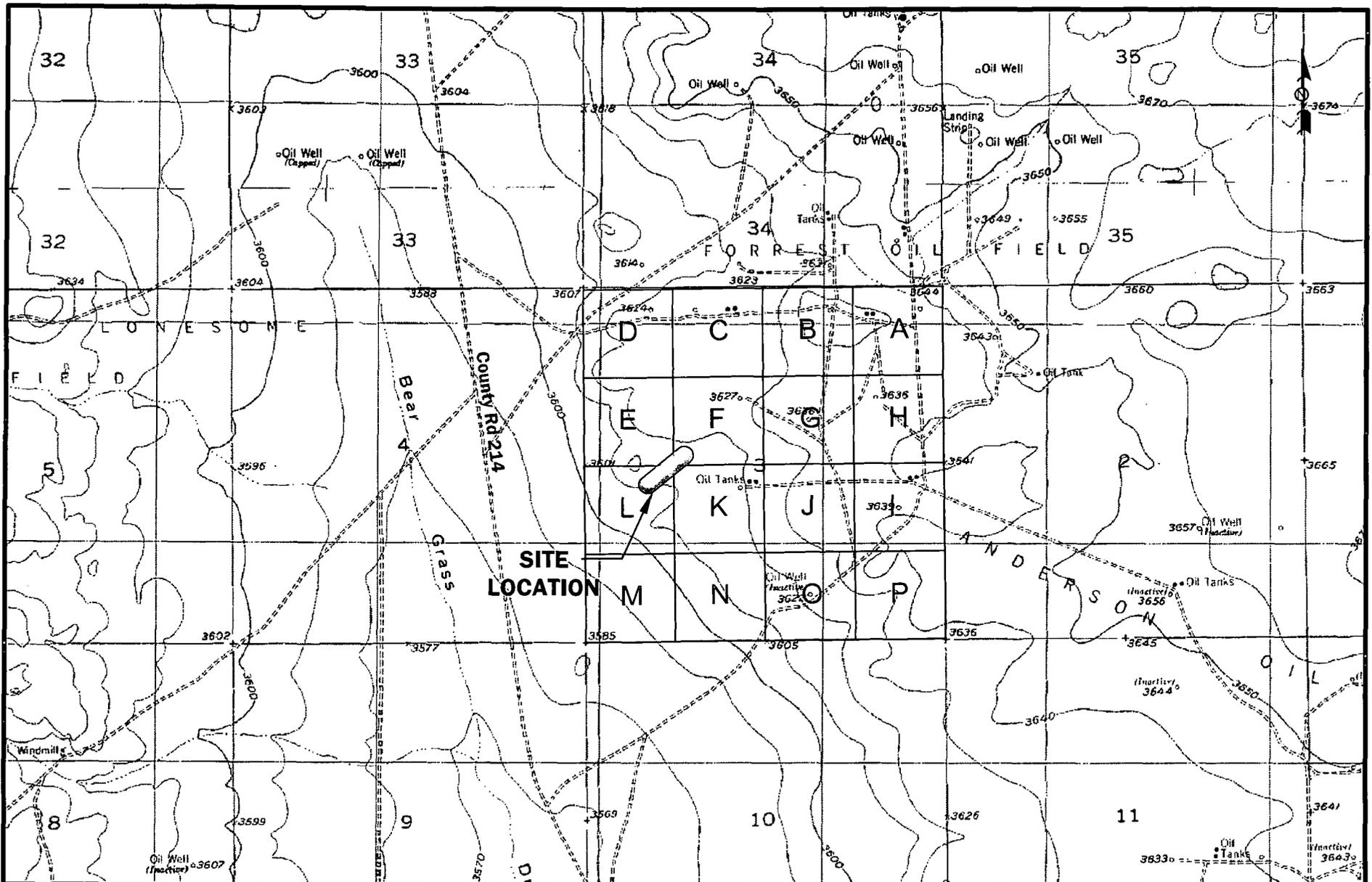
NOVA Safety and Environmental has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA Safety and Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. We have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

This report has been prepared for the benefit of DCP Midstream, L.P. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA Safety and Environmental and/or DCP Midstream, L.P.

7.0 DISTRIBUTION:

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
811 South 1st Street
Artesia, New Mexico 88210
- Copy 2-4: Jon Bebbington
DCP Midstream, L.P.
10 Desta Drive, Suite 400 West
Midland, Texas 79705
- Copy 5: Paul Evans
United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, New Mexico 88220
- Copy 6: Andrew Kraemer
New Mexico State Land Office
602 North Canal, Suite B
Carlsbad, New Mexico 88220
- Copy 7: Nova Safety & Environmental
2057 Commerce Street
Midland, Texas 79703

FIGURES



LEGEND:

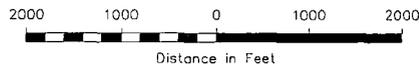


Figure 1
 Site Location Map
 Loco Hills
 DCP Midstream
 Eddy County, NM

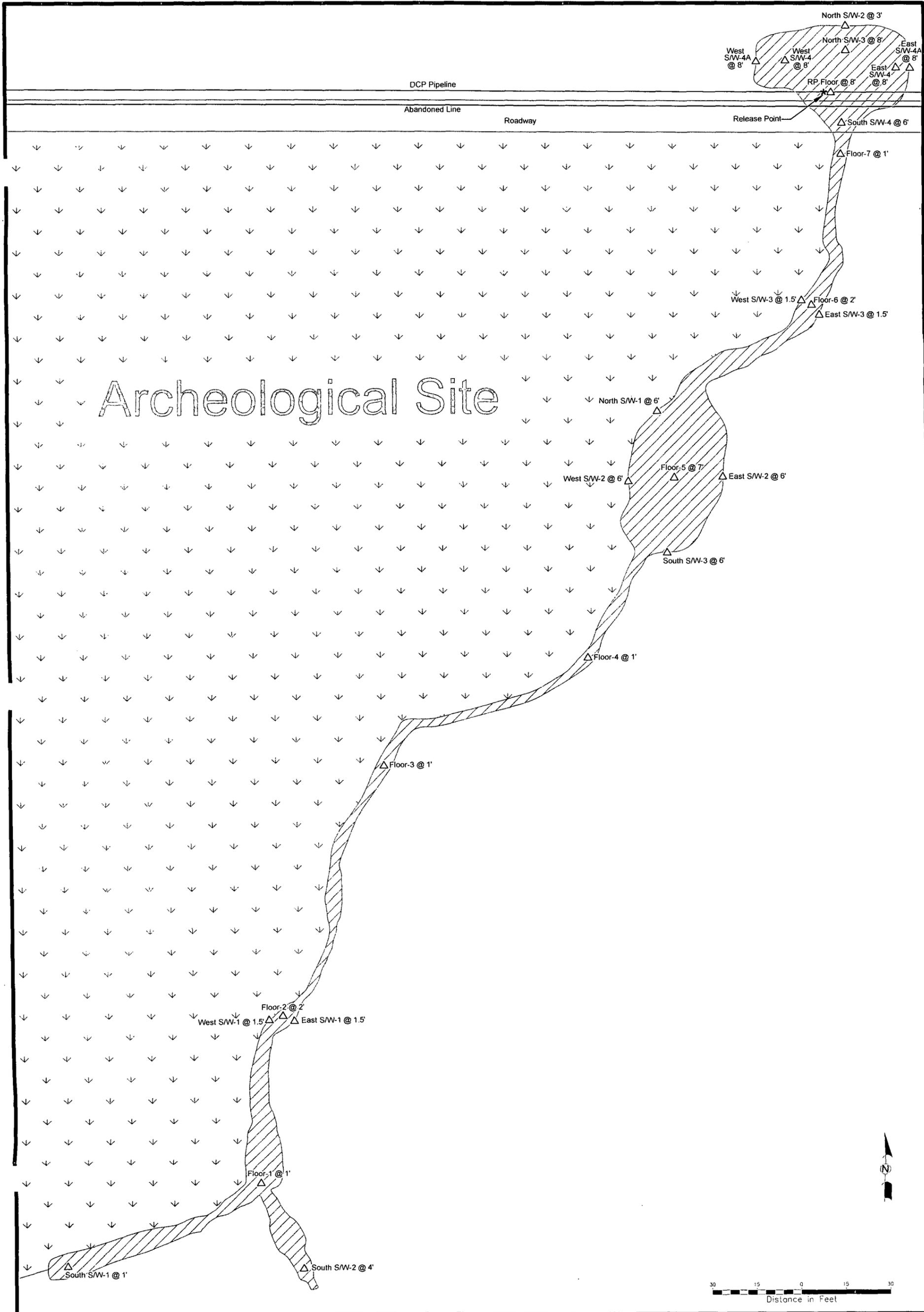


2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

www.novasafetyandenvironmental.com

June 7, 2011 | Scale: 1" = 2000' | CAD By: TA | Checked By: CJB

LATITUDE & LONGITUDE COORDINATES: N 32° 51' 50.14" W 104° 4' 0.23"



Archeological Site

LEGEND:

-  Soil Sample Location
-  Pipeline

Figure 2
 Site Details Schematic & Confirmation
 Soil Sample Locations Map
 DCP Midstream
 Loco Hills Gathering
 Eddy County, NM



2057 Commerce Drive
 Midland, Texas 79703
 432.520.7720

www.novasafetyandenvironmental.com

September 20, 2010 | Scale: 1" = 30' | CAD By: TA | Checked By: CJB
 Lat. N 32° 51' 50.14" Long. W 104° 4' 0.23" | SW1/4 NW1/4 Sec 3 T17S R29E

TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX AND TPH IN SOIL

DCP MIDSTREAM, L.P.
LOCO HILLS GATHERING SYSTEM
EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M			
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅
South S/W-1 @ 1'	06/22/11	0.00243	0.0779	0.141	0.216	0.0928	0.530	41.4	350	<15.2	391
South S/W-2 @ 4'	06/22/11	0.00798	0.175	0.696	0.566	0.222	1.67	28.4	<15.1	<15.1	28.4
Floor-1 @ 1'	06/22/11	<0.001	0.00425	0.00328	0.00360	0.00393	0.0151	<15.1	482	46.1	528
Floor-2 @ 2'	06/22/11	<0.001	<0.002	0.00212	0.00285	0.00123	0.00620	<15.2	379	18.1	397
East S/W-1 @ 1.5'	06/22/11	<0.001	<0.002	0.00136	0.00249	0.00187	0.00572	<15.3	25.1	<15.3	25.1
West S/W-1 @ 1.5'	06/22/11	<0.001	<0.002	<0.001	<0.002	0.00171	0.00171	<15.0	130	<15.0	130
Floor-3 @ 1'	06/22/11	<0.001	<0.002	0.00105	0.00805	0.00933	0.0184	<75.3	228	<75.3	228
Floor-4 @ 1'	06/22/11	<0.001	0.00895	0.0189	0.0256	0.0164	0.0699	<75.5	584	<75.5	584
Floor-5 @ 7'	06/22/11	<0.001	<0.0021	0.0013	<0.021	<0.001	0.0013	<15.6	28.1	<15.6	28.1
North S/W-1 @ 6'	06/22/11	<0.001	0.00315	0.00375	0.00502	0.00350	0.0154	<15.2	<15.2	<15.2	<15.2
West S/W-2 @ 6'	06/22/11	<0.001	<0.0021	<0.001	<0.0021	<0.001	<0.0021	<15.6	<15.6	<15.6	<15.6
East S/W-2 @ 6'	06/22/11	0.00188	0.0152	0.0162	0.0208	0.00769	0.0618	<15.6	16.2	<15.6	16.2
South S/W-3 @ 6'	06/22/11	0.0119	0.0849	0.0706	0.116	0.044	0.327	<15.1	<15.1	<15.1	<15.1
Floor-6 @ 2'	06/22/11	0.00136	<0.0021	<0.001	<0.0021	<0.001	0.00136	<15.2	192	<15.2	192
West S/W-3 @ 1.5'	06/22/11	<0.001	0.00311	0.00492	0.0085	0.00418	0.0207	<15.4	26.5	<15.4	26.5
East S/W-3 @ 1.5'	06/22/11	<0.001	<0.0021	0.00171	0.00368	<0.001	0.00539	<15.5	19.3	<15.5	19.3
Floor-7 @ 1'	06/22/11	<0.001	<0.0021	<0.001	<0.0021	<0.001	<0.0021	<15.7	<15.7	<15.7	<15.7
North S/W-2 @ 3'	06/24/11	0.00114	0.0105	0.0119	0.0200	0.00829	0.0518	<15.8	21.6	<15.8	21.6
North S/W-3 @ 8'	06/24/11	0.0171	0.0807	0.0643	0.0775	0.0259	0.266	<15.5	36.1	<15.5	36.1
West S/W-4 @ 8'	06/24/11	0.0111	0.12	0.125	0.228	0.094	0.578	64.8	1,100	<15.7	1,160
East S/W-4 @ 8'	06/24/11	0.0016	0.0135	0.0144	0.0206	0.00946	0.0596	36.8	1,020	34.4	1,090
South S/W-4 @ 6'	06/24/11	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.9	51.3	<15.9	51.3
R.P. Floor @ 8'	06/24/11	<0.001	0.00393	0.00864	0.0147	0.00555	0.0328	<15.7	18.5	<15.7	18.5
SP-1	07/01/11	-	-	-	-	-	-	169	1,560	20.6	1,750
SP-2	07/01/11	-	-	-	-	-	-	219	1,640	<15.4	1,860
SP-3	07/01/11	-	-	-	-	-	-	213	1,610	20.8	1,840
East S/W-4A @ 8'	07/07/11	0.00136	0.00927	0.0270	0.0695	0.0428	0.150	34.7	163	<15.0	198
West S/W-4A @ 8'	07/07/11	<0.001	<0.0021	<0.001	<0.0021	<0.001	<0.0021	<15.5	139	<15.5	139
SP-1A	07/07/11	<0.001	0.0126	0.0435	0.0830	0.0497	0.189	115	1,470	<15.1	1,590
SP-2A	07/07/11	0.00115	0.00731	0.0294	0.0568	0.0350	0.130	55.1	651	<15.1	706
SP-3A	07/07/11	<0.001	0.00648	0.0269	0.0529	0.0324	0.119	72.5	777	22.6	872

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX ANDTPH IN SOIL

DCP MIDSTREAM, L.P.
LOCO HILLS GATHERING SYSTEM
EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021b						METHOD: SW 8015M			
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅
SP-4	07/07/11	<0.001	0.0101	0.0341	0.0619	0.0352	0.141	54.6	719	23	797
SP-5	07/07/11	<0.001	0.0145	0.0491	0.0868	0.0508	0.201	59	705	20.6	785
SP-6	07/07/11	<0.001	0.00566	0.0168	0.0315	0.0202	0.0742	36.5	409	19.8	465
SP-7	07/07/11	<0.00099	0.00549	0.0144	0.0265	0.0157	0.0621	25.9	300	<15.1	326
SP-1B	09/07/11	-	-	-	-	-	-	115	1470	147	1,730
SP-1C	09/09/11	-	-	-	-	-	-	<15.2	29.1	20.1	49.2

APPENDICES

APPENDIX A:
Archaeological Survey

NMCRIS No.: 122034

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 122034	2a. Lead Agency: US Bureau of Land Management Carlsbad Field Office	2b. Other Agency(ies): New Mexico State Trust Lands	3. Lead Agency Report No.:
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4. Title of Report: Monitoring of a DCP Midstream Oil Spill Clean-up in T17S R29E Section 3. Author(s) Rebecca L. Hill	5. Type of Report <input checked="" type="checkbox"/> Negative <input type="checkbox"/> Positive
---	---

6. Investigation Type

Research Design Archaeological Survey/Inventory Architectural Survey/Inventory Test Excavation Excavation
 Collections/Non-Field Study Compliance Decision Based on Previous Inventory Overview/Lit Review Monitoring
 Ethnographic Study Site/Property Specific Visit Historic Structures Report Other

7. Description of Undertaking (what does the project entail?):

Monitoring of an oil spill clean-up for DCP Midstream in T17S R29E Section 3, Eddy County, NM began on June 15, 2011 for a total of 8 days finishing on September 8, 2011. NOVA, an environmental firm from Midland, TX, began the clean-up by removing dunes on the eastern side of the spill. LA 170166 is located on the western side of the spill within 100 feet of the spill itself. Removal of the dunes allowed room for the equipment to work and it also provided soil to mix with the contaminated soil. Removal of the contaminated soil began at the southern most point of the spill and worked north. After the soil was removed and stockpiled the process of mixing the soil began. Monitoring was not continued during the mixing as the work space was a sufficient distance from the LA 170166. Monitoring recommenced on September 6, 2011 during the backfilling stage of the project which was completed on September 8, 2011. No damages to LA 170166 were encountered.

[] Continuation

8. Dates of Investigation: from: 15-Jun-2011 to: 08-Sep-2011	9. Report Date: 05-Oct-2011
---	------------------------------------

10. Performing Agency/Consultant: Boone Arch Svcs of NM
Principal Investigator: Rebecca L. Hill
Field Supervisor: Rebecca L. Hill
Field Personnel Names: Rebecca L. Hill
Historian / Other:

11. Performing Agency/Consultant Report No.:
BASNM 06-11-27M

12. Applicable Cultural Resource Permit No(s):
BLM Permit # 190-2920-11-P
State Permit #NM-11-157-M

NMCRIS No.: 122034

13. Client/Customer (project proponent):

DCP Midstream

Contact: Jon Bebbington

Address: 10 Desta Drive, Suite 400 West, Midland, TX 79705

Phone: 432-620-4207

14. Client/Customer Project No.:

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)	Acres Surveyed	Acres in APE
TOTALS		

16. Records Search(es):

Date(s) of HPD/ARMS File Review: 7Jun2011	Name of Reviewer(s): Rebecca L. Hill	
Date(s) of Other Agency File Review: 7Jun2011	Name of Reviewer(s): Rebecca L. Hill	Agency: BLM-Carlsbad

17. Survey Data:

a. Source Graphics NAD 27 NAD 83 Note: NAD 83 is the NMCRIS standard.

USGS 7.5' (1:24,000) topo map Other topo map, Scale:

GPS Unit Accuracy <1.0m 1-10m 10-100m >100m Aerial Photo(s)

Other Source Graphic(s):

b. USGS 7.5' Topographic Map Name

USGS Quad Code

Red Lake SE, NM	32104-G1
-----------------	----------

c. County(ies): Eddy

d. Nearest City or Town: Loco Hills, NM

e. Legal Description:

Township (N/S)

Range (E/W)

Section

17S	29E	3
-----	-----	---

Projected legal description? Yes No Unplatted

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

Continuation

18. Survey Field Methods:

Intensity: 100% coverage <100% coverage

Configuration: block survey units linear survey units (l x w):

NMCRIS No.: 122034

other survey units (specify):

Scope: non-selective (all sites/properties recorded) selective/thematic (selected sites/properties recorded)

Coverage Method: systematic pedestrian coverage

other method (describe):

Survey Interval (m): Crew Size: 1 Fieldwork Dates: from: 15-Jun-2011 to: 08-Sep-2011

Monitoring Person Hours: 50 Recording Person Hours: Total Hours: 0.00

Additional Narrative:

[] Continuation

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

Soils: Reeves-Gypsum (RG) 0-3% slope Reeves are fine loamy soils on the down slope and Gypsum soils on the upper riches. The historic plant community has a grassland aspect, dominated by grasses with shrubs. Black grama, blue grama, and tobosa re the historic dominate grass species. Today fourwing salt bush tobosa and mesquite are the dominate vegetation

[] Continuation

20.a. Percent Ground Visibility:

b. Condition of Survey Area (grazed, bladed, undistributed, etc.):

[] Continuation

21. CULTURAL RESOURCE FINDINGS

Yes, see next report section

No, discuss why:

LA 170166 was updated for this project. No damages to the site were encountered during the clean-up.

[] Continuation

22. Attachments (check all appropriate boxes):

- USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- Copy of NMCRIS Map Check (required)
- LA Site Forms - new sites (with sketch map & topographic map) if applicable
- LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
- Historic Cultural Property Inventory Forms, if applicable
- List and Description of Isolates, if applicable
- List and Description of Collections, if applicable

23. Other Attachments:

Photographs and Log

[] Other Attachments (Describe):

NMCRIS No.: 122034

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: Printed Name: Rebecca L. Hill

Signature: **Rebecca Hill**

Digitally signed by Rebecca Hill
DN: cn=Rebecca Hill,
o=BaoneArchServicesofNM,
ou=BASNM,
email=boonearch@yahoo.com, c=US
Date: 2011.10.05 04:47:25 -06'00'

Date: 5 October 2011

Title: Principal Investigator

25. Reviewing Agency

Reviewer's Name/Date:

Accepted []

Rejected []

26. SHPO

Reviewer's Name/Date:

HPD Log #:

Date sent to ARMS:

CULTURAL RE SOURCE FINDINGS

[fill in appropriate section(s)]

SURVEY RESULTS:

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 1

Previously recorded archaeological sites not relocated (site update form required): 0

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 1

Total isolates recorded: 0

Non-selective isolate recording?

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

MANAGEMENT SUMMARY:

[] Continuation

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. Field/Agency No. Eligible? (Y/N/U, applicable criteria)

NMCRIS No.: 122034

Previously recorded revisited sites/HCPI properties:

LA/HCPI No.	Field/Agency No.	Eligible? (Y/N/U, applicable criteria)
170166		Y/D

MONITORING LA NUMBER LOG (site form required)

Sites Discovered (site form required):

Previously recorded sites (site update form required):

LA No. Field/Agency No.

LA No. Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes

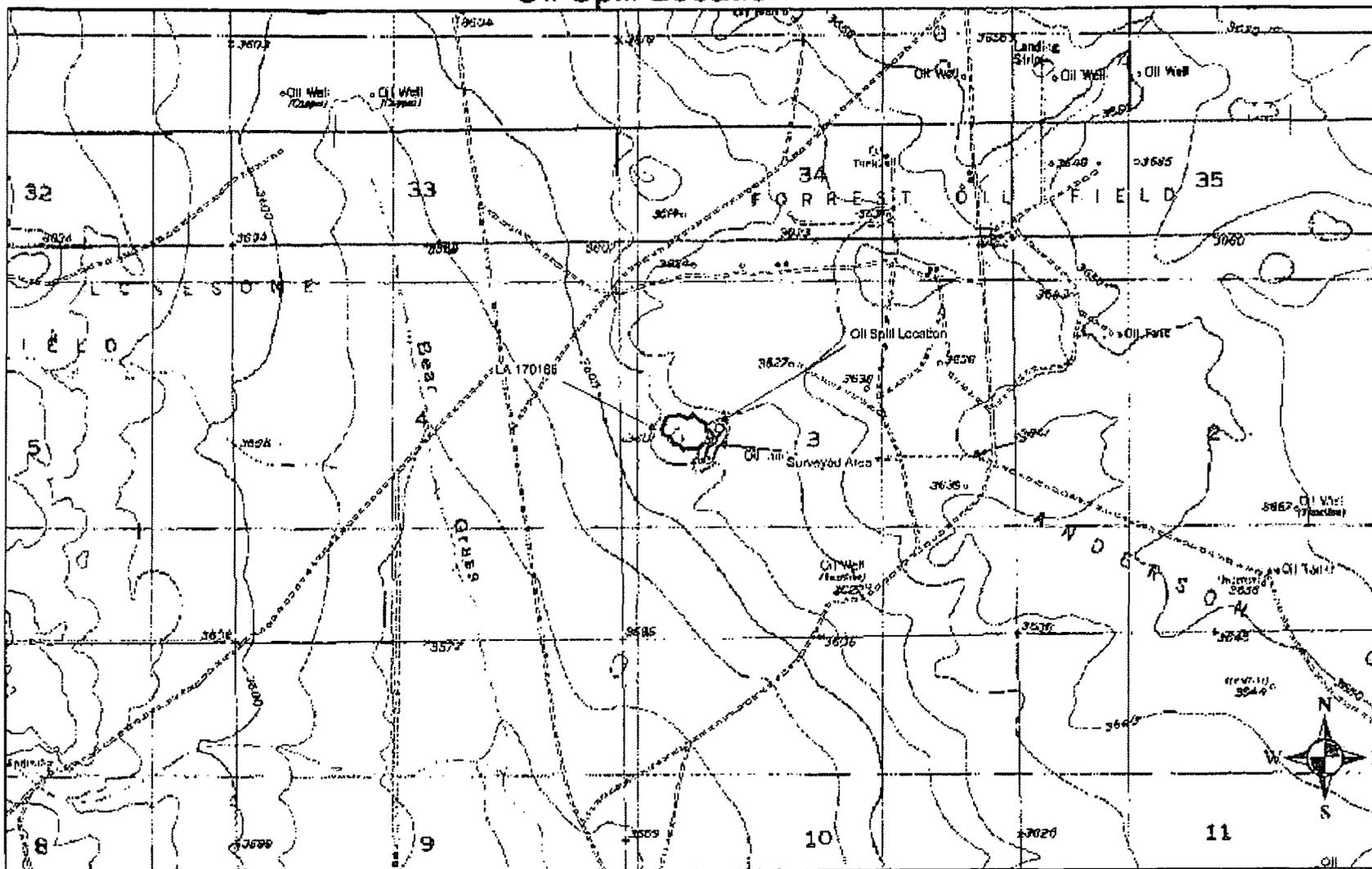
No, Explain
why

TESTING & EXCAVATION LA NUMBER LOG (site form required)

Tested LA number(s)

Excavated LA number(s)

DCP Midstream Oil Spill Location



1:24,000

Legend					
	New Site		BLM		National Park Service
	Surveyed Space		BOR		OFA
	Spill Location		DOE		Private
			Forest Service		State
			I		State Game and Fish
					State Park

Ret Lake SE
32104-G1
T17S R29E Sec 3

APPENDIX B:
Laboratory Analytical Reports

Analytical Report 420862

for Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

29-JUN-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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

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

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

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

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

Xenco Phoenix (EPA Lab Code: AZ00901):

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

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

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



29-JUN-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **420862**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 420862. 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. 420862 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.

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Sample Cross Reference 420862



Nova Safety & Environmental, Midland, TX

Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
South S/W-1 @ 1'	S	Jun-22-11 13:00		420862-001
South S/W-2 @ 4'	S	Jun-22-11 13:05		420862-002
Floor-1 @ 1'	S	Jun-22-11 13:10		420862-003
Floor-2 @ 2'	S	Jun-22-11 13:15		420862-004
East S/W-1 @ 1.5'	S	Jun-22-11 13:20		420862-005
West S/W-1 @ 1.5'	S	Jun-22-11 13:25		420862-006
Floor-3 @ 1'	S	Jun-22-11 13:30		420862-007
Floor -4 @ 1'	S	Jun-22-11 13:35		420862-008
Floor-5 @ 7'	S	Jun-22-11 13:40		420862-009
North S/W-1 @ 6'	S	Jun-22-11 13:45		420862-010
West S/W-2 @ 6'	S	Jun-22-11 13:50		420862-011
East S/W-2 @ 6'	S	Jun-22-11 13:55		420862-012
South S/W-3 @ 6'	S	Jun-22-11 14:00		420862-013
Floor-6 @ 2'	S	Jun-22-11 14:05		420862-014
West S/W-3 @ 1.5'	S	Jun-22-11 14:10		420862-015
East S/W-3 @ 1.5'	S	Jun-22-11 14:15		420862-016
Floor-7 @ 1'	S	Jun-22-11 14:20		420862-017



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:
Work Order Number: 420862

Report Date: 29-JUN-11
Date Received: 06/23/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-861584 BTEX by EPA 8021B
SW8021BM

Batch 861584, Benzene recovered below QC limits in the Matrix Spike. Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 420862-009, -011, -016, -002, -008, -013, -017, -001, -005, -006, -014, -007, -010, -015, -004, -012.

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

SW8021BM

Batch 861584, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 420862-013,420862-008.

Batch: LBA-861924 BTEX by EPA 8021B
SW8021BM

Batch 861924, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 420862-003, -002.

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



Certificate of Analysis Summary 420862

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Thu Jun-23-11 09:30 am

Report Date: 29-JUN-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	420862-001	420862-002	420862-003	420862-004	420862-005	420862-006
	<i>Field Id:</i>	South S/W-1 @ 1'	South S/W-2 @ 4'	Floor-1 @ 1'	Floor-2 @ 2'	East S/W-1 @ 1.5'	West S/W-1 @ 1.5'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-22-11 13:00	Jun-22-11 13:05	Jun-22-11 13:10	Jun-22-11 13:15	Jun-22-11 13:20	Jun-22-11 13:25
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-24-11 11:30	Jun-24-11 11:30	Jun-28-11 08:20	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30
	<i>Analyzed:</i>	Jun-24-11 15:37	Jun-24-11 16:00	Jun-28-11 12:33	Jun-24-11 16:46	Jun-24-11 17:08	Jun-24-11 17:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00243 0.0010	0.00798 0.0010	ND 0.00100	ND 0.0010	ND 0.0010	ND 0.0010
Toluene		0.0779 0.0020	0.175 0.0020	0.00425 0.0020	ND 0.0020	ND 0.0020	ND 0.0020
Ethylbenzene		0.141 0.0010	0.696 D 0.0099	0.00328 0.00100	0.00212 0.0010	0.00136 0.0010	ND 0.0010
m_p-Xylenes		0.216 0.0020	0.566 0.0020	0.00360 0.0020	0.00285 0.0020	0.00249 0.0020	ND 0.0020
o-Xylene		0.0928 0.0010	0.222 0.0010	0.00393 0.00100	0.00123 0.0010	0.00187 0.0010	0.00171 0.0010
Total Xylenes		0.309 0.0010	0.788 0.0010	0.00753 0.00100	0.00408 0.0010	0.00436 0.0010	0.00171 0.0010
Total BTEX		0.530 0.0010	1.67 D 0.0010	0.0151 0.00100	0.00620 0.0010	0.00572 0.0010	0.00171 0.0010
Percent Moisture	<i>Extracted:</i>	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00
	<i>Analyzed:</i>						
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		1.81 1.00	ND 1.00	ND 1.00	1.52 1.00	1.63 1.00	ND 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30
	<i>Analyzed:</i>	Jun-24-11 15:39	Jun-24-11 16:09	Jun-24-11 16:39	Jun-24-11 17:10	Jun-24-11 17:40	Jun-24-11 18:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		41.4 15.2	28.4 15.1	ND 15.1	ND 15.2	ND 15.3	ND 15.0
C12-C28 Diesel Range Hydrocarbons		350 15.2	ND 15.1	482 15.1	379 15.2	25.1 15.3	130 15.0
C28-C35 Oil Range Hydrocarbons		ND 15.2	ND 15.1	46.1 15.1	18.1 15.2	ND 15.3	ND 15.0
Total TPH		391 15.2	28.4 15.1	528 15.1	397 15.2	25.1 15.3	130 15.0

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 420862

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Thu Jun-23-11 09:30 am

Report Date: 29-JUN-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	420862-007	420862-008	420862-009	420862-010	420862-011	420862-012
	<i>Field Id:</i>	Floor-3 @ 1'	Floor -4 @ 1'	Floor-5 @ 7'	North S/W-1 @ 6'	West S/W-2 @ 6'	East S/W-2 @ 6'
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-22-11 13:30	Jun-22-11 13:35	Jun-22-11 13:40	Jun-22-11 13:45	Jun-22-11 13:50	Jun-22-11 13:55
	<i>Extracted:</i>	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30
	<i>Analyzed:</i>	Jun-24-11 17:54	Jun-24-11 18:17	Jun-24-11 18:39	Jun-24-11 19:02	Jun-24-11 20:56	Jun-24-11 21:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.00100	ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	0.00188 0.0010
Toluene		ND 0.0020	0.00895 0.0020	ND 0.0021	0.00315 0.0020	ND 0.0021	0.0152 0.0021
Ethylbenzene		0.00105 0.00100	0.0189 0.0010	0.00130 0.0010	0.00375 0.0010	ND 0.0010	0.0162 0.0010
m_p-Xylenes		0.00805 0.0020	0.0256 0.0020	ND 0.0021	0.00502 0.0020	ND 0.0021	0.0208 0.0021
o-Xylene		0.00933 0.00100	0.0164 0.0010	ND 0.0010	0.00350 0.0010	ND 0.0010	0.00769 0.0010
Total Xylenes		0.0174 0.00100	0.0420 0.0010	ND 0.0010	0.00852 0.0010	ND 0.0010	0.0285 0.0010
Total BTEX		0.0184 0.00100	0.0699 0.0010	0.00130 0.0010	0.0154 0.0010	ND 0.0010	0.0618 0.0010
Percent Moisture	<i>Extracted:</i>	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00
	<i>Analyzed:</i>	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		ND 1.00	ND 1.00	3.31 1.00	1.62 1.00	3.68 1.00	3.92 1.00
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30
	<i>Analyzed:</i>	Jun-24-11 18:40	Jun-24-11 19:09	Jun-24-11 19:39	Jun-24-11 20:09	Jun-24-11 21:07	Jun-24-11 21:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 75.3	ND 75.5	ND 15.6	ND 15.2	ND 15.6	ND 15.6
C12-C28 Diesel Range Hydrocarbons		228 75.3	584 75.5	28.1 15.6	ND 15.2	ND 15.6	16.2 15.6
C28-C35 Oil Range Hydrocarbons		ND 75.3	ND 75.5	ND 15.6	ND 15.2	ND 15.6	ND 15.6
Total TPH		228 75.3	584 75.5	28.1 15.6	ND 15.2	ND 15.6	16.2 15.6

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 Brent Barron, II
 Odessa Laboratory Manager



Certificate of Analysis Summary 420862

Nova Safety & Environmental, Midland, TX



Project Id:

Project Name: Loco Hills Gathering

Date Received in Lab: Thu Jun-23-11 09:30 am

Contact: Camille Bryant

Report Date: 29-JUN-11

Project Location: Eddy County, New Mexico

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	420862-013	420862-014	420862-015	420862-016	420862-017	
	Field Id:	South S/W-3 @ 6'	Floor-6 @ 2'	West S/W-3 @ 1.5'	East S/W-3 @ 1.5'	Floor-7 @ 1'	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jun-22-11 14:00	Jun-22-11 14:05	Jun-22-11 14:10	Jun-22-11 14:15	Jun-22-11 14:20	
BTEX by EPA 8021B	Extracted:	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	Jun-24-11 11:30	
	Analyzed:	Jun-24-11 21:41	Jun-24-11 22:04	Jun-24-11 22:26	Jun-24-11 22:49	Jun-24-11 23:12	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		0.0119 0.0010	0.00136 0.0010	ND 0.0010	ND 0.0010	ND 0.0010	
Toluene		0.0849 0.0020	ND 0.0021	0.00311 0.0020	ND 0.0021	ND 0.0021	
Ethylbenzene		0.0706 0.0010	ND 0.0010	0.00492 0.0010	0.00171 0.0010	ND 0.0010	
m_p-Xylenes		0.116 0.0020	ND 0.0021	0.00850 0.0020	0.00368 0.0021	ND 0.0021	
o-Xylene		0.0440 0.0010	ND 0.0010	0.00418 0.0010	ND 0.0010	ND 0.0010	
Total Xylenes		0.160 0.0010	ND 0.0010	0.0127 0.0010	0.00368 0.0010	ND 0.0010	
Total BTEX		0.327 0.0010	0.00136 0.0010	0.0207 0.0010	0.00539 0.0010	ND 0.0010	
Percent Moisture	Extracted:						
	Analyzed:	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	Jun-23-11 17:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		ND 1.00	1.93 1.00	1.87 1.00	3.05 1.00	4.45 1.00	
TPH By SW8015 Mod	Extracted:	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	Jun-23-11 11:30	
	Analyzed:	Jun-24-11 22:05	Jun-24-11 22:34	Jun-24-11 23:03	Jun-24-11 23:32	Jun-25-11 00:01	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 15.1	ND 15.2	ND 15.4	ND 15.5	ND 15.7	
C12-C28 Diesel Range Hydrocarbons		ND 15.1	192 15.2	26.5 15.4	19.3 15.5	ND 15.7	
C28-C35 Oil Range Hydrocarbons		ND 15.1	ND 15.2	ND 15.4	ND 15.5	ND 15.7	
Total TPH		ND 15.1	192 15.2	26.5 15.4	19.3 15.5	ND 15.7	

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

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Form 2 - Surrogate Recoveries

Project Name: **Loco Hills Gathering**

Work Orders : 420862,

Project ID:

Lab Batch #: 861584

Sample: 606039-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/24/11 12:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 861584

Sample: 606039-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/24/11 12:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 861584

Sample: 606039-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/24/11 13:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0248	0.0300	83	80-120	
4-Bromofluorobenzene	0.0256	0.0300	85	80-120	

Lab Batch #: 861584

Sample: 420862-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 15:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 861584

Sample: 420862-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 16:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861584

Sample: 420862-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 16:46

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

Lab Batch #: 861584

Sample: 420862-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 17:08

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 861584

Sample: 420862-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 17:31

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

Lab Batch #: 861584

Sample: 420862-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 17:54

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 861584

Sample: 420862-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 18:17

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0244	0.0300	81	80-120	
4-Bromofluorobenzene	0.0224	0.0300	75	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861584

Sample: 420862-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 18:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 861584

Sample: 420862-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 19:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 861584

Sample: 420862-006 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 19:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 861584

Sample: 420862-006 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 19:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 861584

Sample: 420862-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 20:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: **Loco Hills Gathering**

Work Orders : 420862,

Project ID:

Lab Batch #: 861584

Sample: 420862-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 21:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 861584

Sample: 420862-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 21:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0216	0.0300	72	80-120	*

Lab Batch #: 861584

Sample: 420862-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 22:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 861584

Sample: 420862-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 22:26

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	0.0324	0.0300	108	80-120	

Lab Batch #: 861584

Sample: 420862-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 22:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861584

Sample: 420862-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 23:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 861924

Sample: 606224-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 09:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 861924

Sample: 606224-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 09:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 861924

Sample: 606224-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 10:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 861924

Sample: 420862-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 12:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861924

Sample: 420862-002 / DL

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/28/11 12:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0247	0.0300	82	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 861924

Sample: 420862-003 S / MS

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/28/11 18:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 861924

Sample: 420862-003 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/28/11 18:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 861507

Sample: 605982-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/24/11 14:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	115	99.6	115	70-135	
o-Terphenyl	53.0	49.8	106	70-135	

Lab Batch #: 861507

Sample: 605982-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/24/11 14:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	116	99.9	116	70-135	
o-Terphenyl	53.0	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.



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861507

Sample: 605982-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/24/11 15:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	58.6	50.0	117	70-135	

Lab Batch #: 861507

Sample: 420862-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/24/11 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	116	99.8	116	70-135	
o-Terphenyl	59.3	49.9	119	70-135	

Lab Batch #: 861507

Sample: 420862-002 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/24/11 16:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.8	108	70-135	
o-Terphenyl	54.2	49.9	109	70-135	

Lab Batch #: 861507

Sample: 420862-003 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/24/11 16:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	53.1	50.1	106	70-135	

Lab Batch #: 861507

Sample: 420862-004 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/24/11 17:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.5	110	70-135	
o-Terphenyl	56.1	49.8	113	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861507

Sample: 420862-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 17:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	101	109	70-135	
o-Terphenyl	56.6	50.3	113	70-135	

Lab Batch #: 861507

Sample: 420862-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 18:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.5	108	70-135	
o-Terphenyl	55.0	49.8	110	70-135	

Lab Batch #: 861507

Sample: 420862-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 18:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.8	99.7	75	70-135	
o-Terphenyl	35.2	49.9	71	70-135	

Lab Batch #: 861507

Sample: 420862-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 19:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	58.7	50.0	117	70-135	

Lab Batch #: 861507

Sample: 420862-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 19:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	61.0	50.2	122	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: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861507

Sample: 420862-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 20:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	145	200	73	70-135	
o-Terphenyl	76.6	99.8	77	70-135	

Lab Batch #: 861507

Sample: 420862-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 21:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	59.6	50.1	119	70-135	

Lab Batch #: 861507

Sample: 420862-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 21:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	61.0	50.1	122	70-135	

Lab Batch #: 861507

Sample: 420862-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 22:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	56.7	50.2	113	70-135	

Lab Batch #: 861507

Sample: 420862-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 22:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.5	110	70-135	
o-Terphenyl	57.3	49.8	115	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 420862,

Project ID:

Lab Batch #: 861507

Sample: 420862-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 23:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	101	112	70-135	
o-Terphenyl	60.5	50.3	120	70-135	

Lab Batch #: 861507

Sample: 420862-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/24/11 23:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	59.2	50.2	118	70-135	

Lab Batch #: 861507

Sample: 420862-017 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/25/11 00:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	60.8	50.2	121	70-135	

Lab Batch #: 861507

Sample: 420862-017 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/25/11 00:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	61.3	50.0	123	70-135	

Lab Batch #: 861507

Sample: 420862-017 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/25/11 00:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.7	118	70-135	
o-Terphenyl	55.2	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.



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 420862

Analyst: ASA

Date Prepared: 06/24/2011

Project ID:

Date Analyzed: 06/24/2011

Lab Batch ID: 861584

Sample: 606039-1-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	<0.00100	0.100	0.104	104	0.100	0.101	101	3	70-130	35	
Toluene	<0.00200	0.100	0.0950	95	0.100	0.0948	95	0	70-130	35	
Ethylbenzene	<0.00100	0.100	0.107	107	0.100	0.103	103	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.209	105	0.200	0.198	99	5	70-135	35	
o-Xylene	<0.00100	0.100	0.103	103	0.100	0.0973	97	6	71-133	35	

Analyst: ASA

Date Prepared: 06/28/2011

Date Analyzed: 06/28/2011

Lab Batch ID: 861924

Sample: 606224-1-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	<0.00100	0.100	0.113	113	0.100	0.107	107	5	70-130	35	
Toluene	<0.00200	0.100	0.105	105	0.100	0.100	100	5	70-130	35	
Ethylbenzene	<0.00100	0.100	0.115	115	0.100	0.110	110	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.222	111	0.200	0.212	106	5	70-135	35	
o-Xylene	<0.00100	0.100	0.110	110	0.100	0.103	103	7	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: Loco Hills Gathering

Work Order #: 420862

Analyst: BEV

Date Prepared: 06/23/2011

Project ID:

Date Analyzed: 06/24/2011

Lab Batch ID: 861507

Sample: 605982-1-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	<14.9	996	848	85	999	877	88	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<14.9	996	834	84	999	825	83	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 / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 420862

Project ID:

Lab Batch ID: 861584

QC- Sample ID: 420862-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/24/2011

Date Prepared: 06/24/2011

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	<0.00101	0.101	0.0669	66	0.101	0.0760	75	13	70-130	35	X
Toluene	<0.00201	0.101	0.0584	58	0.101	0.0648	64	10	70-130	35	X
Ethylbenzene	<0.00101	0.101	0.0601	60	0.101	0.0622	62	3	71-129	35	X
m_p-Xylenes	<0.00201	0.201	0.112	56	0.201	0.115	57	3	70-135	35	X
o-Xylene	0.00171	0.101	0.0520	50	0.101	0.0529	51	2	71-133	35	X

Lab Batch ID: 861924

QC- Sample ID: 420862-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/28/2011

Date Prepared: 06/28/2011

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	<0.00101	0.101	0.0771	76	0.101	0.0752	74	2	70-130	35	
Toluene	0.00425	0.101	0.0678	63	0.101	0.0668	62	1	70-130	35	X
Ethylbenzene	0.00328	0.101	0.0661	62	0.101	0.0641	60	3	71-129	35	X
m_p-Xylenes	0.00360	0.202	0.122	59	0.202	0.118	57	3	70-135	35	X
o-Xylene	0.00393	0.101	0.0568	52	0.101	0.0557	51	2	71-133	35	X

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: Loco Hills Gathering

Work Order #: 420862

Project ID:

Lab Batch ID: 861507

QC- Sample ID: 420862-017 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/25/2011

Date Prepared: 06/23/2011

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	<15.7	1050	903	86	1040	825	79	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.7	1050	803	76	1040	887	85	10	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: Loco Hills Gathering

Work Order #: 420862

Lab Batch #: 861304

Project ID:

Date Analyzed: 06/23/2011 17:00

Date Prepared: 06/23/2011

Analyst: WRU

QC- Sample ID: 420815-001 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	3.74	3.97	6	20	

Lab Batch #: 861307

Date Analyzed: 06/23/2011 17:00

Date Prepared: 06/23/2011

Analyst: WRU

QC- Sample ID: 420862-009 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	3.31	4.02	19	20	

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

BRL - Below Reporting Limit



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety & Env.
 Date/Time: 6.23.11 9.30
 Lab ID #: 420862
 Initials: AE

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 421119

for Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

01-JUL-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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

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

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

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

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

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

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

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



01-JUL-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **421119**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 421119. 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. 421119 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

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Sample Cross Reference 421119



Nova Safety & Environmental, Midland, TX

Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North S/W- 2 @3'	S	Jun-24-11 11:00	3 ft	421119-001
North S/W- 3 @8'	S	Jun-24-11 11:05	8 ft	421119-002
West S/W-4 @8'	S	Jun-24-11 11:10	8 ft	421119-003
East S/W-4 @8'	S	Jun-24-11 11:15	8 ft	421119-004
South S/W- 4 @6'	S	Jun-24-11 11:20	6 ft	421119-005
RP. Floor @8'	S	Jun-24-11 11:25	8 ft	421119-006



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:
Work Order Number: 421119

Report Date: 01-JUL-11
Date Received: 06/24/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

*Batch: LBA-861718 TPH By SW8015 Mod
SW8015MOD_NM*

Batch 861718, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 421119-001,421119-003,421119-006,421119-005,421119-004.

*Batch: LBA-861924 BTEX by EPA 8021B
SW8021BM*

Batch 861924, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 421119-003, -001, -002.

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

SW8021BM

Batch 861924, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 421119-003.

*Batch: LBA-862159 BTEX by EPA 8021B
SW8021BM*

Batch 862159, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 421119-006, -005, -004.

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



Certificate of Analysis Summary 421119

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Fri Jun-24-11 03:49 pm

Report Date: 01-JUL-11

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	421119-001	421119-002	421119-003	421119-004	421119-005	421119-006
	Field Id:	North S/W- 2 @3'	North S/W- 3 @8'	West S/W-4 @8'	East S/W-4 @8'	South S/W- 4 @6'	RP. Floor @8'
Depth:	3 ft	8 ft	8 ft	8 ft	6 ft	8 ft	8 ft
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:	Jun-24-11 11:00	Jun-24-11 11:05	Jun-24-11 11:10	Jun-24-11 11:15	Jun-24-11 11:20	Jun-24-11 11:25	Jun-24-11 11:25
BTEX by EPA 8021B	Extracted:	Jun-28-11 08:20	Jun-28-11 08:20	Jun-28-11 08:20	Jun-29-11 14:43	Jun-29-11 14:43	Jun-29-11 14:43
	Analyzed:	Jun-28-11 21:49	Jun-28-11 22:11	Jun-28-11 22:34	Jun-30-11 09:35	Jun-30-11 01:18	Jun-30-11 01:40
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00114 0.0010	0.0171 0.0010	0.0111 0.0010	0.00160 0.0010	ND 0.0011	ND 0.0010
Toluene		0.0105 0.0021	0.0807 0.0021	0.120 0.0021	0.0135 0.0021	ND 0.0021	0.00393 0.0021
Ethylbenzene		0.0119 0.0010	0.0643 0.0010	0.125 0.0010	0.0144 0.0010	ND 0.0011	0.00864 0.0010
m_p-Xylenes		0.0200 0.0021	0.0775 0.0021	0.228 0.0021	0.0206 0.0021	ND 0.0021	0.0147 0.0021
o-Xylene		0.00829 0.0010	0.0259 0.0010	0.0940 0.0010	0.00946 0.0010	ND 0.0011	0.00555 0.0010
Total Xylenes		0.0283 0.0010	0.103 0.0010	0.322 0.0010	0.0301 0.0010	ND 0.0011	0.0203 0.0010
Total BTEX		0.0518 0.0010	0.266 0.0010	0.578 0.0010	0.0596 0.0010	ND 0.0011	0.0328 0.0010
Percent Moisture	Extracted:	Jun-27-11 11:30	Jun-27-11 11:30	Jun-27-11 11:30	Jun-27-11 11:43	Jun-27-11 11:43	Jun-27-11 11:43
	Analyzed:	Jun-27-11 11:30	Jun-27-11 11:30	Jun-27-11 11:30	Jun-27-11 11:43	Jun-27-11 11:43	Jun-27-11 11:43
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		4.62 1.00	3.26 1.00	4.22 1.00	2.89 1.00	5.46 1.00	4.48 1.00
TPH By SW8015 Mod	Extracted:	Jun-27-11 10:30	Jun-27-11 10:30	Jun-27-11 10:30	Jun-27-11 10:30	Jun-27-11 10:30	Jun-27-11 10:30
	Analyzed:	Jun-27-11 15:37	Jun-27-11 16:07	Jun-27-11 16:37	Jun-27-11 17:08	Jun-27-11 17:38	Jun-27-11 18:08
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.8	ND 15.5	64.8 15.7	36.8 15.5	ND 15.9	ND 15.7
C12-C28 Diesel Range Hydrocarbons		21.6 15.8	36.1 15.5	1100 15.7	1020 15.5	51.3 15.9	18.5 15.7
C28-C35 Oil Range Hydrocarbons		ND 15.8	ND 15.5	ND 15.7	34.4 15.5	ND 15.9	ND 15.7
Total TPH		21.6 15.8	36.1 15.5	1160 15.7	1090 15.5	51.3 15.9	18.5 15.7

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

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Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 421119,

Project ID:

Lab Batch #: 861924

Sample: 606224-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 09:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 861924

Sample: 606224-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 09:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 861924

Sample: 606224-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/28/11 10:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 861924

Sample: 420862-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 18:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	80-120	

Lab Batch #: 861924

Sample: 420862-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 18:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0268	0.0300	89	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: Loco Hills Gathering

Work Orders : 421119,

Project ID:

Lab Batch #: 861924

Sample: 421119-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 21:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 861924

Sample: 421119-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 22:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 861924

Sample: 421119-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/28/11 22:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0400	0.0300	133	80-120	**

Lab Batch #: 862159

Sample: 606878-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/29/11 23:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 862159

Sample: 606878-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/29/11 23:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	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: **Loco Hills Gathering**

Work Orders : 421119,

Project ID:

Lab Batch #: 862159

Sample: 606878-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 06/30/11 00:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 862159

Sample: 421119-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/30/11 01:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 862159

Sample: 421119-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/30/11 01:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 862159

Sample: 421119-005 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/30/11 05:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0327	0.0300	109	80-120	

Lab Batch #: 862159

Sample: 421119-005 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/30/11 05:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	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: Loco Hills Gathering

Work Orders : 421119,

Project ID:

Lab Batch #: 862159

Sample: 421119-004 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/30/11 09:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 861718

Sample: 606101-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/27/11 14:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.5	111	70-135	
o-Terphenyl	57.5	49.8	115	70-135	

Lab Batch #: 861718

Sample: 606101-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/27/11 14:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	58.2	50.2	116	70-135	

Lab Batch #: 861718

Sample: 606101-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 06/27/11 15:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.8	112	70-135	
o-Terphenyl	62.7	49.9	126	70-135	

Lab Batch #: 861718

Sample: 421119-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 06/27/11 15:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	70.3	50.1	140	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: Loco Hills Gathering

Work Orders : 421119,

Project ID:

Lab Batch #: 861718

Sample: 421119-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 16:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.9	116	70-135	
o-Terphenyl	63.4	50.0	127	70-135	

Lab Batch #: 861718

Sample: 421119-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 16:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	68.8	50.0	138	70-135	*

Lab Batch #: 861718

Sample: 421119-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 17:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	68.3	50.2	136	70-135	*

Lab Batch #: 861718

Sample: 421119-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 17:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	68.5	50.2	136	70-135	*

Lab Batch #: 861718

Sample: 421119-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 18:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	69.8	50.1	139	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: **Loco Hills Gathering**

Work Orders : 421119,

Project ID:

Lab Batch #: 861718

Sample: 421119-006 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 18:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	153	201	76	70-135	
o-Terphenyl	81.6	100	82	70-135	

Lab Batch #: 861718

Sample: 421119-006 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 06/27/11 19:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	67.4	50.2	134	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 421119

Analyst: ASA

Date Prepared: 06/28/2011

Project ID:

Date Analyzed: 06/28/2011

Lab Batch ID: 861924

Sample: 606224-1-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	<0.00100	0.100	0.113	113	0.100	0.107	107	5	70-130	35	
Toluene	<0.00200	0.100	0.105	105	0.100	0.100	100	5	70-130	35	
Ethylbenzene	<0.00100	0.100	0.115	115	0.100	0.110	110	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.222	111	0.200	0.212	106	5	70-135	35	
o-Xylene	<0.00100	0.100	0.110	110	0.100	0.103	103	7	71-133	35	

Analyst: ASA

Date Prepared: 06/29/2011

Date Analyzed: 06/29/2011

Lab Batch ID: 862159

Sample: 606878-1-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	<0.00100	0.100	0.106	106	0.100	0.0990	99	7	70-130	35	
Toluene	<0.00200	0.100	0.0974	97	0.100	0.0906	91	7	70-130	35	
Ethylbenzene	<0.00100	0.100	0.105	105	0.100	0.0987	99	6	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.203	102	0.200	0.191	96	6	70-135	35	
o-Xylene	<0.00100	0.100	0.101	101	0.100	0.0959	96	5	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: Loco Hills Gathering

Work Order #: 421119

Analyst: BEV

Date Prepared: 06/27/2011

Project ID:

Date Analyzed: 06/27/2011

Lab Batch ID: 861718

Sample: 606101-1-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	<14.9	995	837	84	1000	850	85	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<14.9	995	798	80	1000	815	82	2	70-135	35	

Relative Percent Difference RPD = $200 * \frac{(C-F)}{(C+F)}$

Blank Spike Recovery [D] = $100 * \frac{(C)}{[B]}$

Blank Spike Duplicate Recovery [G] = $100 * \frac{(F)}{[E]}$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 421119

Project ID:

Lab Batch ID: 861924

QC- Sample ID: 420862-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/28/2011

Date Prepared: 06/28/2011

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	<0.00101	0.101	0.0771	76	0.101	0.0752	74	2	70-130	35	
Toluene	0.00425	0.101	0.0678	63	0.101	0.0668	62	1	70-130	35	X
Ethylbenzene	0.00328	0.101	0.0661	62	0.101	0.0641	60	3	71-129	35	X
m_p-Xylenes	0.00360	0.202	0.122	59	0.202	0.118	57	3	70-135	35	X
o-Xylene	0.00393	0.101	0.0568	52	0.101	0.0557	51	2	71-133	35	X

Lab Batch ID: 862159

QC- Sample ID: 421119-005 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/30/2011

Date Prepared: 06/29/2011

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	<0.00105	0.105	0.0864	82	0.105	0.0794	76	8	70-130	35	
Toluene	<0.00209	0.105	0.0772	74	0.105	0.0731	70	5	70-130	35	
Ethylbenzene	<0.00105	0.105	0.0829	79	0.105	0.0781	74	6	71-129	35	
m_p-Xylenes	<0.00209	0.209	0.158	76	0.211	0.147	70	7	70-135	35	
o-Xylene	<0.00105	0.105	0.0771	73	0.105	0.0724	69	6	71-133	35	X

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: Loco Hills Gathering

Work Order #: 421119

Project ID:

Lab Batch ID: 861718

QC- Sample ID: 421119-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/27/2011

Date Prepared: 06/27/2011

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	<15.8	1050	1050	100	1050	881	84	18	70-135	35	
C12-C28 Diesel Range Hydrocarbons	18.5	1050	987	92	1050	828	77	18	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: Loco Hills Gathering

Work Order #: 421119

Lab Batch #: 861731

Project ID:

Date Analyzed: 06/27/2011 11:30

Date Prepared: 06/27/2011

Analyst: WRU

QC- Sample ID: 421127-001 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	13.2	13.0	2	20	

Lab Batch #: 861733

Date Analyzed: 06/27/2011 11:43

Date Prepared: 06/27/2011

Analyst: WRU

QC- Sample ID: 421119-004 D

Batch #: 1

Matrix: Soil

Reporting Units: %

		SAMPLE / SAMPLE DUPLICATE RECOVERY			
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.89	2.47	16	20	

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

BRL - Below Reporting Limit



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety
 Date/Time: 6-24-11 3:49
 Lab ID #: 421119
 Initials: LM

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 421882

for

Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

06-JUL-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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

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

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

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

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

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

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



06-JUL-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **421882**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 421882. 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. 421882 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 421882



Nova Safety & Environmental, Midland, TX

Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	Jul-01-11 11:53		421882-001
SP-2	S	Jul-01-11 11:59		421882-002
SP-3	S	Jul-01-11 12:07		421882-003



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:
Work Order Number: 421882

Report Date: 06-JUL-11
Date Received: 07/01/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 421882

Nova Safety & Environmental, Midland, TX

Project Name: Loco Hills Gathering



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Date Received in Lab: Fri Jul-01-11 04:53 pm

Report Date: 06-JUL-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	421882-001	421882-002	421882-003			
	<i>Field Id:</i>	SP-1	SP-2	SP-3			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Jul-01-11 11:53	Jul-01-11 11:59	Jul-01-11 12:07			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jul-05-11 10:08	Jul-05-11 10:08	Jul-05-11 10:08			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		2.37 1.00	2.57 1.00	2.44 1.00			
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-05-11 10:00	Jul-05-11 10:00	Jul-05-11 10:00			
	<i>Analyzed:</i>	Jul-05-11 13:59	Jul-05-11 14:30	Jul-05-11 15:01			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		169 15.3	219 15.4	213 15.3			
C12-C28 Diesel Range Hydrocarbons		1560 15.3	1640 15.4	1610 15.3			
C28-C35 Oil Range Hydrocarbons		20.6 15.3	ND 15.4	20.8 15.3			
Total TPH		1750 15.3	1860 15.4	1840 15.3			

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

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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- LOD** Limit of Detection
- LOQ** Limit of Quantitation
- DL** Method Detection Limit
- NC** Non-Calculable
- + 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
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12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lanc, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: **Loco Hills Gathering**

Work Orders : 421882,

Project ID:

Lab Batch #: 862622

Sample: 607157-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/05/11 12:27

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	99.9	86	70-135	
o-Terphenyl	43.2	50.0	86	70-135	

Lab Batch #: 862622

Sample: 607157-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/05/11 12:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.4	99.7	89	70-135	
o-Terphenyl	45.6	49.9	91	70-135	

Lab Batch #: 862622

Sample: 607157-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/05/11 13:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	100	85	70-135	
o-Terphenyl	44.3	50.2	88	70-135	

Lab Batch #: 862622

Sample: 421882-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/05/11 13:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	79.0	99.7	79	70-135	
o-Terphenyl	39.8	49.9	80	70-135	

Lab Batch #: 862622

Sample: 421882-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/05/11 14:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.0	100	77	70-135	
o-Terphenyl	38.6	50.0	77	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 421882,

Project ID:

Lab Batch #: 862622

Sample: 421882-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/05/11 15:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.8	99.8	83	70-135	
o-Terphenyl	41.4	49.9	83	70-135	

Lab Batch #: 862622

Sample: 421882-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/05/11 15:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.4	100	77	70-135	
o-Terphenyl	36.7	50.1	73	70-135	

Lab Batch #: 862622

Sample: 421882-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/05/11 16:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.6	100	77	70-135	
o-Terphenyl	37.3	50.1	74	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 421882

Analyst: BEV

Date Prepared: 07/05/2011

Project ID:

Date Analyzed: 07/05/2011

Lab Batch ID: 862622

Sample: 607157-1-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	<15.0	999	900	90	997	922	92	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	999	884	88	997	926	93	5	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 / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 421882

Project ID:

Lab Batch ID: 862622

QC- Sample ID: 421882-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/05/2011

Date Prepared: 07/05/2011

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	213	1030	943	71	1030	934	70	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	1610	1030	2350	72	1030	2390	76	2	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: Loco Hills Gathering

Work Order #: 421882

Lab Batch #: 862627

Project ID:

Date Analyzed: 07/05/2011 10:08

Date Prepared: 07/05/2011

Analyst: WRU

QC- Sample ID: 421882-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	2.37	2.32	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



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety & Environmental
 Date/Time: 7-1-11 16:53
 Lab ID #: 421882
 Initials: LM

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	<u>No</u>	N/A	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs -1.4 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 422474

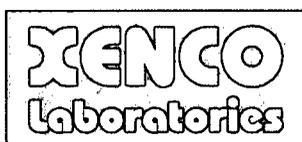
for Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

19-JUL-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122):

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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

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

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

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

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

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

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

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

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



19-JUL-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **422474**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 422474. 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. 422474 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 422474



Nova Safety & Environmental, Midland, TX
Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East S/W-4A @ 8'	S	Jul-07-11 09:00		422474-001
West S/W-4A @ 8'	S	Jul-07-11 09:10		422474-002
SP-1A	S	Jul-07-11 12:00		422474-003
SP-2A	S	Jul-07-11 12:05		422474-004
SP-3A	S	Jul-07-11 12:10		422474-005
SP-4	S	Jul-07-11 12:15		422474-006
SP-5	S	Jul-07-11 12:20		422474-007
SP-6	S	Jul-07-11 12:25		422474-008
SP-7	S	Jul-07-11 12:30		422474-009



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:
Work Order Number: 422474

Report Date: 19-JUL-11
Date Received: 07/08/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-863486 BTEX by EPA 8021B
SW8021BM

Batch 863486, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 422474-002, -001.

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

Batch: LBA-864167 BTEX by EPA 8021B
SW8021BM

Batch 864167, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 422474-009.

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

Samples affected are: 422474-003.



Certificate of Analysis Summary 422474

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Fri Jul-08-11 11:08 am

Report Date: 19-JUL-11

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	422474-001	422474-002	422474-003	422474-004	422474-005	422474-006
	Field Id:	East S/W-4A @ 8'	West S/W-4A @ 8'	SP-1A	SP-2A	SP-3A	SP-4
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-07-11 09:00	Jul-07-11 09:10	Jul-07-11 12:00	Jul-07-11 12:05	Jul-07-11 12:10	Jul-07-11 12:15
	Extracted:	Jul-12-11 09:30	Jul-12-11 09:30	Jul-18-11 08:46	Jul-18-11 08:46	Jul-18-11 08:46	Jul-18-11 08:46
	Analyzed:	Jul-12-11 20:49	Jul-12-11 21:12	Jul-18-11 13:50	Jul-18-11 14:13	Jul-18-11 14:35	Jul-18-11 14:58
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.00136 0.0010	ND 0.0010	ND 0.0010	0.00115 0.0010	ND 0.00100	ND 0.00100
Toluene		0.00927 0.0020	ND 0.0021	0.0126 0.0020	0.00731 0.0020	0.00648 0.0020	0.0101 0.0020
Ethylbenzene		0.0270 0.0010	ND 0.0010	0.0435 0.0010	0.0294 0.0010	0.0269 0.00100	0.0341 0.00100
m_p-Xylenes		0.0695 0.0020	ND 0.0021	0.0830 0.0020	0.0568 0.0020	0.0529 0.0020	0.0619 0.0020
o-Xylene		0.0428 0.0010	ND 0.0010	0.0497 0.0010	0.0350 0.0010	0.0324 0.00100	0.0352 0.00100
Total Xylenes		0.112 0.0010	ND 0.0010	0.133 0.0010	0.0918 0.0010	0.0853 0.00100	0.0971 0.00100
Total BTEX		0.150 0.0010	ND 0.0010	0.189 0.0010	0.130 0.0010	0.119 0.00100	0.141 0.00100
Percent Moisture	Extracted:	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15
	Analyzed:	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		ND 1.00	3.43 1.00	ND 1.00	ND 1.00	ND 1.00	ND 1.00
TPH By SW8015 Mod	Extracted:	Jul-09-11 11:30	Jul-09-11 11:30	Jul-09-11 11:30	Jul-09-11 11:30	Jul-09-11 11:30	Jul-09-11 11:30
	Analyzed:	Jul-09-11 20:20	Jul-09-11 20:51	Jul-09-11 21:22	Jul-09-11 21:53	Jul-09-11 22:23	Jul-09-11 22:52
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		34.7 15.0	ND 15.5	115 15.1	55.1 15.1	72.5 15.1	54.6 15.1
C12-C28 Diesel Range Hydrocarbons		163 15.0	139 15.5	1470 15.1	651 15.1	777 15.1	719 15.1
C28-C35 Oil Range Hydrocarbons		ND 15.0	ND 15.5	ND 15.1	ND 15.1	22.6 15.1	23.0 15.1
Total TPH		198 15.0	139 15.5	1590 15.1	706 15.1	872 15.1	797 15.1

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 422474

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Fri Jul-08-11 11:08 am

Report Date: 19-JUL-11

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	422474-007	422474-008	422474-009			
	<i>Field Id:</i>	SP-5	SP-6	SP-7			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Jul-07-11 12:20	Jul-07-11 12:25	Jul-07-11 12:30			
	<i>Extracted:</i>	Jul-18-11 08:46	Jul-18-11 08:46	Jul-18-11 08:46			
	<i>Analyzed:</i>	Jul-18-11 15:21	Jul-18-11 15:43	Jul-18-11 16:07			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.0010	ND 0.00100	ND 0.00099			
Toluene		0.0145 0.0020	0.00566 0.0020	0.00549 0.0020			
Ethylbenzene		0.0491 0.0010	0.0168 0.00100	0.0144 0.00099			
m_p-Xylenes		0.0868 0.0020	0.0315 0.0020	0.0265 0.0020			
o-Xylene		0.0508 0.0010	0.0202 0.00100	0.0157 0.00099			
Total Xylenes		0.138 0.0010	0.0517 0.00100	0.0422 0.00099			
Total BTEX		0.201 0.0010	0.0742 0.00100	0.0621 0.00099			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jul-08-11 15:15	Jul-08-11 15:15	Jul-08-11 15:15			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		ND 1.00	ND 1.00	ND 1.00			
TPH By SW8015 Mod	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jul-09-11 11:30	Jul-09-11 11:30	Jul-09-11 11:30			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C12 Gasoline Range Hydrocarbons		59.0 15.0	36.5 15.0	25.9 15.1			
C12-C28 Diesel Range Hydrocarbons		705 15.0	409 15.0	300 15.1			
C28-C35 Oil Range Hydrocarbons		20.6 15.0	19.8 15.0	ND 15.1			
Total TPH		785 15.0	465 15.0	326 15.1			

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



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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 863486

Sample: 607677-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 07/12/11 11:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 863486

Sample: 607677-1-BSD / BSD

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 07/12/11 11:32

SURROGATE RECOVERY STUDY

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

Lab Batch #: 863486

Sample: 607677-1-BLK / BLK

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 07/12/11 12:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 863486

Sample: 422474-001 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/12/11 20:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0302	0.0300	101	80-120	

Lab Batch #: 863486

Sample: 422474-002 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/12/11 21:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	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: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 863486

Sample: 422474-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/11 02:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 863486

Sample: 422474-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/13/11 02:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	0.0308	0.0300	103	80-120	

Lab Batch #: 864167

Sample: 608076-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/18/11 09:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0306	0.0300	102	80-120	

Lab Batch #: 864167

Sample: 608076-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/18/11 10:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 864167

Sample: 608076-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/18/11 11:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 864167

Sample: 423105-001 S / MS

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 12:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 864167

Sample: 423105-001 SD / MSD

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 12:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 864167

Sample: 422474-003 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 13:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0371	0.0300	124	80-120	*

Lab Batch #: 864167

Sample: 422474-004 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 14:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 864167

Sample: 422474-005 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 14:35

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	0.0338	0.0300	113	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: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 864167

Sample: 422474-006 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 14:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 864167

Sample: 422474-007 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 15:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0241	0.0300	80	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 864167

Sample: 422474-008 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 15:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 864167

Sample: 422474-009 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/18/11 16:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0234	0.0300	78	80-120	*
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 863227

Sample: 607509-1-BKS / BKS

Batch: 1 **Matrix:** Solid

Units: mg/kg

Date Analyzed: 07/09/11 18:45

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	59.8	50.1	119	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: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 863227

Sample: 607509-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/09/11 19:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	99.6	128	70-135	
o-Terphenyl	66.0	49.8	133	70-135	

Lab Batch #: 863227

Sample: 607509-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/09/11 19:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.8	109	70-135	
o-Terphenyl	60.6	49.9	121	70-135	

Lab Batch #: 863227

Sample: 422474-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/09/11 20:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	80.6	99.6	81	70-135	
o-Terphenyl	41.1	49.8	83	70-135	

Lab Batch #: 863227

Sample: 422474-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/09/11 20:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	58.5	50.0	117	70-135	

Lab Batch #: 863227

Sample: 422474-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/09/11 21:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.7	100	70-135	
o-Terphenyl	54.3	49.9	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.



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 863227

Sample: 422474-004 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/09/11 21:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	54.6	50.2	109	70-135	

Lab Batch #: 863227

Sample: 422474-005 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/09/11 22:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	59.9	50.0	120	70-135	

Lab Batch #: 863227

Sample: 422474-006 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/09/11 22:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	65.1	50.1	130	70-135	

Lab Batch #: 863227

Sample: 422474-007 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/09/11 23:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.8	119	70-135	
o-Terphenyl	64.7	49.9	130	70-135	

Lab Batch #: 863227

Sample: 422474-008 / SMP

Batch: 1 **Matrix:** Soil

Units: mg/kg

Date Analyzed: 07/09/11 23:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.7	117	70-135	
o-Terphenyl	63.1	49.9	126	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: Loco Hills Gathering

Work Orders : 422474,

Project ID:

Lab Batch #: 863227

Sample: 422474-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/10/11 00:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	101	113	70-135	
o-Terphenyl	62.6	50.3	124	70-135	

Lab Batch #: 863227

Sample: 422474-009 D / MD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/10/11 05:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	101	118	70-135	
o-Terphenyl	64.1	50.3	127	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 422474

Analyst: ASA

Date Prepared: 07/12/2011

Project ID:

Date Analyzed: 07/12/2011

Lab Batch ID: 863486

Sample: 607677-1-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	<0.00100	0.100	0.111	111	0.100	0.115	115	4	70-130	35	
Toluene	<0.00200	0.100	0.101	101	0.100	0.107	107	6	70-130	35	
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.113	113	6	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.206	103	0.200	0.218	109	6	70-135	35	
o-Xylene	<0.00100	0.100	0.101	101	0.100	0.108	108	7	71-133	35	

Analyst: ASA

Date Prepared: 07/18/2011

Date Analyzed: 07/18/2011

Lab Batch ID: 864167

Sample: 608076-1-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	<0.00100	0.100	0.108	108	0.100	0.108	108	0	70-130	35	
Toluene	<0.00200	0.100	0.102	102	0.100	0.101	101	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.110	110	0.100	0.111	111	1	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.214	107	0.200	0.215	108	0	70-135	35	
o-Xylene	<0.00100	0.100	0.106	106	0.100	0.109	109	3	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: Loco Hills Gathering

Work Order #: 422474

Analyst: BEV

Date Prepared: 07/09/2011

Project ID:

Date Analyzed: 07/09/2011

Lab Batch ID: 863227

Sample: 607509-1-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	<15.0	1000	879	88	996	964	97	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	864	86	996	950	95	9	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 / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 422474

Project ID:

Lab Batch ID: 863486

QC- Sample ID: 422474-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/13/2011

Date Prepared: 07/12/2011

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	0.00136	0.0999	0.0733	72	0.0999	0.0622	61	16	70-130	35	X
Toluene	0.00927	0.0999	0.0773	68	0.0999	0.0664	57	15	70-130	35	X
Ethylbenzene	0.0270	0.0999	0.106	79	0.0999	0.0927	66	13	71-129	35	X
m_p-Xylenes	0.0695	0.200	0.225	78	0.200	0.198	64	13	70-135	35	X
o-Xylene	0.0428	0.0999	0.121	78	0.0999	0.108	65	11	71-133	35	X

Lab Batch ID: 864167

QC- Sample ID: 423105-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/18/2011

Date Prepared: 07/18/2011

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	<0.00106	0.106	0.103	97	0.106	0.102	96	1	70-130	35	
Toluene	<0.00212	0.106	0.0951	90	0.106	0.0953	90	0	70-130	35	
Ethylbenzene	<0.00106	0.106	0.101	95	0.106	0.102	96	1	71-129	35	
m_p-Xylenes	<0.00212	0.212	0.196	92	0.212	0.193	91	2	70-135	35	
o-Xylene	<0.00106	0.106	0.0960	91	0.106	0.0948	89	1	71-133	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: Loco Hills Gathering

Work Order #: 422474

Lab Batch #: 863289

Project ID:

Date Analyzed: 07/08/2011 15:15

Date Prepared: 07/08/2011

Analyst: WRU

QC- Sample ID: 422475-001 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	<1.00	<1.00	0	20	

Lab Batch #: 863227

Date Analyzed: 07/10/2011 05:41

Date Prepared: 07/09/2011

Analyst: BEV

QC- Sample ID: 422474-009 D

Batch #: 1

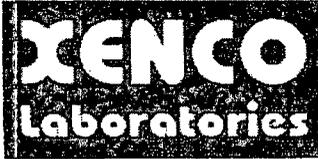
Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TPH By SW8015 Mod	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
C6-C12 Gasoline Range Hydrocarbons	25.9	26.6	3	35	
C12-C28 Diesel Range Hydrocarbons	300	316	5	35	
C28-C35 Oil Range Hydrocarbons	<15.1	<15.1	0	35	

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

BRL - Below Reporting Limit



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety & Env
 Date/Time: 7-8-11 11:08
 Lab ID #: 422394
 Initials: LM

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 427175

for Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

08-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), 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 Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

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

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



08-SEP-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **427175**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 427175. 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. 427175 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 427175



Nova Safety & Environmental, Midland, TX
Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1B	S	09-07-11 13:50		427175-001



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:

Work Order Number: 427175

Report Date: 08-SEP-11

Date Received: 09/07/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 427175

Nova Safety & Environmental, Midland, TX



Project Id:

Contact: Camille Bryant

Project Location: Eddy County, New Mexico

Project Name: Loco Hills Gathering

Date Received in Lab: Wed Sep-07-11 04:35 pm

Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	427175-001				
	Field Id:	SP-1B				
	Depth:					
	Matrix:	SOIL				
	Sampled:	Sep-07-11 13:50				
Percent Moisture	Extracted:					
	Analyzed:	Sep-07-11 17:00				
	Units/RL:	% RL				
Percent Moisture		1.78 1.00				
TPH By SW8015 Mod	Extracted:	Sep-07-11 16:43				
	Analyzed:	Sep-08-11 02:15				
	Units/RL:	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		115 15.2				
C12-C28 Diesel Range Hydrocarbons		1470 15.2				
C28-C35 Oil Range Hydrocarbons		147 15.2				
Total TPH		1730 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.

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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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2505 North Falkenburg Rd, Tampa, FL 33619	(210) 509-3334	(210) 509-3335
5757 NW 158th St, Miami Lakes, FL 33014	(813) 620-2000	(813) 620-2033
12600 West I-20 East, Odessa, TX 79765	(305) 823-8500	(305) 823-8555
6017 Financial Drive, Norcross, GA 30071	(432) 563-1800	(432) 563-1713
3725 E. Atlanta Ave, Phoenix, AZ 85040	(770) 449-8800	(770) 449-5477
	(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Loco Hills Gathering

Work Orders : 427175,

Project ID:

Lab Batch #: 869404

Sample: 427175-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/11 02:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	134	99.5	135	70-135	
o-Terphenyl	62.7	49.8	126	70-135	

Lab Batch #: 869404

Sample: 611049-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/07/11 22:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	101	101	70-135	
o-Terphenyl	49.8	50.3	99	70-135	

Lab Batch #: 869404

Sample: 611049-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/07/11 21:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	133	100	133	70-135	
o-Terphenyl	55.3	50.1	110	70-135	

Lab Batch #: 869404

Sample: 611049-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/07/11 22:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.9	111	70-135	
o-Terphenyl	45.4	50.0	91	70-135	

Lab Batch #: 869404

Sample: 427106-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/11 02:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	47.6	50.0	95	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: Loco Hills Gathering

Work Orders : 427175,

Project ID:

Lab Batch #: 869404

Sample: 427106-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/08/11 03:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	46.6	50.1	93	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 427175

Analyst: BBH

Date Prepared: 09/07/2011

Project ID:

Date Analyzed: 09/07/2011

Lab Batch ID: 869404

Sample: 611049-1-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	<15.0	1000	817	82	999	732	73	11	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	932	93	999	736	74	24	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 / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 427175

Project ID:

Lab Batch ID: 869404

QC- Sample ID: 427106-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/08/2011

Date Prepared: 09/07/2011

Analyst: BBH

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	<16.9	1120	790	71	1130	806	71	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<16.9	1120	897	80	1130	873	77	3	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: Loco Hills Gathering

Work Order #: 427175

Lab Batch #: 869400

Project ID:

Date Analyzed: 09/07/2011 13:08

Date Prepared: 09/07/2011

Analyst: BRB

QC- Sample ID: 427131-016 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	<1.00	<1.00	0	20	

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

BRL - Below Reporting Limit



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety
 Date/Time: 9-7-11 10:35
 Lab ID #: 427175
 Initials: AE

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 427375

for Nova Safety & Environmental

Project Manager: Camille Bryant

Loco Hills Gathering

12-SEP-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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

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

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



12-SEP-11

Project Manager: **Camille Bryant**
Nova Safety & Environmental
2057 Commerce Street
Midland, TX 79703

Reference: XENCO Report No: **427375**
Loco Hills Gathering
Project Address: Eddy County, New Mexico

Camille Bryant:

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 427375. 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. 427375 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 427375



Nova Safety & Environmental, Midland, TX
Loco Hills Gathering

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1C	S	09-09-11 13:00		427375-001



CASE NARRATIVE

Client Name: Nova Safety & Environmental

Project Name: Loco Hills Gathering



Project ID:
Work Order Number: 427375

Report Date: 12-SEP-11
Date Received: 09/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 427375

Nova Safety & Environmental, Midland, TX



Project Id:

Project Name: Loco Hills Gathering

Contact: Camille Bryant

Date Received in Lab: Fri Sep-09-11 04:10 pm

Project Location: Eddy County, New Mexico

Report Date: 12-SEP-11

Project Manager: Brent Barron II

Analysis Requested	<i>Lab Id:</i>	427375-001				
	<i>Field Id:</i>	SP-1C				
	<i>Depth:</i>					
	<i>Matrix:</i>	SOIL				
	<i>Sampled:</i>	Sep-09-11 13:00				
Percent Moisture	<i>Extracted:</i>					
	<i>Analyzed:</i>	Sep-09-11 17:00				
	<i>Units/RL:</i>	% RL				
Percent Moisture		1.67 1.00				
TPH By SW8015 Mod	<i>Extracted:</i>	Sep-09-11 16:30				
	<i>Analyzed:</i>	Sep-12-11 03:52				
	<i>Units/RL:</i>	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.2				
C12-C28 Diesel Range Hydrocarbons		29.1 15.2				
C28-C35 Oil Range Hydrocarbons		20.1 15.2				
Total TPH		49.2 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.

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 affect the recovery of the spike concentration. This condition could also affect 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 quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: **Loco Hills Gathering**

Work Orders : 427375,

Project ID:

Lab Batch #: 869691

Sample: 427375-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/12/11 03:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	99.8	94	70-135	
o-Terphenyl	46.8	49.9	94	70-135	

Lab Batch #: 869691

Sample: 611195-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/11/11 19:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	78.6	99.5	79	70-135	
o-Terphenyl	42.1	49.8	85	70-135	

Lab Batch #: 869691

Sample: 611195-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/11/11 18:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.6	100	89	70-135	
o-Terphenyl	45.6	50.2	91	70-135	

Lab Batch #: 869691

Sample: 611195-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 09/11/11 18:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	43.3	50.1	86	70-135	

Lab Batch #: 869691

Sample: 427262-008 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/12/11 07:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	41.6	50.0	83	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: Loco Hills Gathering

Work Orders : 427375,

Project ID:

Lab Batch #: 869691

Sample: 427262-008 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 09/12/11 07:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.1	100	98	70-135	
o-Terphenyl	46.9	50.1	94	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



BS / BSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 427375

Analyst: BBH

Lab Batch ID: 869691

Sample: 611195-1-BKS

Date Prepared: 09/09/2011

Batch #: 1

Project ID:

Date Analyzed: 09/11/2011

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C12 Gasoline Range Hydrocarbons	<15.1	1000	851	85	1000	869	87	2	70-135	35
C12-C28 Diesel Range Hydrocarbons	<15.1	1000	712	71	1000	728	73	2	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 / MSD Recoveries



Project Name: Loco Hills Gathering

Work Order #: 427375

Project ID:

Lab Batch ID: 869691

QC- Sample ID: 427262-008 S

Batch #: 1 Matrix: Soil

Date Analyzed: 09/12/2011

Date Prepared: 09/09/2011

Analyst: BBH

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	<15.7	1040	1020	98	1050	978	93	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.7	1040	804	77	1050	808	77	0	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: Loco Hills Gathering

Work Order #: 427375

Lab Batch #: 869633

Project ID:

Date Analyzed: 09/09/2011 15:30

Date Prepared: 09/09/2011

Analyst: BRB

QC- Sample ID: 427325-004 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	5.46	5.03	8	20	

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



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

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Nova Safety & Env.
 Date/Time: 9.9.11 16:10
 Lab ID #: 427375
 Initials: ae

Sample Receipt Checklist

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

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

**APPENDIX C:
Soil Disposal Manifests**

ticket: 355575

Page 1 of 1

4507 W. Carlsbad Hwy
Hobbs, New Mexico 88240



(575)393-1079
WWW.CRIHOBBS.COM

TICKET: 355575

Bill To:	DCP Midstream	Lease:	LOCO HILLS
Company/Generator:	DCP MIDSTREAM	Well:	GATHERING SYSTEM SITE F 454
Company Man:	JOHN BEDDINGTON	Rig:	
Trucking:	A & S	PO:	
Date:	6/22/2011	Driver:	SERGIO
3rd Party Ticket:	NA	Vehicle:	5

Comments

Type of Materials

Product	Quantity	Area	Description
Cont Soil	20.00 yards	50/51	

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/Agent (signature)

CRI Representative (signature)

Tank Bottoms

	Feet	Inches	BS & W/BBI'S Received	BS & W
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

Ticket: 355577

4507 W. Carlsbad Hwy
Hobbs, New Mexico 88240



(575)393-1079
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TICKET: 355577

Bill To:	DCP Midstream	Lease:	LOCO HILLS
Company/Generator:	DCP MIDSTREAM	Well:	GATHERING SYSTEM SITE E 454
Company Man:	JOHN BEDDINGTON	Rig:	
Trucking:	A & S	PO:	
Date:	6/22/2011	Driver:	ARNESTO
3rd Party Ticket:	NA	Vehicle:	3

Comments

Type of Materials

Product	Quantity	Area	Description
Cont Soil	20.00 yards	50/51	

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.
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 - MSDS Information
 - RCRA Hazardous Waste Analysis
 - Process Knowledge
 - Other (Provide description above)

Driver/Agent (signature)

CRH Representative (signature)

ERNESTO

Tank Bottoms

	Feet	Inches	BS & W/BBLs Received	BS & W
1st Gauge				
2nd Gauge			Free Water	
Received			Total Received	

NON-HAZARDOUS WASTE MANIFEST

75202

PART I: Generator DCP Mplata on
Address 1200 - 1st St. South
City/State Abilene / TX 79701

(575) 695-7210
Telephone No.

ORIGINATION OF WASTE:

Operations Center _____ **Permit No.** _____

Property Name Love Hill Tank Farm
(Well, Tank Battery, Plant, Facility)
3000 S. Highway 178, Box 274, Abilene, TX

WASTE IDENTIFICATION AND AMOUNT (BARRELS, YARDS, TONS, CU.FT., LBS., UNITS, ETC.)		
Drilling Fluids _____	Tank Bottoms _____	Exempt Fluids _____
Completion Fluids _____	Gas Plant Waste _____	C117 No. _____
Contaminated Soil <u>Crude Oils</u>	Other Materials _____	Pit No. _____
DESCRIPTION / NOTES		

CERTIFICATION: The waste described above is not hazardous pursuant to 40 CFR Part 261 and was consigned to the transporter named below. I certify that the foregoing is true and correct to the best of my knowledge.

Signature of Generator's Authorized Agent

Date and Time of Shipment

PART II: TRANSPORTER: (To be completed in full by Transporter)

Name A+S Trucking
Address P.O. Box 225
City/State Hagerman, N.M. 88232
Telephone No. 575-696-1471
Truck No. # 4

CERTIFICATION: I certify that the waste in quantity above was received by me for shipment to the destination below.
[Signature]
Signature of Transporter's Agent
6-22-11
Date and Time Received

PART III: DISPOSAL OR RECLAMATION SITE:

Name Controlled Recovery, Inc.
Address P.O. Box 388
City/State Hobbs, N.M. 88241-0388
Telephone No. (575) 393-1079
E-mail www.crihobbs.com

CERTIFICATION: I certify that the waste described in Part I was received by me via the transporter described in Part II.

Signature of Facility Agent

Date and Time Received

**APPENDIX D:
Release Notification and Corrective Action
(Form-C-414)**

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	DCP Midstream, LP	Contact	Jon D. Bebbington
Address	10 Desta Drive, Suite 400 West	Telephone No.	432-620-4207
Facility Name	Loco Hills Gathering System	Facility Type	Pipeline
Surface Owner	BLM / State	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	3	17S	29E					EDDY

Latitude N32.86394 _____ Longitude W104.06673

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	16	Volume Recovered	11
Source of Release	Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	06-03-2011 16:00
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Oil Conservation Division - Artesia		
By Whom?	Johnnie Bradford/DCP	Date and Hour	June 6, 2011 1600		
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.* No water course was impacted.

Describe Cause of Problem and Remedial Action Taken.*

On June 3, 2011 at approximately 1600 a field operator discovered that a pipeline had leaked crude oil. The leak is attributed to corrosion.

Describe Area Affected and Cleanup Action Taken.*

A vacuum truck was dispatched and recovered approximately 11 bbls of oil. OCD was notified by telephone and e-mail on June 6 and BLM was notified by telephone on June 6. BLM's Paul Evans visited the site and requested that an arc survey be performed as the spill had progressed on the lease road 150 yards down a dry creek bed. The cleanup by DCP contractor NOVA will be performed once the archeological survey delineates the area. Approx 80 feet of the pipeline was replaced.

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: Jon D. Bebbington		Approved by District Supervisor:	
Title: Sr. Environmental Engineer		Approval Date:	Expiration Date:
E-mail Address: jdbbebbington@dcpmidstream.com		Conditions of Approval:	
Date:	Phone: 432-620-4207	Attached <input type="checkbox"/>	