Basin Environmental Consulting, LLC

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ŵ **Effective Solutions**

REMEDIATION SUMMARY

AND SITE CLOSURE PROPOSAL

LEGACY RESERVES, LP LR Chamberlain Tank Battery Lea County, New Mexico UNIT LTR "C" (NE ¼ NW ¼), Section 14, Township 15 South, Range 37 East Latitude 33° 01' 20.3" North, Longitude 103° 10' 16.6" West NMOCD Reference # 1RP-2390 and 1RP-2513

Prepared For:

Legacy Reserves, L.P. P.O. Box 10848 Midland, TX 79702

RECEIVED

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Prepared By: Basin Environmental Consulting, LLC 2800 Plains Highway Lovington, New Mexico 88260

August 2010

Project Manager

Entermontos NMOCD-Hold 0811110

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INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Consulting, LLC (Basin), on behalf of Legacy Reserves, LP (Legacy), has prepared this Remediation Summary and Site Closure Proposal for the release site known as LR Chamberlain Tank Battery. The legal description of the release site is Unit Letter "C" (NE $\frac{1}{4}$ NW $\frac{1}{4}$), Section 14, Township 15 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by Mr. Darr Angell. The release site latitude is 32° 01' 20.3" North and the longitude is 103° 10' 16.6" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site Map. General photographs are provided as Appendix C.

On January 6, 2010, Legacy discovered a release had occurred at the LR Chamberlain Tank Battery. The transfer line on a 500 barrel tank was obstructed, resulting in a release of produced water and crude oil. The release was reported to the New Mexico Oil Conservation Division (NMOCD) Hobbs District Office on January 7, 2010. The Release Notification and Corrective Action (Form C-141) indicated approximately 680 barrels of produced water and crude oil was released and 600 barrels were recovered. The release was confined inside the tank battery. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

On May 5, 2010, Legacy discovered an additional release had occurred at the LR Chamberlain Tank Battery. Equipment failure of a 3:1 swedge on the discharge side of the transfer pump resulted in a release of produced water. The release was reported to the NMOCD Hobbs District Office on May 6, 2010. The Release Notification and Corrective Action (Form C-141) indicated approximately 80 barrels of produced water was released and approximately 60 barrels were recovered. The release was confined inside the tank battery. The Release Notification and Corrective Action (Form C-141) is provided as Appendix D.

Remediation activities of the January 6, 2010 and May 5, 2010, releases will be conducted simultaneously.

NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database indicates the average depth to groundwater is approximately forty (40) feet below ground surface (bgs) in the section. This depth to groundwater results in a score of twenty (20) 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 LR Chamberlain Tank Battery release site has an initial ranking score of twenty (20). Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

• Benzene -10 mg/Kg (ppm)

- BTEX 50 mg/Kg (ppm)
- TPH 100 mg/Kg (ppm)

The NMOCD chloride clean up level concentrations are site specific and will be determined by the NMOCD Hobbs District Office.

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On January 22, 2010, Basin began excavation activities at the LR Chamberlain Tank Battery release site. The area inside the tank battery was excavated to approximately 1.5 feet bgs. Approximately 1,200 cubic yards (cy) of impacted soil was excavated and stockpiled on-site pending final disposition.

On March 30, 2010, two (2) trenches (NE Corner and S. Middle) were advanced at the site to investigate the vertical and horizontal extent of impact at the site. Selected soil samples were submitted to the laboratory and analyzed for concentrations of benzene, toluene, ethyl-benzene and xylenes (BTEX), total petroleum hydrocarbons (TPH) and chlorides using EPA SW 846-8021b, SW 846-8015M and E 300, respectively. A summary of the analytical results are included in Table 1, Concentrations of BTEX, TPH and Chlorides in Soil. Laboratory analytical reports are provided as Appendix B.

The NE trench was advanced in the northeast corner of the tank battery to approximately seventeen (17) feet bgs. Four (4) soil samples (NE Corner 5', NE Corner 10', NE Corner @ 15' and NE Corner 17') were collected from the trench and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory method detection limit (MDL) for all the submitted soil samples. BTEX concentrations ranged from 0.0256 mg/Kg for soil sample NE Corner @ 17' to 25.5 mg/Kg for soil sample NE Corner @ 15'. TPH concentrations ranged from 431 mg/Kg for soil sample NE Corner @ 17' to 5,435 mg/Kg for soil sample NE Corner @ 15'. Chloride concentrations ranged from 624 mg/Kg for soil sample NE Corner @ 15' to 1,420 mg/Kg for soil sample NE Corner @ 5'.

The S. Middle trench was advanced in the center of the tank battery approximately forty (40) feet south of the eastern most tank, to approximately fifteen (15) feet bgs. Four (4) soil samples (S. Middle @ 5', S. Middle @ 10, S. Middle @ 12' and S. Middle @ 15') were collected from the trench and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. BTEX concentrations ranged from 2.773 mg/Kg for soil sample S. Middle @ 5' to 173.5 mg/Kg for soil sample S. Middle @ 12'. TPH concentrations ranged from 3,391 mg/Kg for soil sample S. Middle @ 5' to 9,477 mg/Kg for soil sample S. Middle @ 12'. Chloride concentrations ranged from 1,680 mg/Kg for soil sample S. Middle @ 10' to 3,110 mg/Kg for soil sample S. Middle @ 12'.

On April 28, 2010, five (5) delineation trenches (T-1, T-2, T-3, T-4 and T-5) were advanced outside of the tank battery to investigate the vertical and horizontal extent of impacted soil at the site. One (1) trench was advanced to the east (T-5) and west (T-4) of the tank battery and three (3) trenches (T-1, T-2 and T-3) were advanced to the north of the tank battery. The delineation

trenches were positioned against the berm and extended perpendicular to the direction of the berm. Selected soil samples were collected from the trenches and submitted to the laboratory for determination of BTEX, TPH and chloride concentrations.

Trench #1 was advanced on the northwest side of the tank battery to an approximate depth of seventeen (17) feet bgs. Twelve (12) soil samples (T-1 Sample 1 @ 2', T-1 Sample 1 @ 7', T-1 Sample 1 @ 15', T-1 Sample 1 @ 17', T-1 Sample 2 @ 2', T-1 Sample 2 @ 5', T-1 Sample 3 @ 2', T-1 Sample 3 @ 5', T-1 Sample 4 @ 2', T-1 Sample 4 @ 5', T-1 Sample 5 @ 2' and T-1 Sample 5 @ 3') were collected and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples, with the exception of soil samples T-1 Sample 5 @ 2' and T-1 Sample 5 @ 3' which exhibited TPH concentrations of 113.5 mg/Kg and 180.6 mg/Kg, respectively. Chloride concentrations ranged from 8.95 mg/Kg for soil sample T-1 Sample 5 @ 3' to 1,460 mg/Kg for soil sample T-1 Sample 4 @ 5'.

Trench #2 was advanced on the north central side of the tank battery to an approximate depth of thirteen (13) feet bgs, where a solid rock layer was encountered. Eight (8) soil samples (T-2 Sample 1 @ 2', T-2 Sample 1 @ 7', T-2 Sample 1 @ 12', T-2 Sample 1 @ 13', T-2 Sample 2 @ 2', T-2 Sample 2 @ 5', T-2 Sample 3 @ 2' and T-2 Sample 3 @ 5') were collected and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Chloride concentrations ranged from 66.3 mg/Kg for soil sample T-2 Sample 3 @ 5' to 837 mg/Kg for soil sample T-2 Sample 1 @ 2'.

Trench #3 was advanced on the northeast side of the tank battery to an approximate depth of seven (7) feet bgs. Seven (7) soil samples (T-3 Sample 1 @ 2', T-3 Sample 1 @ 5', T-3 Sample 1 @ 7', T-3 Sample 2 @ 5', T-3 Sample 3 @ 5', T-3 Sample 4 @ 2' and T-3 Sample 4 @ 5') were collected and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all submitted soil samples. Chloride concentrations ranged from 71.6 mg/Kg for soil sample T-3 Sample 4 @ 2' to 981 mg/Kg for soil sample T-3 Sample 3 @ 5'.

Trench #4 was advanced on the west side of the tank battery to an approximate depth of three (3) feet bgs. A solid rock layer was encountered on the west side of the tank battery at depths ranging from one and half (1.5) feet to three (3) feet bgs. Four soil samples (T-4 Sample 1 @ 1.5', T-4 Sample 2 @ 1.5', T-4 Sample 3 @ 2' and T-4 Sample 3 @ 3') were collected and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Chloride concentrations ranged from 67.6 mg/Kg for soil sample T-4 Sample 3 @ 2' to 885 mg/Kg for soil sample T-4 Sample 2 @ 1.5'.

Trench #5 was advanced on the east side of the tank battery to an approximate depth of three and a half (3.5) feet bgs. A solid rock layer was encountered on the east side of the battery at depths

ranging from approximately one and a half (1.5) feet to three and a half (3.5) feet bgs. Three (3) soil samples were collected and submitted to the laboratory for analysis. Following soil sample collection the trench was backfilled. Laboratory analytical results indicated benzene, BTEX and TPH concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. Chloride concentrations ranged from 66.4 mg/Kg for soil sample T-5 Sample 2 @ 2' to 2,870 mg/Kg for soil sample T-5 Sample 1 @ 2'.

On June 29, 2010, with NMOCD approval, one (1) soil boring (SB-1) was advanced inside the LR Chamberlain Tank Battery to investigate the vertical extent of soil impact. Soil boring logs are provided as Appendix A. Soil samples were collected a five (5) foot drilling intervals and field screened using a Photo-Ionization Detector (PID) and a chloride field screening kit. Selected soil samples were submitted to the laboratory for determination of concentrations of BTEX, TPH and chlorides.

Soil boring SB-1 was advanced in the southern portion of the tank battery to a total depth of approximately thirty (30) feet bgs. Soil samples collected at five (5) feet, ten (10) feet, fifteen (15) feet, twenty (20) feet, twenty five (25) feet and thirty (30) feet were submitted to the lab for analysis. Laboratory analytical results indicated benzene and BTEX concentrations were less than the appropriate laboratory MDL for all the submitted soil samples. TPH concentrations ranged from less than the appropriate laboratory MDL for soil samples SB-1 @ 10', SB-1 @ 15', SB-1 @ 20' and SB-1 @ 25' to 51.9 mg/Kg for soil sample SB-1 @ 5'. Chloride concentrations ranged from 72.7 mg/Kg for soil sample SB-1 @ 25' to 2,170 mg/Kg for soil sample SB-1 @ 5'.

PROPOSED ACTIONS

Legacy proposes the following risk-based closure strategy designed to progress the LR Chamberlain Tank Battery release site toward an NMOCD approved closure:

- The area defined by and including Trench #1 will be excavated to approximately ten (10) 9 feet bgs. The area defined by and including Trench #2 will be excavated to approximately eight (8) feet bgs. The area defined by and including Trench #3 will be excavated to approximately five (5) feet bgs. The area defined by and including Trench #4 will be excavated to approximately one and a half (1.5) feet bgs or to the solid rock layer. No excavation activities will be conducted on the east side of the tank battery in the area defined by Trench #5 due to multiple pipelines in the area. A map depicting the Proposed Excavation Area is provided as Figure 3. The limits of the excavation will be determined by field screening using a chloride field test kit. Due to this being an active tank battery and a high traffic area the excavation will be backfilled based on chloride field test results. Soil samples will be collected at approximately seventy five (75) foot intervals from the excavation sidewalls and field tested for concentrations of chlorides. When chloride field tests indicate chloride concentrations of the soil samples collected from the sidewalls of the excavation are less than 500 mg/Kg excavation activities will cease. All excavated soil will be transported to Gandy-Marley Inc. (NMOCD permit # DP-1041) for disposal.
- Following excavation activities, the area will be backfilled with non-impacted soil obtained from the landowner, to approximately two and a half (2.5) feet bgs. A one (1) foot clay cap will be installed and compacted in the excavation to inhibit vertical

migration of the contaminants left in place below the clay cap, while allowing for the natural attenuation of the contaminants left in-situ. The remaining portion of the excavation will be backfilled with caliche obtained from the landowner and compacted.

- The area inside the tank battery will be excavated to the solid rock layer. The areas defined by and including the Northeast Corner Trench and the South Middle Trench will be excavated to approximately fifteen (15) feet bgs.
- Following excavation activities, the deeper excavated areas will be backfilled and compacted with non-impacted soil obtained from the landowner, to approximately one and a half (1.5) feet bgs. A one (1) foot of clay cap will be installed and compacted in the excavation to inhibit vertical migration of the contaminants left in place below the clay cap, while allowing for the natural attenuation of the contaminants left in-situ. The excavation will be backfilled with caliche obtained from the landowner and compacted. Following backfilling activities, the berms around the tank battery will be repaired.

REPORTING

On review and approval of this proposal by the NMOCD, Legacy is prepared to begin the field activities and perform the corrective actions summarized in this Remediation Summary and Site Closure Proposal. Upon completion of the field activities summarized in this proposal, Legacy will submit a Site Closure Request to the NMOCD, documenting the results of confirmation soil samples, and final site activities.

LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Site Closure Proposal to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC 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. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC 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 Legacy Reserves, 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 Basin Environmental Consulting, LLC and/or Legacy Reserves, L.P.

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DISTRIBUTION:

Copy 1:	Geoffrey Leking New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division (District 1) 625 N. French Drive Hobbs, New Mexico 88240
Copy 2:	Kevin Bracey Legacy Reserves, LP PO Box 10848 Midland, Texas 79702
Copy 3:	Mr. Darr Angell P.O. Box 190 Lovington, New Mexico 88260
Сору 3:	Basin Environmental Consulting, LLC P.O. Box 381 Lovington, New Mexico 88260

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Figures

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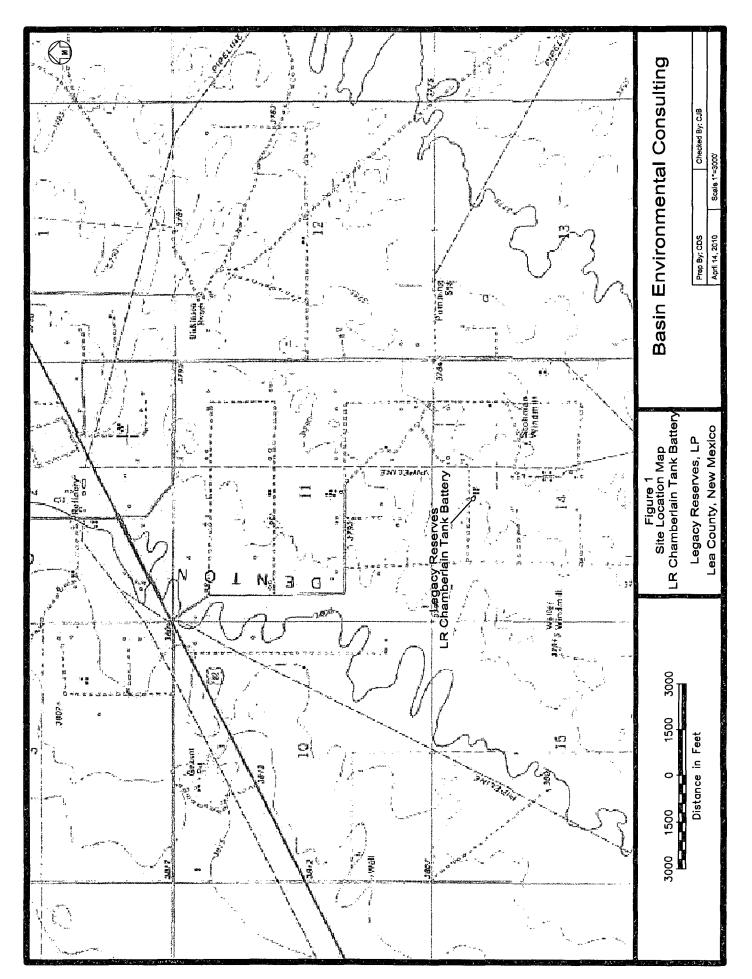
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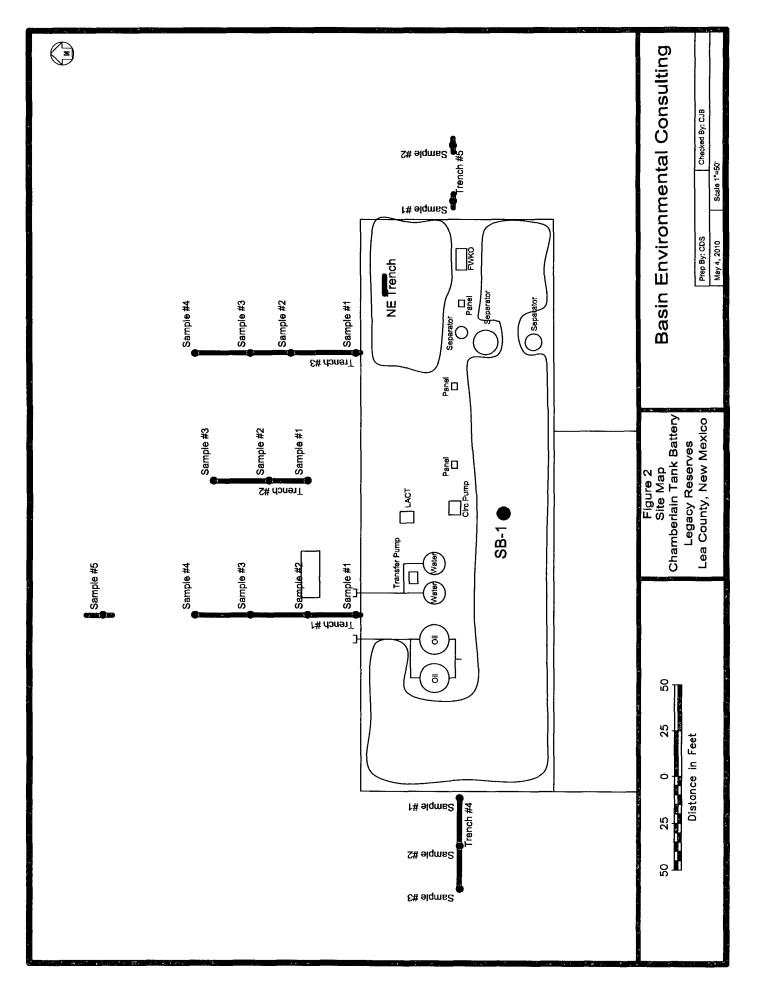
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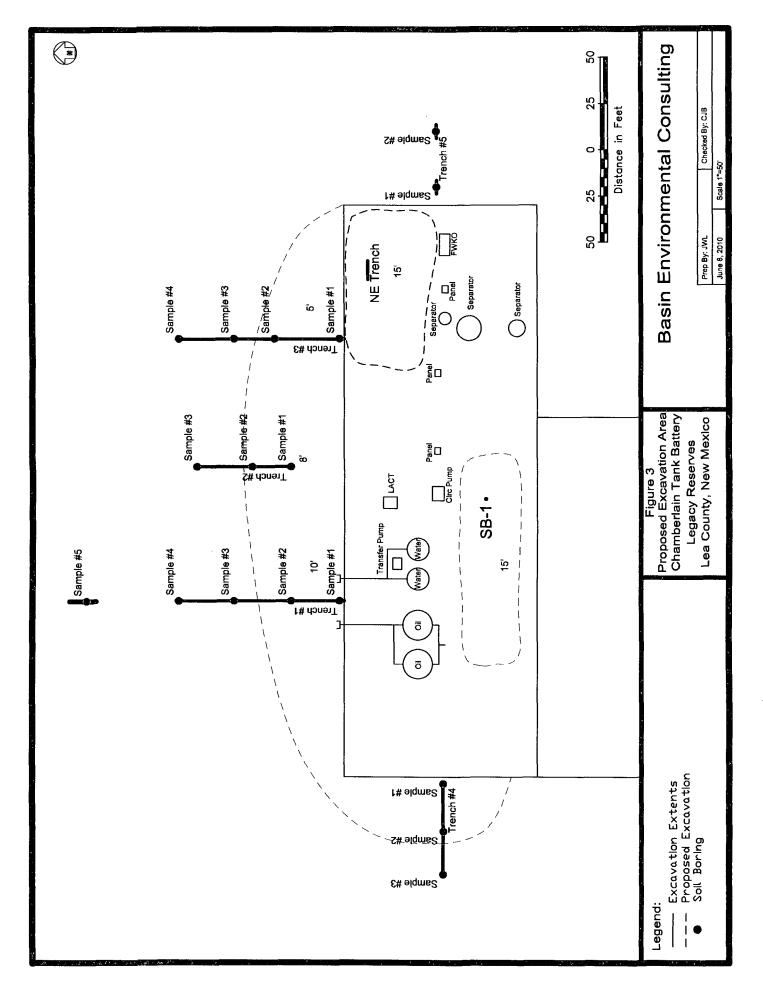
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Tables

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Analytical Report 367582 for **Basin Environmental Consulting, LLC Project Manager: Camille Bryant** LR Chamberlain Tank Battery Legacy Reserves West 07-APR-10 aboratorie ACCOA 12600 West I-20 East Odessa, Texas 79765 Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102) Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105) Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)



07-APR-10



Project Manager: **Camille Bryant Basin Environmental Consulting, LLC** P.O. Box 381 Lovington, NM 88260

Reference: XENCO Report No: 367582 LR Chamberlain Tank Battery Project Address: Lea County, NM

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 367582. 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. 367582 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 367582



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Basin Environmental Consulting, LLC, Lovington, NM

ANT CALL THE REAL PROPERTY OF

LR Chamberlain Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NE Corner @ 5'	S	Mar-30-10 12:30		367582-001
NE Corner @ 10'	S	Mar-30-10 12:45		367582-002
NE Corner @ 15'	S	Mar-30-10 13:10		367582-003
NE Corner @ 17'	S	Mar-30-10 13:30		367582-004
S. Middle @ 5'	S	Mar-30-10 14:10		367582-005
S. Middle @ 10'	S	Mar-30-10 14:30		367582-006
S. Middle @ 12'	S	Mar-30-10 14:45		367582-007
S. Middle @ 15'	S	Mar-30-10 15:00		367582-008

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID:Legacy Reserves WestWork Order Number:367582

Report Date: 07-APR-10 Date Received: 04/01/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-800761 TPH By SW8015 Mod SW8015MOD_NM

Batch 800761, o-Terphenyl recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 367582-001. 1-Chlorooctane recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 367582-001,367582-002.

Batch: LBA-800773 Percent Moisture None

Batch: LBA-800848 BTEX by EPA 8021B SW8021BM Batch 800848, Ethylbenzene, m,p-Xylenes , o-Xylene RPD is outside the QC limit. This is most likely due to sample non-homogeneity. Samples affected are: 367582-003, -002.

SW8021BM

Batch 800848, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 367078-001 D,367582-002,367582-003. 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 367078-001 D,367582-003,367582-002.

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID:Legacy Reserves WestWork Order Number:367582

Report Date: 07-APR-10 Date Received: 04/01/2010

Batch: LBA-801040 BTEX by EPA 8021B SW8021BM

Batch 801040, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 367582-005,367582-007,367582-006. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 367582-005.

Batch: LBA-801122 Inorganic Anions by EPA 300 None

Batch: LBA-801206 BTEX by EPA 8021B SW8021BM

Batch 801206, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 367582-004,367582-001. 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 367432-001 D,367582-004,367582-001.

SW8021BM Batch 801206, Ethylbenzene, m,p-Xylenes , o-Xylene RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 367582-004, -001.



Project Id: Legacy Reserves West

Certificate of Analysis Summary 367582 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



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Contact: Camille Bryant Project Location: Lea County, NM				Da		Thu Apr-01-10 08:52 am	ш
Project Location: Lea County, NM							
					Report Date: (0/-APK-10	
					Project Manager: 1	Brent Barron, II	
	Lab Id:	367582-001	367582-002	367582-003	367582-004	367582-005	367582-006
Analysis Ronuested	Field Id:	NE Corner @ 5'	NE Comer @ 10'	NE Corner @ 15'	NE Comer @ 17	S. Middle @ 5'	S. Middle @ 10'
northan the sector	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Mar-30-10 12:30	Mar-30-10 12:45	Mar-30-10 13:10	Mar-30-10 13:30	Mar-30-10 14:10	Mar-30-10 14:30
Anions by E300	Extracted:						
	Analyzed:	Apr-05-10 20:14	Apr-05-10 20:14	Apr-05-10 20:14	Apr-05-10 20:14	Apr-05-10 20:14	Apr-05-10 20:14
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1420 25.1	867 9.63	624 9.47	755 9.60	2790 49.6	0
BTEX by EPA 8021B	Extracted:	Apr-06-10 07:30	Apr-01-10 09:00	Apr-01-10 09:00	Apr-06-10 07:30	Apr-03-10 11:00	Apr-03-10 11:00
	Analyzed:	Apr-06-10 13:21	Apr-01-10 18:02	Apr-01-10 18:43	Apr-06-10 11:51	Apr-03-10 19:06	Apr-03-10 19:28
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0012	ND 0.1147	ND 0.5637	1100.0 UN	ND 0.0118	ND 5.562
Toluene		ND 0.0024	ND 0.2294	ND 1.127	ND 0.0023	0.0281 0.0236	ND 11.12
Ethylbenzene		0.0077 0.0012	0.7867 0.1147	8.455 0.5637	0.0035 0.0011	0.4166 0.0118	32.48 5.562
m.p-Xylenes		0.0257 0.0024	2.546 0.2294	11.23 1.127	0.0142 0.0023	1.366 0.0236	54.84 11.12
o-Xylene		0.0222 0.0012	0.1846 0.1147	5.829 0.5637	0.0079 0.0011	0.9622 0.0118	10.18 5.562
Total Xylenes		0.0479 0.0012	2.731 0.1147	17.06 0.5637	0.0221 0.0011	2.328 0.0118	65.02 5.562
Total BTEX		0.0556 0.0012	3.517 0.1147	25.51 0.5637	0.0256 0.0011	2.773 0.0118	97.50 5.562
Percent Moisture	Extracted:						
	Analyzed:	Apr-01-10 17:00	Apr-01-10 17:00	Apr-01-10 17:00	Apr-01-10 17:00	Apr-01-10 17:00	Apr-01-10 17:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		16.5 1.00	12.8 1.00	11.3 1.00	12.5 1.00	15.3 1.00	10.1 1.00
TPH By SW8015 Mod	Extracted:	Apr-01-10 14:00	Apr-01-10 14:00	Apr-01-10 14:00	Apr-01-10 14:00	Apr-01-10 14:00	Apr-01-10 14:00
	Analyzed:	Apr-01-10 19:07	Apr-01-10 19:34	Apr-01-10 20:01	Apr-01-10 20:28	Apr-01-10 20:55	Apr-01-10 21:23
	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		137 90.1	621 86.2	1870 84.6	102 17.1	611 17.8	3240 167
C12-C28 Diesel Range Hydrocarbons		475 90.1	1020 86.2	3340 84.6	308 17.1	2600 17.8	4290 167
C28-C35 Oil Range Hydrocarbons		111 90.1	90.6 86.2	225 84.6	21.0 17.1	180 17.8	334 167
Total TPH		723 90.1	1732 86.2	5435 84.6	431 17.1	3391 17.8	7864 167

Final Ver. 1.000

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Brent Barron, II Odessa Laboratory Manager

Released to Imaging: 3/28/2025 2:10:37 PM



Project Id: Legacy Reserves West

Certificate of Analysis Summary 367582 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



Received by OCD: 3/28/2025 2:09:37 PM

Project Location: Lea County, NM Analysis Requested Analysis Analysis Analysis Analysis	Lab Id: Field Id: Depth:			Report Date: 07-APR-10 Project Manager: Brent Barron. II	
2	Lab Id: ⁷ ield Id: Depth:	•		Project Manager: Brent Barron. II	
	Lab Id: 7ield Id: Depth:				
	Field Id: Depth:	367582-007	367582-008		
	Depth:	S. Middle @ 12'	S. Middle @ 15'		
			:		
	Matrix:	SOIL	SOIL		
	Sampled:	Mar-30-10 14:45	Mar-30-10 15:00		
An	Extracted:				
	Analyzed:	Apr-05-10 20:14	Apr-05-10 20:14		
Un	Units/RL:	mg/kg RL	mg/kg RL		
Chloride		3110 47.7	1700 23.5		
BTEX by EPA 8021B Ext	Extracted:	Apr-03-10 11:00	Apr-03-10 11:00		
Anc	Analyzed:	Apr-03-10 20:36	Apr-03-10 20:58		
Un	Units/RL:	mg/kg RL	mg/kg RL		
Benzene		ND 5.682	ND 5.605		
Toluene		ND 11.36	ND 11.21		
Ethylbenzene		43.07 5.682	26.68 5.605		
m,p-Xylenes		104.1 11.36	64.24 11.21		
o-Xylene		26.31 5.682	16.87 5.605		
Total Xylenes		130.4 5.682	81.11 5.605		
Total BTEX		173.5 5.682	107.79 5.605		
Percent Moisture Extr	Extracted:				
And	Analyzed:	Apr-01-10 17:00	Apr-01-10 17:00		
	Units/RL:	% RL	% RL		
Percent Moisture		12.0 1.00	10.8 1.00		
TPH By SW8015 Mod Extr	Extracted:	Apr-01-10 14:00	Apr-01-10 14:00		
Am	Analyzed:	Apr-01-10 21:50	Apr-01-10 22:46		
Uni	Units/RL:	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		3770 171	2680 168		
C12-C28 Diesel Range Hydrocarbons		5330 171	3770 168		
C28-C35 Oil Range Hydrocarbons		377 171	279 168		
Total TPH		9477 171	6729 168		

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 warrary to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Odessa Laboratory Manager

Brent Barron, II

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Flagging Criteria



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

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842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



Project Name: LR Chamberlain Tank Battery

Vork Orders : 367582 Lab Batch #: 800848	, Sample: 559729-1-BKS / B	BKS Batc		D: Legacy Re	serves Wes	t
Units: mg/kg	Date Analyzed: 04/01/10 10:27		RROGATE R		STUDY	·
	K 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		0.0272	0.0300	91	80-120	
Lab Batch #: 800848	Sample: 559729-1-BSD / B	SD Bate	h: ¹ Matrix	:Solid		
Units: mg/kg	Date Analyzed: 04/01/10 10:48	SU	RROGATE R	ECOVERY	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount B	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	······	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene		0.0270	0.0300	90	80-120	
Lab Batch #: 800848	Sample: 559729-1-BLK / E	BLK Batc	h: ¹ Matrix	:Solid		
Units: mg/kg	Date Analyzed: 04/01/10 11:51	SURROGATE RECOVERY STUDY				
BTE	X 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		0.0281	0.0300	94	80-120	
Lab Batch #: 800848	Sample: 367582-002 / SMF	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 04/01/10 18:02	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0173	0.0300	58	80-120	**
4-Bromofluorobenzene	·····	0.0204	0.0300	68	80-120	**
Lab Batch #: 800848	Sample: 367582-003 / SMP	P Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 04/01/10 18:43	SU	RROGATE RI	ECOVERY	STUDY	
втех	K by EPA 8021B Analytes	Amount Found [A]	True Amount {B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Anaiy U.S	0.0219	0.0300	73	80-120	**
4-Bromofluorobenzene	<u>.</u>	0.0232	0.0300	73	80-120	**
				I		

* 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



Project Name: LR Chamberlain Tank Battery

ork Orders:367582 Lab Batch #: 800848	, Sample: 367078-001 D / M	D Bate	•	D: Legacy Re Sludge	serves wes	L
Units: mg/kg	Date Analyzed: 04/01/10 21:09	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0235	0.0300	78	80-120	**
4-Bromofluorobenzene		0.0170	0.0300	57	80-120	**
Lab Batch #: 801040	Sample: 559843-1-BKS / B					
Units: mg/kg	Date Analyzed: 04/03/10 11:58	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X 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		0.0313	0.0300	104	80-120	
Lab Batch #: 801040	Sample: 559843-1-BSD / B	SD Bate	h l Matrix	r Solid	L	
Units: mg/kg	Date Analyzed: 04/03/10 12:21	BSD Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY				
		Amount	True	1	Control	
BTE2	X by EPA 8021B Analytes	Found [A]	Amount [B]	Recovery %R [D]	Limits %R	Flags
1,4-Difluorobenzene		0.0293	0.0300	98	80-120	
4-Bromofluorobenzene		0.0305	0.0300	102	80-120	
Lab Batch #: 801040	Sample: 559843-1-BLK / B		1	· Solid		· · ·
Units: mg/kg	Date Analyzed: 04/03/10 13:29		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	
4-Bromofluorobenzene		0.0315	0.0300	105	80-120	
Lab Batch #: 801040	Sample: 367582-005 / SMP	Bato	ch: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 04/03/10 19:06	SU	RROGATE R	ECOVERY S	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
1,4-Difluorobenzene		0.0221	0.0300	74	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

Project Name: LR Chamberlain Tank Battery

Vork Orders : 367582 Lab Batch #: 801040	, Sample: 367582-006 / SMP	Batc		D: Legacy Re	serves Wes	st
Units: mg/kg	Date Analyzed: 04/03/10 19:28		RROGATE RI		STUDY	
	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0227	0.0300	76	80-120	*
4-Bromofluorobenzene		0.0353	0.0300	118	80-120	
Lab Batch #: 801040	Sample: 367582-007 / SMP	Bate	h: ¹ Matrix:	Soil		
Units: mg/kg	Date Analyzed: 04/03/10 20:36	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0221	0.0300	74	80-120	*
4-Bromofluorobenzene		0.0357	0.0300	119	80-120	
Lab Batch #: 801040	Sample: 367582-008 / SMP	Batc	h: ¹ Matrix:	: Soil	I	L
Units: mg/kg	Date Analyzed: 04/03/10 20:58	SURROGATE RECOVERY STUDY				
BTE	X by EPA 8021B Analytes	Amount Found JAJ	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0227	0.0300	76	80-120	*
4-Bromofluorobenzene		0.0348	0.0300	116	80-120	
Lab Batch #: 801206	Sample: 559940-1-BKS / B	KS Batc	h: ¹ Matrix:	Solid		.
Units: mg/kg	Date Analyzed: 04/06/10 08:07	SU	RROGATE RI	ECOVERY	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	· · ·	0.0326	0.0300	109	80-120	
Lab Batch #: 801206	Sample: 559940-1-BSD / B	SD Batc	h: ¹ Matrix:	Solid		
Units: mg/kg	Date Analyzed: 04/06/10 08:29		RROGATE RI		STUDY	·····
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene		0.0327	0.0300	109	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

Project Name: LR Chamberlain Tank Battery

ork Orders : 367582			•	D: Legacy Re	serves Wes	ŧ
Lab Batch #: 801206 Units: mg/kg	Sample: 559940-1-BLK / B Date Analyzed: 04/06/10 10:21		ch: 1 Matrix		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0239	0.0300	80	80-120	
4-Bromofluorobenzene		0.0320	0.0300	107	80-120	
Lab Batch #: 801206	Sample: 367582-004 / SMP	Bate	ch: 1 Matrix	r:Soil		
Units: mg/kg	Date Analyzed: 04/06/10 11:51	su	JRROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes			1		
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0237	0.0300	79	80-120	**
		0.0862	0.0300	287	80-120	**
Lab Batch #: 801206	Sample: 367582-001 / SMP					
Units: mg/kg	Date Analyzed: 04/06/10 13:21	s	JRROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0233	0.0300	78	80-120	**
4-Bromofluorobenzene		0.0668	0.0300	223	80-120	**
Lab Batch #: 801206	Sample: 367432-001 D / MI	D Bat	ch: ¹ Matrix	: Soil		
Units: mg/kg	Date Analyzed: 04/06/10 14:52		JRROGATE R		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount {B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	•
4-Bromofluorobenzene		0.0499	0.0300	166	80-120	**
Lab Batch #: 800761	Sample: 559673-1-BKS / BI	KS Bate	ch: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 04/01/10 16:27	SU	JRROGATE R	ECOVERY S	STUDY	
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		116	101	115	70-135	L
o-Terphenyl			<u> </u>			

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: LR Chamberlain Tank Battery

Work Orders : 367582 Lab Batch #: 800761	2, Sample: 559673-1-BSD / B	SD Batc	•	D: Legacy Re	serves Wes	t
Units: mg/kg	Date Analyzed: 04/01/10 16:54		RROGATE RI		STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		124	100	124	70-135	
o-Terphenyl		58.4	50.2	116	70-135	
Lab Batch #: 800761	Sample: 559673-1-BLK / B	LK Bate	h: ¹ Matrix	:Solid		
Units: mg/kg	Date Analyzed: 04/01/10 17:20	SU	RROGATE RI	ECOVERY	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		129	99.8	129	70-135	
o-Terphenyl		64.2	49.9	129	70-135	
Lab Batch #: 800761	Sample: 367582-001 / SMP	Batc	h: ¹ Matrix:	Soil	L)	
Units: mg/kg	Date Analyzed: 04/01/10 19:07	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags
1-Chlorooctane		140	100	140	70-135	*
o-Terphenyl		73.0	50.2	145	70-135	*
Lab Batch #: 800761	Sample: 367582-002 / SMP	Bate	h: 1 Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 04/01/10 19:34	SU	RROGATE RI	ECOVERY S	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		137	100	137	70-135	*
o-Terphenyl		65.5	50.1	131	70-135	
Lab Batch #: 800761	Sample: 367582-003 / SMP	Bate	h: 1 Matrix:	: Soil		_
Units: mg/kg	Date Analyzed: 04/01/10 20:01	SU	RROGATE RI	ECOVERY S	STUDY	
TPH 1	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		64.7	50.0	120	70-135	
L						

* 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



Project Name: LR Chamberlain Tank Battery

Vork Orders : 367582	· ,		Project II	D: Legacy Re	serves Wes	st
Lab Batch #: 800761	Sample: 367582-004 / SMP	Batcl				
Units: mg/kg	Date Analyzed: 04/01/10 20:28	SU	RROGATE RI	COVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		121	99.5	122	70-135	
o-Terphenyl		60.0	49.8	120	70-135	
Lab Batch #: 800761	Sample: 367582-005 / SMP	Bate	h: ¹ Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 04/01/10 20:55	SU	RROGATE RI	ECOVERY S	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Anarytes	130	100	130	70-135	
o-Terphenyl		63.7	50.2	127	70-135	
Lab Batch #: 800761	Sample: 367582-006 / SMP	Bate	h: 1 Matrix:	Soil	LI	
Units: mg/kg	Date Analyzed: 04/01/10 21:23	SURROGATE RECOVERY STUDY				
ТРН	By SW8015 Mod Analytes	Amount True Control Found Amount Recovery Limits [A] [B] %R %R [D] [D] [D] [D]			Flags	
1-Chlorooctane		127	100	127	70-135	
o-Terphenyl		65.4	50.1	131	70-135	
Lab Batch #: 800761	Sample: 367582-007 / SMP	Bate	h: ¹ Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 04/01/10 21:50	SU	RROGATE RI	COVERY S	STUDY	
ТРҢ	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		64.0	50.3	127	70-135	
Lab Batch #: 800761	Sample: 367582-008 / SMP	Batel	h: 1 Matrix:	: Soil		h
Units: mg/kg	Date Analyzed: 04/01/10 22:46	SU	RROGATE RI	COVERY S	STUDY	
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		126	99.7	126	70-135	
o-Terphenyl		64.3	49.9	129	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



Blank Spike Recovery



Project Name: LR Chamberlain Tank Battery

Work Order #: 367582		Р	roject ID:	Leg	gacy Reserv	es West
Lab Batch #: 801122	Sample: 801122-	1-BKS	Matrix	: Solid		
Date Analyzed: 04/05/2010	Date Prepared: 04/05/20	010	Analyst	: LATCOR	ર	
Reporting Units: mg/kg	Batch #: 1	BLANK	BLANK SPI	KE REC	COVERY	STUDY
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	(B)	Result [C]	%R [D]	%R	
Chloride	ND	11.0	11.1	101	75-125	

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

3	

BS / BSD Recoveries



Project Name: LR Chamberlain Tank Battery

Work Order #: 367582 Analyst: ASA

Released to Imaging: 3/28/2025 2:10:37 PM

Lab Batch ID: 800848

Date Prepared: 04/01/2010 Batch #: 1

Sample: 559729-1-BKS

Project ID: Legacy Reserves West Date Analyzed: 04/01/2010 Matrix: Solid

Units: mg/kg		BLANI	K /BLANK S	SPIKE / B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE I	RECOVE	CRY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result I A I	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	<u>.</u>	[B]	[C]	a	[E]	Result [F]	[5]	2			
Benzene	Ð	0.1000	0.0961	96	0.1	0.1020	102	9	70-130	35	
Toluene	Ð	0.1000	0.0967	67	0.1	0.1028	103	6	70-130	35	
Ethylbenzene	Ð	0.1000	0.0985	66	0.1	0.1046	105	6	71-129	35	
m,p-Xylenes	Ð	0.2000	0.1999	100	0.2	0.2130	107	6	70-135	35	
o-Xylene	QN	0.1000	0.0985	66	0.1	0.1054	105	7	71-133	35	
Analyst: JLG	D	ate Prepare	Date Prepared: 04/03/2010	0			Date Ar	nalyzed: 0	Date Analyzed: 04/03/2010		
Lab Batch ID: 801040 Sample: 559843-1-BKS	43-1-BKS	Batch	Batch #: 1					Matrix: Solid	solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / E	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVE	ERY STUD	Y	

BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	Result [C]	%R [U]	E	Duplicate Result [F]	%R [G]	%	%К	%RPD	
Benzene	Ð	0.1000	0.0979	86	0.1	0.1045	105	7	70-130	35	
Toluene	Ð	0.1000	0.0952	95	0.1	0.1017	102	7	70-130	35	
Ethylbenzene	QN	0.1000	0.0970	97	0.1	0.1033	103	6	71-129	35	
m,p-Xylenes	Ð	0.2000	0.1922	96	0.2	0.2044	102	9	70-135	35	
o-Xylene	QN	0.1000	0960.0	96	0.1	0.1024	102	6	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 Final Ver. 1.000

XENCO Laboratories	Work Order #: 367582 Analyst: ASA Lab Batch ID: 801206	Units: mg/kg BTEX by EF	Analytes Benzene
Released to In	naging: 3/28/2	2025 2:10	:37 PM

BS / BSD Recoveries



	Project ID: Legacy Reserves West
LR Chamberlain Tank Battery	
Project Name:	

Date Prepared: 04/06/2010

Date Analyzed: 04/06/2010 Matrix: Solid

Lab Batch ID: 801206 Sample: 559940-1-BKS	BKS	Batch #:]	1#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / E	ILANK S	PIKE DUPI	ICATE	RECOVE	RY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	<u>[</u>	8	[c]	[0]	E]	Result [F]	[[[2			
Benzene	£	0.1000	0.0936	94	0.1	0.1011	101	8	70-130	35	
Toluene	Ð	0.1000	0.0915	92	0.1	0.0992	66	8	70-130	35	
Ethylbenzene	Ð	0.1000	0.0933	93	0.1	0.1010	101	8	71-129	35	
m.p-Xylenes	Ð	0.2000	0.1853	93	0.2	0.2007	100	8	70-135	35	
o-Xylene	ŊŊ	0.1000	0.0930	93	0.1	0.1013	101	6	71-133	35	
Analyst: BEV	Da	te Prepar	Date Prepared: 04/01/2010	0			Date A	Date Analyzed: 04/01/2010	4/01/2010		
Lab Batch ID: 800761 Sample: 559673-1-BKS	BKS	Batch #:	ı#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / F	SLANK S	PIKE DUPI	ICATE	RECOVE	ERY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike Peerdt	Blank Spike	Spike Added	Blank Spike Dunticate	Blk. Spk Dup. %D	RPD %	Control Limits %R	Control Limits %BPD	Flag
Analytes	[V]	B	[C]		[E]	Result [F]	[6]	R	M0/		

35 35

70-135 70-135

4 m

121 10

1210 1010

115 86

1160 985

1010 1010

Ð £

C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons

Analytes

1000 1000Ξ

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

Final Ver. 1.000

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Form 3 - MS Recoveries



Project Name: LR Chamberlain Tank Battery

Work Order #: 367582					
Lab Batch #: 801122		Pro	ject ID:	Legacy Res	serves Wes
Date Analyzed: 04/05/2010	Date Prepared: 04/05/2010	Α	nalyst: L	ATCOR	
QC- Sample ID: 367288-001 S	Batch #: 1	Ν	Aatrix: S	oil	
Reporting Units: mg/kg	MATRIX / M	IATRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Spike Result Addee		%R [D]	Control Limits %R	Flag
Analytes	[A] [B]		נען	761	
Chloride	1540 1290	2870	103	75-125	

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

BRL - Below Reporting Limit



Sample Duplicate Recovery



Page 32 of 111

Project Name: LR Chamberlain Tank Battery

Work	Order #:	367582

Lab Batch #: 801122 Date Analyzed: 04/05/2010 QC- Sample ID: 367288-001 D	Date Prepar Batch) Ana Mat	lyst:LATC trix: Soil		
Reporting Units: mg/kg Anions by E300		Parent Sample Result	SAMPLE Sample Duplicate	RPD	Control Limits	Flag
Analyte		[A]	Result [B]		%RPD	
Chloride		1540	1540	0	20	
Lab Batch #: 800848			<u> </u>	1		
Date Analyzed: 04/01/2010	Date Prepar	ed: 04/01/2010) Ana	lyst:ASA		
QC- Sample ID: 367078-001 D	Batch	#: 1	Ma	trix: Sludg	e	
Reporting Units: mg/kg		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
BTEX by EPA 8021B Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Benzene		0.0028	0.0022	24	35	
Toluene		0.0057	0.0054	5	35	
Ethylbenzene		0.0021	0.0066	103	35	F
m,p-Xylenes		0.0033	0.0050	41	35	F
o-Xylene		0.0011	0.0066	143	35	F
a,a,a-Trifluorotoluene	*****	0.030	0.030	0	35	
Lab Batch #: 801206 Date Analyzed: 04/06/2010 QC- Sample ID: 367432-001 D	Date Prepar Batch		Ma	lyst: ASA trix: Soil		
Reporting Units: mg/kg		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
BTEX by EPA 8021B Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Benzene		ND	ND	NC	35	
Toluene	·····	ND	ND	NC	35	
Ethylbenzene		0.0025	0.0015	50	35	F
m,p-Xylenes		0.0099	0.0057	54	35	F
o-Xylene		0.0067	0.0034	65	35	F
a,a,a-Trifluorotoluene		0.032	0.032	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



Sample Duplicate Recovery

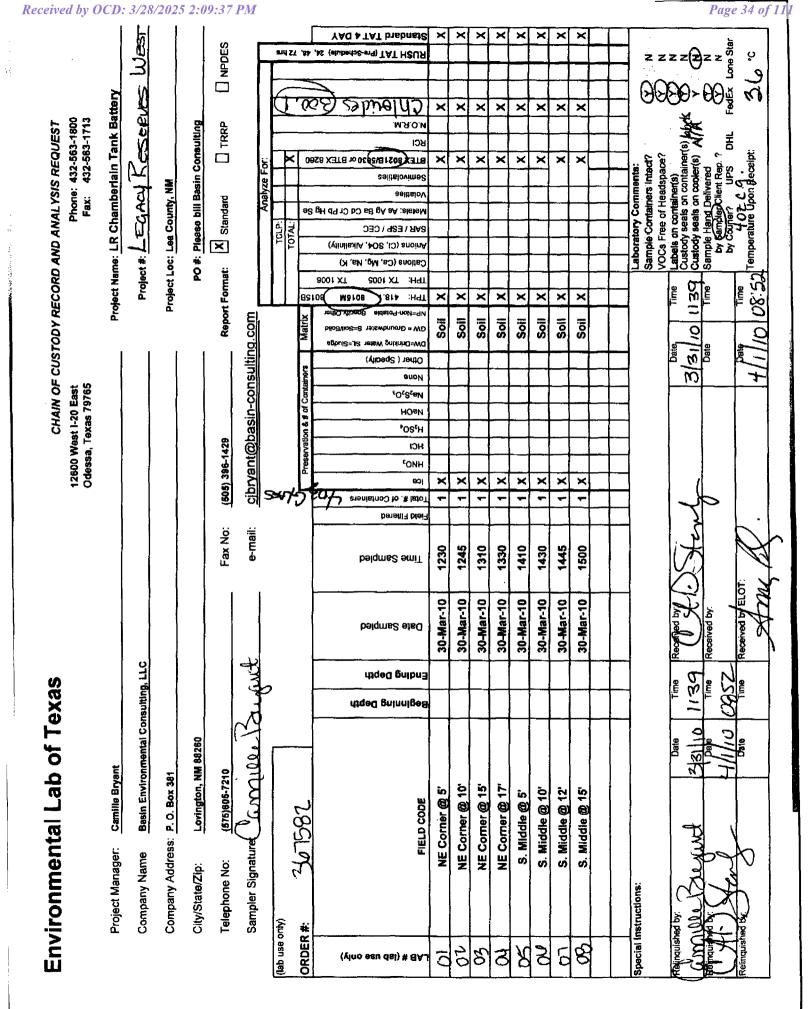


Project Name: LR Chamberlain Tank Battery

Work Order #: 367582

Lab Batch #: Date Analyzed: QC- Sample ID:	04/01/2010	Date Prepar Batcl	ed:04/01/2010) Ana	Project I Iyst: JLG trix: Soil	D: Legacy F	Reserves West
Reporting Units:	%		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
	Percent Moisture		Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
	Analyte			[B]			
Percent Moisture			16.0	16.0	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



Appendix B Analytical Reports

Released to Imaging: 3/28/2025 2:10:37 PM

Depth below	e	- (%)(1); (1)	1 - 1 - 2 - 1 - b		So	il Boring SB-1	<u>, nga kati ya na poka na pisa kati na p</u> oke
ground	Soil	Chloride	PID	Petroleum	Petroleum		Boring SB-1
surface		Field Test R	eading	Odor	<u>Stain</u>	Soil Description	Date DrilledJune 29, 2010
1 1 1 1 1		(2,040)	6.3	Slight	Slight	0-10' - Caliche, tan, minor clay, dry	Thickness of Bentonite Seal <u>30 Ft</u> Depth of Exploratory Boring <u>30 Ft bgs</u> Depth to Groundwater Ground Water Elevation
Ē	183	\sim	\sim	None	None		
- 10 - 10 - 15		(1,788)	4.8 15.8	None	None		Indicates the PSH level measured on Indicates the groundwater level measured on
Ē		\smile		None	None	10-30' - Sand, tan, fine grained, minor sandstone	Indicates samples selected for Laboratory Analysis.
- 20		(280)	2.2			nodules, dry	PID Head-space reading in ppm obtained with a photo-ionization detector.
-25			3.3	None	None		
F	83	_	_	None	None		
E_30	199		6.1				

Completion Notes

1.) The monitor well was advanced on date using air rotary drilling techniques.

 The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.

Soil Boring SB-1 Ch

Legacy Reserves Chamberlain Tank Battery Lea County, New Mexico

Basin Environmental Consulting

Prep By: JWL				Checked By: CJB								
July 7, 2010												
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Appendices

Released to Imaging: 3/28/2025 2:10:37 PM

Received by OCD: 3/28/2025 2:09:37 PM

Appendix A Soil Boring Logs

Released to Imaging: 3/28/2025 2:10:37 PM

					METHC	DD: EPA SW	METHOD: EPA SW 846-8021B, 5030	5030			SW 84	SW 846-8015M		300.1
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O- XYLENE (mg/Kg)	TOTAL GRO BTEX C ₆ C ₁₂ (mg/Kg) (mg/Kg)	GRO C ₆ C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NE Corner @ 5'	5 Feet	03/30/10	In-Situ	<0.0012	<0.0024	0.0077	0.0257	0.0222	0.0556	137	475	111	723	1,420
NE Corner @ 10'	10 Feet	03/30/10	In-Situ	<0.1147	<0.2294	0.7867	2.546	0.1846	3.517	621	1,020	90.6	1,731.6	867
NE Corner @ 15'	15 Feet	03/30/10	In-Situ	<0.5637	<1.127	8.455	11.23	5.829	25.5	1,870	3,340	225	5,435	624
NE Corner @ 17'	17 Feet	03/30/10	In-Situ	<0.0011	<0.0023	0.0035	0.0142	0.0079	0.0256	102	308	21.0	431	755
S. Middle @ 5'	5 Feet	03/30/10	In-Situ	<0.0118	0.0281	0.4166	1.366	0.9622	2.773	611	2,600	180	3,391	2,790
S. Middle @ 10'	10 Feet	03/30/10	In-Situ	<5.562	<11.12	32.48	54.84	10.18	97.5	3,240	4,290	334	7,864	1,680
S. Middle @ 12'	12 Feet	03/30/10	In-Situ	<5.682	<11.36	43.07	104.1	26.31	173.5	3,770	5,330	377	9,477	3,110
S. Middle @ 15'	15 Feet	03/30/10	In-Situ	<5.605	<11.21	26.68	64.24	16.87	107.79	2,680	3,770	279	6,729	1,700
T-1 Sample 1 @ 2'	2 Feet	04/28/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	1,180
⁻ -1 Sample 1 @ 7'	7 Feet	04/28/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.7	<17.7	<17.7	<17.7	976
Sample 1 @ 15'	15 Feet	04/28/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<17.0	<17.0	<17.0	<17.0	317
T-1 Sample 1 @ 17'	17 Feet	04/28/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	144
Sample 2 @ 2'	2 Feet	04/28/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	530
F-1 Sample 2 @ 5'	5 Feet	04/28/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	387
Sample 3 @ 2'	2 Feet	04/28/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	218
Sample 3 @ 5'	5 Feet	04/28/10	In-Situ	<0.0012	<0.0025	<0.0012	<0.0025	<0.0012	<0.0025	<18.3	<18.3	<18.3	<18.3	428
T-1 Sample 4 @ 2'	2 Feet	04/28/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.0	<16.0	<16.0	<16.0	23.2
Sample 4 @ 5'	5 Feet	04/28/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.8	<16.8	<16.8	<16.8	1,460
T-1 Sample 5 @ 2'	2 Feet	04/30/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	88.1	25.4	113.5	14.1
T-1 Sample 5 @ 3'	3 Feet	04/30/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.8	129	51.6	180.6	8.95
T-2 Sample 1 @ 2'	2 Feet	04/28/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.3	<17.3	<17.3	<17.3	837
0	7 Feet	04/28/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.2	<18.2	<18.2	<18.2	818
r-2 Sample 1 @ 12'	12 Feet	04/28/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	250
Sample 1 @ 13'	13 Feet	04/28/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.1	<16.1	<16.1	<16.1	228
T-2 Sample 2 @ 2'	2 Feet	04/28/10	In-Situ	<0.0012	<0.0025	<0.0012	<0.0025	<0.0012	<0.0025	<18.3	<18.3	<18.3	<18.3	820
Sample 2 @ 5'	5 Feet	04/28/10	In-Situ	<0.0013	<0.0025	<0.0013	<0.0025	<0.0013	<0.0025	<18.9	<18.9	<18.9	<18.9	553
2 Sample 3 @ 2'	2 Feet	04/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	184
0	5 Feet	04/29/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.2	<18.2	<18.2	<18.2	66.3
_3 Samula 1 @ 2'		01/00/10		F F C C C	0000									

TABLE 1

LEGACY RESERVES, LP LR CHAMBERLAIN TANK BATTERY LEA COUNTY, NEW MEXICO NMOCD # 1RP-2390

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CONCENTRATIONS OF BTEX, TPH AND CHLORIDES IN SOIL

LEGACY RESERVES, LP LR CHAMBERLAIN TANK BATTERY LEA COUNTY, NEW MEXICO NMOCD # 1RP-2390

					METHC	METHOD: EPA SW 846-8021B,	846-8021B, {	5030			SW 84	SW 846-8015M		300.1
SAMPLE LOCATION	SAMPLE DEPTH (Below Grade Surface)	SAMPLE DATE	SOIL	BENZENE TOLUENE (mg/Kg) (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	M,P- XYLENE (mg/Kg)	O- XYLENE (mg/Kg)	TOTAL GRO BTEX C ₆ C ₁₂ (mg/Kg) (mg/Kg)	GRO C ₆ C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
T-3 Sample 1 @ 5'	5 Feet	04/29/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.0	<17.0	<17.0	<17.0	135
T-3 Sample 1 @ 7'	7 Feet	04/29/10	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<17.4	<17.4	<17.4	<17.4	117
T-3 Sample 2 @ 5'	5 Feet	04/29/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.8	<17.8	<17.8	<17.8	784
T-3 Sample 3 @ 5'	5 Feet	04/29/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.9	<16.9	<16.9	<16.9	981
T-3 Sample 4 @ 2'	2 Feet	04/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	71.6
T-3 Sample 4 @ 5'	5 Feet	04/29/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	84.3
T-4 Sample 1 @ 1.5'	1.5 Feet	04/29/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	<15.8	<15.8	<15.8	699
T-4 Sample 2 @ 1.5'	1.5 Feet	04/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.4	<16.4	<16.4	<16.4	885
T-4 Sample 3 @ 2'	2 Feet	04/29/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.1	<17.1	<17.1	<17.1	67.6
T-4 Sample 3 @ 3'	3 Feet	04/29/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.0	<18.0	<18.0	<18.0	123
T-5 Sample 1 @ 2'	2 Feet	04/29/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<18.1	<18.1	<18.1	<18.1	2,870
T-5 Sample 1 @ 3.5'	3.5 Feet	04/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.6	<16.6	<16.6	<16.6	1,550
T-5 Sample 2 @ 2'	2 Feet	04/29/10	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<17.5	<17.5	<17.5	<17.5	66.4
		×												
SB-1 @ 5'	5 Feet	06/29/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<17.2	51.9	<17.2	51.9	2,170
SB-1 @ 10'	10 Feet	06/29/10	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<16.8	<16.8	<16.8	<16.8	1,250
SB-1 @ 15'	15 Feet	06/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.7	<16.7	<16.7	<16.7	778
SB-1 @ 20'	20 Feet	06/29/10	In-Situ	<0.0010	<0.0021	<0.0010	<0.0021	<0.0010	<0.0021	<15.8	<15.8	<15.8	<15.8	169
SB-1 @ 25'	25 Feet	06/29/10	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<16.1	<16.1	<16.1	<16.1	72.7
SB-1 @ 30'	30 Feet	06/29/10	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0021	<15.8	26.3	<15.8	26.3	103
	- -					,							-	
NMOCD Regulatory Standard	lard			10					50				100	250

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Environmental Lab of Texas

and the state of the

Variance/ Corrective Action Report- Sample Log-in

lient: 08:52 _____ late/ Time: 367582 ab ID # : nitials:

2/28/2025 2.00.27.DM

Sample Receipt Checklist

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

Variance Documentation

Contact:

Contacted by:

Date/ Time:

Regarding:

Corrective Action Taken:

Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event Page 41 of 111

Analytical Report 371873

for

Basin Environmental Consulting, LLC

Project Manager: Camille Bryant

LR Chamberlain Tank Battery

14-MAY-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)



14-MAY-10



Project Manager: **Camille Bryant Basin Environmental Consulting, LLC** P.O. Box 381 Lovington, NM 88260

Reference: XENCO Report No: 371873 LR Chamberlain Tank Battery Project Address: Lea County, NM

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 371873. 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. 371873 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 371873

2.98 8.20



Basin Environmental Consulting, LLC, Lovington, NM

LR Chamberlain Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 Sample 1 @ 2'	S	Apr-28-10 08:00		371873-001
T-1 Sample 1 @ 7'	S	Apr-28-10 08:20		371873-002
T-1 Sample 1 @ 15'	S	Apr-28-10 08:40		371873-003
T-1 Sample 1 @ 17'	S	Apr-28-10 09:00		371873-004
T-1 Sample 2 @ 2'	S	Apr-28-10 09:40		371873-005
T-1 Sample 2 @ 5'	S	Apr-28-10 10:00		371873-006
T-1 Sample 3 @ 2'	S	Apr-28-10 10:40		371873-007
T-1 Sample 3 @ 5'	S	Apr-28-10 11:00		371873-008
T-1 Sample 4 @ 2'	S	Apr-28-10 11:20		371873-009
T-1 Sample 4 @ 5'	S	Apr-28-10 11:40		371873-010
T-1 Sample 5 @ 2'	S	Apr-30-10 11:00		371873-011
T-1 Sample 5 @ 3'	S	Apr-30-10 11:30		371873-012
T-2 Sample 1 @ 2'	S	Apr-28-10 12:00		371873-013
T-2 Sample 1 @ 7'	S	Apr-28-10 12:30		371873-014
T-2 Sample 1 @ 12'	S	Apr-28-10 13:00		371873-015
T-2 Sample 1 @ 13'	S	Apr-28-10 13:20		371873-016
T-2 Sample 2 @ 2'	S	Apr-28-10 14:20		371873-017
T-2 Sample 2 @ 5'	S	Apr-28-10 14:40		371873-018
T-2 Sample 3 @ 2'	S	Apr-29-10 08:00		371873-019
T-2 Sample 3 @ 5'	S	Apr-29-10 08:30		371873-020
T-3 Sample 1 @ 2'	S	Apr-29-10 09:00		371873-021
T-3 Sample 1 @ 5'	S	Apr-29-10 09:20		371873-022
T-3 Sample 1 @ 7'	S	Apr-29-10 09:40		371873-023
T-3 Sample 2 @ 5'	S	Apr-29-10 10:00		371873-024
T-3 Sample 3 @ 5'	S	Apr-29-10 11:00		371873-025
T-3 Sample 4 @ 2'	S	Apr-29-10 12:00		371873-026
T-3 Sample 4 @ 5'	S	Apr-29-10 12:20		371873-027
T-4 Sample 1 @ 1.5'	S	Apr-29-10 13:00		371873-028
T-4 Sample 2 @ 1.5'	S	Apr-29-10 13:30		371873-029
T-4 Sample 3 @ 2'	S	Apr-29-10 14:00		371873-030
T-4 Sample 3 @ 3'	S	Apr-29-10 14:20		371873-031
T-5 Sample 1 @ 2'	S	Apr-29-10 14:40		371873-032
T-5 Sample 1 @ 3.5'	S	Apr-29-10 15:00		371873-033
T-5 Sample 2 @ 2'	S	Apr-29-10 15:30		371873-034

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID: Work Order Number: 371873 Report Date: 14-MAY-10 Date Received: 05/06/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-805736 TPH By SW8015 Mod None

Batch: LBA-805744 Percent Moisture None

Batch: LBA-805751 Percent Moisture None

Batch: LBA-805752 TPH By SW8015 Mod SW8015MOD_NM

Batch 805752, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 371873-025, -030, -032, -026, -028, -033, -021, -023, -024, -027, -029, -034, -031, -022. The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID: Work Order Number: 371873 Report Date: 14-MAY-10 Date Received: 05/06/2010

Batch: LBA-805828 BTEX by EPA 8021B SW8021BM

Batch 805828, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, Toluene, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 371873-007, -015, -002, -016, -004, -008, -011, -017, -018, -013, -001, -003, -010, -014, -020, -006, -009, -012, -005, -019.

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

SW8021BM

Batch 805828, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 371873-012,371873-011.

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID: Work Order Number: 371873 Report Date: 14-MAY-10 Date Received: 05/06/2010

Batch: LBA-805963 BTEX by EPA 8021B SW8021BM

Batch 805963, 1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; QC data not confirmed by re-analysis Samples affected are: 371873-021 S.

SW8021BM

Batch 805963, Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 371873-025, -030, -032, -026, -028, -033, -021, -023, -024, -027, -029, -034, -031, -022.

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

SW8021BM

Batch 805963, o-Xylene RPD was outside QC limits. Samples affected are: 371873-025, -030, -032, -026, -028, -033, -021, -023, -024, -027, -029, -034, -031, -022

Batch: LBA-806338 Inorganic Anions by EPA 300 None

Batch: LBA-806340 Inorganic Anions by EPA 300 None



Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



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Contact: Camille Bryant						mid on on an analysis nil I	hu
Project Location: Lea County, NM					Report Date:	14-MAY-10	
					Project Manager:	Brent Barron, II	
	Lab Id:	371873-001	371873-002	371873-003	371873-004	371873-005	371873-006
	Etald 14.	T 1 Somula 1 @ 2'	T_l Sample 1 @ 7	T_l Samala 1 @ 15'	T 1 Somula 1 @ 17	T 1 Semula 7 @ 2'	T 1 Somula 7 @ SI
Analysis Requested	r teta 1a: Depth:	1-1 Jaunpic 1 (mg 2	1 SALIDATION 1-1		11 fair addings 1-1	- 1 January 2 Julius - 1	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-28-10 08:00	Apr-28-10 08:20	Apr-28-10 08:40	Apr-28-10 09:00	Apr-28-10 09:40	Apr-28-10 10:00
Anions by E300	Extracted:						
	Analyzed:	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1180 19.3	976 49.5	317 9.48	144 4.70	530 9.55	387 19.2
BTEX by EPA 8021B	Extracted:	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30
	Analyzed:	May-08-10 18:01	May-08-10 18:24	May-08-10 18:46	May-08-10 19:08	May-08-10 19:31	May-08-10 19:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Toluene		ND 0.0023	ND 0.0024	ND 0.0022	ND 0.0022	ND 0.0023	ND 0.0023
Ethylbenzene		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
m,p-Xylencs		ND 0.0023	ND 0.0024	ND 0.0022	ND 0.0022	ND 0.0023	ND 0.0023
o-Xylene		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total Xylenes		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total BTEX		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	1100.0 UN
Percent Moisture	Extracted:						
	Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		13.0 1.00	15.1 1.00	11.4 1.00	10.6 1.00	12.0 1.00	12.3 1.00
TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15
	Analyzed:	May-07-10 18:14	May-07-10 18:41	May-07-10 19:08	May-07-10 19:35	May-07-10 20:02	May-07-10 20:29
	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 17.3	ND 17.7	ND 17.0	ND 16.7	ND 17.1	ND 17.1
C12-C28 Diesel Range Hydrocarbons		ND 17.3	ND 17.7	ND 17.0	ND 16.7	ND 17.1	ND 17.1
C28-C35 Oil Range Hydrocarbons		ND 17.3	ND 17.7	ND 17.0	ND 16.7	ND 17.1	1.71 UN
Total TPH		ND 17.3	ND 17.7	ND 17.0	ND 16.7	ND 17.1	ND 17.1

Odessa Laboratory Manager Brent Barron, II

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Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



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Contact: Camille Bryant Project Location: Lea County, NM				Dal	Date Received in Lab:	1 nu May-00-10 US:US	hm
Project Location: Lea County, NM							
3					Report Date:]	14-MAY-10	
					Project Manager: I	Brent Barron, II	
	Lab Id:	371873-007	371873-008	371873-009	371873-010	371873-011	371873-012
[Q	Field Id:	T-1 Sample 3 @ 2'	T-1 Sample 3 @ 5'	T-1 Sample 4 @ 2'	T-1 Sample 4 @ 5'	T-1 Sample 5 @ 2'	T-1 Sample 5 @ 3'
Anaiysis Kequestea	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-28-10 10:40	Apr-28-10 11:00	Apr-28-10 11:20	Apr-28-10 11:40	Apr-30-10 11:00	Apr-30-10 11:30
Anions by E300	Extracted:						
	Analyzed:	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride	 	218 9.71	428 10.3	23.2 4.49	1460 23.6	14.1 4.77	8.95 4.71
BTEX by EPA 8021B	Extracted:	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30
	Analyzed:	May-08-10 20:16	May-08-10 20:38	May-08-10 21:01	May-08-10 21:23	May-08-10 22:30	May-08-10 22:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0012	ND 0.0012	1100.0 UN	ND 0.0011	ND 0.0011	ND 0.0011
Toluene		ND 0.0023	NID 0.0025	ND 0.0022	ND 0.0023	ND 0.0023	ND 0.0022
Ethylbenzene		ND 0.0012	ND 0.0012	ND 0.0011	1100.0 CIN	ND 0.0011	ND 0.0011
m,p-Xylenes		ND 0.0023	NID 0.0025	ND 0.0022	ND 0.0023	ND 0.0023	ND 0.0022
o-Xylene		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total Xylencs		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Total BTEX		ND 0.0012	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0011	1100.0 GN
Percent Moisture	Extracted:						
	Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		13.5 1.00	18.2 1.00	6.43 1.00	11.1 1.00	12.0 1.00	10.9 1.00
TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15
	Analyzed:	May-07-10 20:56	May-07-10 21:23	May-07-10 21:50	May-07-10 22:16	May-07-10 23:11	May-07-10 23:38
	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 17.4	ND 18.3	ND 16.0	ND 16.8	ND 17.0	ND 16.8
C12-C28 Diesel Range Hydrocarbons		ND 17.4	ND 18.3	ND 16.0	ND 16.8	88.1 17.0	129 16.8
C28-C35 Oil Range Hydrocarbons		ND 17.4	ND 18.3	ND 16.0	ND 16.8	25.4 17.0	51.6 16.8
Total TPH		ND 17.4	ND 18.3	ND 16.0	ND 16.8	113.5 17.0	181 16.8

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

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Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



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Anions by E300 Anions by E300 <t< th=""><th></th><th></th><th>5</th><th></th><th>, D</th><th>Data Docaivad in Lahi</th><th>Thu Max-06-10.05:08 ud</th><th></th></t<>			5		, D	Data Docaivad in Lahi	Thu Max-06-10.05:08 ud		
Project Namage: Both Barton, II Lad Id 371873-015 371873-016 371873-017 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-016 371873-017 371873-017 371873-017 371873-017 371873-017 371873-01120 <th< th=""><th>Contact: Camille Bryant</th><th></th><th></th><th></th><th></th><th></th><th>A MAY 10</th><th>hur</th></th<>	Contact: Camille Bryant						A MAY 10	hur	
Indication Table is	Project Location: Lea County, NM						4-ivLA I - 10 Brent Barron II		
Indubicis Requested Depti Field Ri- band $7.58mpb 1 (g) 7$ $7.58mpb 1 (g) 7$ $7.58mpb 1 (g) 7$ $7.58mpb 2 (g) 7$ $7.58mp 2 (g) 7$		Lab Id:	371873-013	371873-014	371873-015		371873-017	371873-018	
Industrik Requerated Depti. SOIL Apr.28-1013.20 Apr.		Field Id-	T-2 Sample 1 @ 2'	T-2 Samle 1 @ 7	T.2 Sample 1 @ 12'	T-2 Sample 1 @ 13'	T_7 Sample 2 @ 2	T-2 Samile 2 @ 5'	
	Analysis Requested	Depth:							
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Ations by E 300 Extracted Indicati May-12-10 10.32 May-12-10 10.32 May-12-10 11.30 May-12-10 11.30 May-12-10 11.30 May-98-10 10.32 May-98-10		Sampled:	Apr-28-10 12:00	Apr-28-10 12:30	Apr-28-10 13:00	Apr-28-10 13:20	Apr-28-10 14:20	Apr-28-10 14:40	
	Anions by E300	Extracted:							
		Analyzed:	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	May-12-10 10:32	
		Units/RL:						mg/kg RL	
BTEX by EPA 801B Extracate May 08-1011:30 May 08-100 1 maty 5x diate 1 maty 5x diate 1 mg/g <t< th=""><th>Chloride</th><th></th><th></th><th>8</th><th>0</th><th>œ</th><th></th><th>553 52.8</th></t<>	Chloride			8	0	œ		553 52.8	
	BTEX by EPA 8021B	Extracted:	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	May-08-10 11:30	
		Analyzed:	May-08-10 23:15	May-08-10 23:38	May-09-10 00:00	May-09-10 00:22	May-09-10 00:44	May-09-10 01:06	
		Units/RL:						mg/kg RL	
	Benzene		ND 0.0012					ND 0.0013	
me ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND ss ND 0.0023 ND 0.0024 ND 0.0021 ND 0.0025 ND as ND 0.0012	Toluene		ND 0.0023					ND 0.0025	
(a) (b) (c) (c) <th>Ethylbenzene</th> <th></th> <th>ND 0.0012</th> <th>ş.</th> <th></th> <th></th> <th></th> <th>ND 0.0013</th>	Ethylbenzene		ND 0.0012	ş.				ND 0.0013	
	m,p-Xylenes						!	ND 0.0025	
mes ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND X ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND X Fercent Moisture Extracted. ND 0.0012 ND 0.0011 ND 0.0012 ND Fercent Moisture Extracted. May-07-1017:00 May-07-1017:01 May-07-1017:00 May-07-1017:01 May-07-1017:01	o-Xylene		ND 0.0012					ND 0.0013	
X ND 0.0012 ND 0.0011 ND 0.0011 ND 0.0012 ND Percent Moisture $Extracted$: May -07-1017:00 May -07-1012:00	Total Xylenes							ND 0.0013	
Percent Moisture Extracted: Analyzed: May-07-10 17:00 May-07-10 13:15 May-07-10 13:15 <th>Total BTEX</th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th></th> <th>ND 0.0013</th>	Total BTEX				1			ND 0.0013	
	Percent Moisture	Extracted:	i.	-			-		
		Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	
13.8 1.00 7.46 1.00 18.2 1.00 TPH By SW8015 Mod Extracted: May-07-10 13.15 May-07-10 13.15 1.00 182 1.00 TPH By SW8015 Mod Extracted: May-07-10 13:15 May-07-10 May-07-10 13:15 May-07-10 13:15 May-07-10 13:15 May-07-10 May-07-10 13:15 May-07-10 13:15 May-07-10 May-07-10 13:15 May-07-10 May-07-10 13:15 May-07-10 May-07-10 May-07-10 13:15 May-07-10 13:15 May-07-10 <th cols<="" th=""><th></th><th>Units/RL:</th><th></th><th></th><th></th><th></th><th></th><th>% RL</th></th>	<th></th> <th>Units/RL:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>% RL</th>		Units/RL:						% RL
TPH By SW8015 Mod Extracted: May-07-1013:15 May-07-	Percent Moisture							20.5 1.00	
	TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	
Unit/RL: mg/kg RL mg/kg		Analyzed:	May-08-10 00:05	May-08-10 00:32	May-08-10 00:59	May-08-10 01:26	May-08-10 01:53	May-08-10 02:20	
asoline Range Hydrocarbons ND 17.3 ND 18.2 ND 16.1 ND 16.1 ND 18.3 ND 18.3 ND 18.3 ND 18.1 ND 18.1 ND 18.3 ND 18.3 ND 18.1 ND 18.1 ND 18.3 ND 18.1 ND 18.3 ND 18.3 ND 18.1 ND 18.3 ND 18.3 ND 18.1 ND 18.3 ND <th></th> <th>Units/RL:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>mg/kg RL</th>		Units/RL:						mg/kg RL	
Disel Range Hydrocarbons NID 17.3 NID 18.2 NID 16.1 NID 18.3 NID 18.2 NID 16.1 NID 18.3 NID 18.3 NID 18.3 NID 18.3 NID 18.3 NID 18.3 NID 18.1 NID 18.1 NID 18.3 NID 18.3 NID 18.1 NID 16.1 NID 18.3 NID 18.3 NID 18.3 NID 16.1 NID 16.1 NID 18.3 NID 18.1 NID 18.3 NID	C6-C12 Gasoline Range Hydrocarbons							ND 18.9	
Dil Range Hydrocarbons ND 17.3 ND 18.2 ND 16.1 ND 18.3 ND 17.3 ND 18.2 ND 16.1 ND 18.3	C12-C28 Diesel Range Hydrocarbons							ND 18.9	
ND 17.3 ND 18.2 ND 16.1 ND 16.1 ND 18.3	C28-C35 Oil Range Hydrocarbons							ND 18.9	
	Total TPH		ND 17.3	ND 18.2	ND 16.1	ND 16.1	ND 18.3	ND 18.9	

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Odessa Laboratory Manager

Brent Barron, II



Released to Imaging: 3/28/2025 2:10:37 PM

Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



Received by OCD: 3/28/2025 2:09:37 PM

Contact: Camille Bryant Project Location: Lea County, NM				Dat	Date Received in Lab:	I nu iviay-uo-i u usi un l	шd
Project Location: Lea County, NM							
					Report Date:	14-MAY-10	
					Project Manager: 1	Brent Barron, II	
	Lab Id:	371873-019	371873-020	371873-021	371873-022	371873-023	371873-024
Auchinic Domondad	Field Id:	T-2 Sample 3 @ 2'	T-2 Sample 3 @ 5'	T-3 Sample 1 @ 2'	T-3 Sample 1 @ 5'	T-3 Sample 1 @ 7	T-3 Sample 2 @ 5'
paranta veguesea	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Apr-29-10 08:00	Apr-29-10 08:30	Apr-29-10 09:00	Apr-29-10 09:20	Apr-29-10 09:40	Apr-29-10 10:00
Anions by E300	Extracted:						
	Analyzed:	May-12-10 10:32	May-12-10 10:32	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		184 9.22	66.3 5.08	497 9.44	135 9.52	117 9.70	784 20.0
BTEX by EPA 8021B	Extracted:	May-08-10 11:30	May-08-10 11:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30
	Analyzed:	May-09-10 01:28	May-09-10 01:51	May-10-10 15:23	May-10-10 15:44	May-10-10 16:04	May-10-10 16:25
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0011	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0012	ND 0.0012
Toluene		ND 0.0022	ND 0.0024	ND 0.0022	ND 0.0023	ND 0.0023	ND 0.0024
Ethylbenzene		ND 0.0011	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0012	ND 0.0012
m,p-Xylenes		ND 0.0022	ND 0.0024	ND 0.0022	ND 0.0023	ND 0.0023	ND 0.0024
o-Xylene		ND 0.0011	ND 0.0012	ND 0.0011	1100.0 UN	ND 0.0012	ND 0.0012
Total Xylenes		ND 0.0011	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0012	ND 0.0012
Total BTEX		ND 0.0011	ND 0.0012	ND 0.0011	ND 0.0011	ND 0.0012	ND 0.0012
Percent Moisture	Extracted:						
	Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		8.85 1.00	17.4 1.00	11.0 1.00	11.8 1.00	13.4 1.00	15.8 1.00
TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15
	Analyzed:	May-08-10 02:48	May-08-10 03:15	May-07-10 22:16	May-07-10 22:46	May-07-10 23:15	May-07-10 23:44
	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 16.4	ND 18.2	ND 16.9	ND 17.0	ND 17.4	ND 17.8
C12-C28 Diesel Range Hydrocarbons		ND 16.4	ND 18.2	ND 16.9	ND 17.0	ND 17.4	ND 17.8
C28-C35 Oil Range Hydrocarbons		ND 16.4	ND 18.2	ND 16.9	ND 17.0	ND 17.4	ND 17.8
Total TPH		ND 16.4	ND 18.2	ND 16.9	ND 17.0	ND 17.4	ND 17.8

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Brent Barron, II Odessa Laboratory Manager

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Page 10 of 43



Contact: Camille Bryant

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Project Id:

Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



Thu May-06-10 05:08 pm	
Date Received in Lab:	

Project Manager: Blacen, II Prior II Daptit: 71873-025 371873-025 371873-028 371873-028 371873-029 371873-029 371873-029 371873-029 371873-029 371873-029 371873-028 371873-028 371873-029 371873-029 371873-029 371873-028 371873-029 37183-010133 37183 3	Project Location: Lea County, NM					Report Date: 14-MAY-10	14-MAY-10	
Lub /ds Jub /ds 371873-035 371873-035 371873-036 3718 37							Brent Barron, II	
Hardysis Requested Field IA: Dayn: Anions by E300 Field IA: Example (%) $1.3 \text{smaple } 4 \% 2$ $1.3 \text{smaple } 4 \% 2$ $1.4 \text{smaple } 2 \% 1$ 2.0LL $2.0 $		Lab Id:	371873-025	371873-026	371873-027	371873-028	371873-029	371873-030
Days Days <thdays< th=""> Days Days <thd< th=""><th>Andheis Domostad</th><th>Field Id:</th><th>T-3 Sample 3 @ 5'</th><th>T-3 Sample 4 @ 2'</th><th>T-3 Sample 4 @ 5'</th><th>T-4 Sample 1 @ 1.5'</th><th>T-4 Sample 2 @ 1.5'</th><th>T-4 Sample 3 @ 2'</th></thd<></thdays<>	Andheis Domostad	Field Id:	T-3 Sample 3 @ 5'	T-3 Sample 4 @ 2'	T-3 Sample 4 @ 5'	T-4 Sample 1 @ 1.5'	T-4 Sample 2 @ 1.5'	T-4 Sample 3 @ 2'
	naisanhay sistimut	Depth:						
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Ations by E300 Extracted. Indices May-12-10 19-30 May-12-		Sampled:	Apr-29-10 11:00	Apr-29-10 12:00	Apr-29-10 12:20	Apr-29-10 13:00	Apr-29-10 13:30	Apr-29-10 14:00
	Anions by E300	Extracted:						
		Analyzed:	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30
		Units/RL:						mg/kg RL
	Chloride							67.6 9.61
	BTEX by EPA 8021B	Extracted:	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30
		Analyzed:	May-10-10 16:45	May-10-10 17:06	May-10-10 17:27	May-10-10 17:47	May-10-10 18:08	May-10-10 18:29
		Units/RL:	8					mg/kg RL
	Benzene		£			6		ND 0.0011
	Toluene		ND 0.0023		ND 0.0021			ND 0.0023
es ND 0.0023 ND 0.0021 ND 0.0021 ND 0.0021 ND 0.0021 ND 0.0021 ND 0.0011 ND ND	Ethylbenzene						I .	ND 0.0011
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	m,p-Xylenes					1	1	ND 0.0023
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	o-Xylene							ND 0.0011
X ND 0.0011 ND ND 0.0011 ND	Total Xylenes				1			ND 0.0011
Percent Moisture Extracted: May-07-10 17:00 May-07-10 12:15 May-07-10 13:15 May-07-10 13:	Total BTEX							ND 0.0011
	Percent Moisture	Extracted:						
		Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00
01.5 1.0 8.31 1.00 6.17 1.00 5.74 1.00 8.62 8.62 1.00 8.62 1.00 8.62 1.00 8.62 1.00 8.62 1.00 8.62 1.00 8.62 1.00 8.62 1.0		Units/RL:						% RL
TPH By SW8015 Mod Extracted. May-07-10 13:15 May-07-10 13	Percent Moisture							12.6 1.00
	TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15
Units/RL: mg/kg RL mg/kg		Analyzed:	May-08-10 00:15	May-08-10 00:46	May-08-10 01:18	May-08-10 01:50	May-08-10 02:22	May-08-10 02:53
asoline Range Hydrocarbons ND 16.9 ND 16.4 ND 16.0 ND 15.8 ND Dissel Range Hydrocarbons ND 16.9 ND 16.4 ND 15.0 ND 15.8 ND Dissel Range Hydrocarbons ND 16.9 ND 16.4 ND 15.8 ND Dil Range Hydrocarbons ND 16.9 ND 16.4 ND 15.8 ND Dil Range Hydrocarbons ND 16.4 ND 16.0 ND 15.8 ND		Units/RL:						mg/kg RL
Disel Range Hydrocarbons ND 16.9 ND 16.4 ND 15.8 ND Dil Range Hydrocarbons ND 16.9 ND 16.4 ND 16.0 ND 15.8 ND Dil Range Hydrocarbons ND 16.9 ND 16.4 ND 15.8 ND Dil Range Hydrocarbons ND 16.9 ND 16.4 ND 15.8 ND	C6-C12 Gasoline Range Hydrocarbons							ND 17.1
Dil Range Hydrocarbons ND 16.9 ND 16.4 ND 16.0 ND 15.8 ND ND 16.9 ND 16.4 ND 16.0 ND 15.8 ND	C12-C28 Diesel Range Hydrocarbons							ND 17.1
ND 16.9 ND 16.4 ND 16.0 ND 15.8 ND	C28-C35 Oil Range Hydrocarbons							ND 17.1
	Total TPH		ND 16.9				ND 16.4	ND 17.1

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Odessa Laboratory Manager

Brent Barron, II

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Certificate of Analysis Summary 371873 Basin Environmental Consulting, LLC, Lovington, NM Project Name: LR Chamberlain Tank Battery



Received by OCD: 3/28/2025 2:09:37 PM

ation: Lea County. Mater: Camille Bryant and an anter: Camille Bryant anter: Camille Bryant anter: Camille Bryant anter: Law It and Apr2-01 13 1873-033 71873-033 71873-033 71873-043 7183-044-043 7183-043 7183-043 7183-043 7183-043 7183-043 7183-043 7183-043-043-043-043-043-043-043-043-043-04	Proiert Id.		Project Name: L	Project Name: LR Chamberlain Tank Battery	ank Battery		
Report Date: Report Date: Predict: 71873-033 71873-033 Field rd: 71873-033 71873-033 71873-033 Field rd: 71873-033 71873-033 71873-033 Field rd: 71873-033 71873-033 71873-033 Somplex: SOIL SOIL Somplex: SOIL SOIL Somplex: SOIL SOIL Somplex: SOIL Somplex: SOIL Somplex: SOIL Somplex: SOIL Somplex: May-10-104:30 May-10-104:30 Analyzed: May-10-104:30 May-10-104:30 Analyzed: May-10-104:30 May-10-104:30 Mandrex: May-10-104:30 May-10-104:30 Mandrex: May-10-104:30 May-10-101:30 </th <th>Contact: Camille Bryant</th> <th></th> <th></th> <th></th> <th>Dat</th> <th></th> <th>[hu May-06-10 05:08 pm</th>	Contact: Camille Bryant				Dat		[hu May-06-10 05:08 pm
Project Manager: Project Manager: Field Id: 71873-031 371873-032 371873-033 371873-033 371873-033 371873-034 Field Id: Tab Id: 371873-031 371873-033 371873-033 371873-033 371873-034 Field Id: Tab Id: SOIL SOIL SOIL SOIL SOIL Sampled: Apr-29-1014:20 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 Caracted: May-12-1019:31 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 Chick/LL mg/kg RL mg/kg RL mg/kg RL May-12-1019:30 Analyce/L mg/kg RL mg/kg RL mg/kg RL May-12-1019:30 Analyce/L mg/kg RL May-12-1014:30 May-12-1019:30 May-12-1019:30 Analyce/L mg/kg RL May-12-1014:30 May-12-1019:30 May-12-1019:30 <	Project I ocation: Lea County NM					Report Date:	4-MAY-10
Lab Ld Lab Ld Lab Ld Lab Ld Tab Ld							3rent Barron, II
Inalysis Requested Fidd Id. T-4 smile 3.9 (1.5 smile 1.6.2 (1.5 smile 1.6.3.5 (1.5 smile 1.6.3 (1.5 smile 1.		Lab Id:	371873-031	371873-032	371873-033	371873-034	
	Analysis Dogwood	Field Id:	T-4 Sample 3 @ 3'	T-5 Sample 1 @ 2'	T-5 Sample 1 @ 3.5'	T-5 Sample 2 @ 2'	
	naisanhay sisting	Depth:					
		Matrix:	SOIL	SOIL	SOIL	SOIL	
Anions by E300 Extracted: Indicate: Navi-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 May-12-1019:30 Aniorzed: Navi-10 mo/kg RL ML ML		Sampled:	Apr-29-10 14:20	Apr-29-10 14:40	Apr-29-10 15:00	Apr-29-10 15:30	
	Anions by E300	Extracted:					
		Analyzed:	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	May-12-10 19:30	
IZ3 IZ3 ID.1 Z870 S0.6 IS30 Z3.2 66.4 4 BTEX by EPA 8021B Extracted: May-I0-1014:30 May-I0-1014:30 May-I0-1014:30 May-I0-1014:30 May-I0-1014:30 May-I0-1014:30 May-I0-1016:30 BTEX by EPA 8021B Extracted: May-I0-1014:30 May-I0-1014:30 May-I0-1020:2 MD I0001		Units/RL:					
	Chloride		3	0			
	BTEX by EPA 8021B	Extracted:	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	May-10-10 14:30	
		Analyzed:	May-10-10 19:31	May-10-10 19:52	May-10-10 20:12	May-10-10 20:33	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Units/RL:					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Benzene						
me ND 0.0012 ND 0.0011 ND 0.00 es ND 0.0024 ND 0.0022 ND 0.00 es ND 0.0012 ND 0.0012 ND 0.00 mes ND 0.0012 ND 0.0012 ND 0.001 ND 0.00 mes ND 0.0012 ND 0.0012 ND 0.0011 ND 0.0 mes ND 0.0012 ND 0.0012 ND 0.0011 ND 0.0 mes ND 0.0012 ND 0.0012 ND 0.0011 ND 0.0 mes ND 0.0012 ND 0.0012 ND 0.0011 ND 0.0 Terraread May-07-10<17:00 May-07-10<17:00 May-07-10<17:01 May-07-10<17:01 May-07-10	Toluene						
es ND 0.0024 ND 0.002 ND 0.00 nes ND 0.0012 ND 0.0011 ND 0.00 nes ND 0.0012 ND 0.0012 ND 0.00 nes ND 0.0012 ND 0.0012 ND 0.001 ND 0.0 x ND 0.0012 ND 0.0012 ND 0.011 ND 0.0 x ND 0.0012 ND 0.0012 ND 0.011 ND 0.0 x ND 0.0012 ND 0.0012 ND 0.011 ND 0.0 x ND 0.0012 ND 0.0012 ND 0.011 ND 0.0 x $nalyzeli May-07-1017:00 May-07-1017:00 May-07-1017:00 May-07-1017:01 nay-07-1017:00 nay-07-1017:01 nay-07-1017:00 nay-07-1017:01 nay-07-1017:01 nay-07-1017:01 nay-07-1017:01 nay-07-1017:01 nay-07-$	Ethylbenzene		1	•		•	
	m,p-Xylenes						
mes ND 0.0012 ND 0.0011 ND 0.001 ND 0.00 ND	o-Xylene		1				
X ND 0.0012 ND 0.0011 ND 0.001 ND 0.00 Percent Moisture Extracted: May-07-10 TO 0.0012 ND 0.0012 ND 0.001 ND 0.00 Percent Moisture Extracted: May-07-10 TO May-07-10 TO May-07-10 TO Indixet VinitsRL: % RL % RL % RL % RL % ND 0.0013 Obsture LinitsRL: May-07-10 13:15 May-07-10	Total Xylenes						
Percent Moisture Extracted: May-07-10 17:00 May-07-10 12:00 May-07-10 12:	Total BTEX			•		1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Percent Moisture	Extracted:					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Analyzed:	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	May-07-10 17:00	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Units/RL:					
TPH By SW8015 Mod Extracted: May-07-10 13:15 May-07-10 13:16 May-08-10 05:15 May-08-10 05:16 May-08-10 05:16 May-08-10 05:16 May-08-10 05:17 May-08-10 05:16 May-08-10 05	Percent Moisture						
Analyzed: May-08-10 03:54 May-08-10 04:25 May-08-10 04:56 May-08-10 05:5 soline Range Hydrocarbons Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg soline Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 Diseel Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 1 ND 1	TPH By SW8015 Mod	Extracted:	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	May-07-10 13:15	
Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg asoline Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 Discel Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1 Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND 1		Analyzed:	May-08-10 03:54	May-08-10 04:25	May-08-10 04:56	May-08-10 05:29	
asoline Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Diesel Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Diesel Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND		Units/RL:					
Disel Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND Dil Range Hydrocarbons ND 18.0 ND 18.1 ND 16.6 ND	C6-C12 Gasoline Range Hydrocarbons						
ND 18.0 ND 18.1 ND 16.6 ND NI 18.0 ND 18.0 ND 16.6 ND ND 18.0 ND 18.1 ND 16.6 ND	C12-C28 Diesel Range Hydrocarbons						
CN 181 CN 181 CN 18 CN 191 CN	C28-C35 Oil Range Hydrocarbons						
	Total TPH		ND 18.0	ND 18.1	ND 16.6	ND 17.5	

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Flagging Criteria



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

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



Project Name: LR Chamberlain Tank Battery

'ork Orders : 371873 Lab Batch #: 805828	, Sample: 562820-1-BKS / B	KS Batch	Project I : 1 Matrix			
Units: mg/kg	Date Analyzed: 05/08/10 16:10	_	RROGATE R		STUDY	·
BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		····	[D]		ļ
1,4-Difluorobenzene		0.0295	0.0300	98	80-120	·····
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 805828	Sample: 562820-1-BSD / B					
Units: mg/kg	Date Analyzed: 05/08/10 16:33	SUI	RROGATE R	ECOVERY	STUDY	
BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0300	0.0300	98	80-120	
					80-120	
Lab Batch #: 805828	Sample: 562820-1-BLK / B					
Units: mg/kg	Date Analyzed: 05/08/10 17:39	SUI	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	
Lab Batch #: 805828	Sample: 371873-001 / SMP	Batch	: 1 Matrix	: Soil	· · · · · ·	
Units: mg/kg	Date Analyzed: 05/08/10 18:01	SUI	ROGATE R	ECOVERY S	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120	
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 805828	Sample: 371873-002 / SMP	Batch	: 1 Matrix	c:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 18:24	SUI	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	
4-Bromofluorobenzene		0.0297	0.0300	99	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



Project Name: LR Chamberlain Tank Battery

'ork Orders : 371873 Lab Batch #: 805828	, Sample: 371873-003 / SMP	Batc	Project II h: ¹ Matrix			
Units: mg/kg	Date Analyzed: 05/08/10 18:46		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	
Lab Batch #: 805828	Sample: 371873-004 / SMP	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 19:08	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0239	0.0300	80	80-120	
4-Bromofluorobenzene		0.0293	0.0300	98	80-120	
Lab Batch #: 805828	Sample: 371873-005 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 19:31	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120	
4-Bromofluorobenzene		0.0291	0.0300	97	80-120	•
Lab Batch #: 805828	Sample: 371873-006 / SMP	Bate	h: ¹ Matrix	: Soil	I	
Units: mg/kg	Date Analyzed: 05/08/10 19:53	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0241	0.0300	80	80-120	<u> </u>
4-Bromofluorobenzene		0.0286	0.0300	95	80-120	
Lab Batch #: 805828	Sample: 371873-007 / SMP		h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/08/10 20:16	SU	RROGATE R	ECOVERY S	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags
1,4-Difluorobenzene		0.0241	0.0300	80	80-120	
		0,04 1	0,0500			

* 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



Project Name: LR Chamberlain Tank Battery

·	Dete				
· · ·				STUDY	
	Amount Found	True Amount	Recovery	Control Limits	Flags
Analytes	()	[2]	[D]	,	
	0.0239	0.0300	80	80-120	
	0.0282	0.0300	94	80-120	
Sample: 371873-009 / SMP	Batc	h: ¹ Matrix	:Soil		
Date Analyzed: 05/08/10 21:01	SU	RROGATE R	ECOVERY S	STUDY	
	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes					
	0.0305	L		80-120	<u> </u>
Sample: 371873-010 / SMP					
Date Analyzed: 05/08/10 21:23	SU	RROGATE R	ECOVERYS	STUDY	
BTEX by EPA 8021B		True Amount [B]	Recovery %R IDI	Control Limits %R	Flags
Analyus	0.0245	0.0300		80.120	
Same 271873 011 / SMP				00.20	
· · ·			-	STUDY	
	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
	0.0238	0.0300	79	80-120	*
	0.0273	0.0300	91	80-120	
Sample: 371873-012 / SMP	Bate	h: ¹ Matrix	:Soil		
Sample: 371873-012 / SMP Date Analyzed: 05/08/10 22:53	Bate		:Soil		<u> </u>
Date Analyzed: 05/08/10 22:53 X by EPA 8021B	Bate	h: ¹ Matrix	: Soil ECOVERY S Recovery %R		Flage
Date Analyzed: 05/08/10 22:53	Batc SU Amount Found	h: ¹ Matrix RROGATE R True Amount	: Soil ECOVERY S Recovery	STUDY Control Limits	Flags
	Sample: 371873-009 / SMP Date Analyzed: 05/08/10 21:01 X by EPA 8021B Analytes Sample: 371873-010 / SMP Date Analyzed: 05/08/10 21:23 X by EPA 8021B Analytes Sample: 371873-010 / SMP Date Analyzed: 05/08/10 21:23 X by EPA 8021B Analytes Sample: 371873-011 / SMP Date Analyzed: 05/08/10 22:30 X by EPA 8021B	Sample:371873-008 / SMPBateDate Analyzed:05/08/1020:38SUX by EPA 8021BAmount Found [A]Analytes0.02390.02390.02820.0282Sample:371873-009 / SMPBateDate Analyzed:05/08/1021:01X by EPA 8021BAmount Found [A]Amount Found [A]Analytes0.02470.0305Sample:371873-010 / SMPBateDate Analyzed:05/08/1021:23X by EPA 8021BAmount Found [A]Amount Found [A]Analytes0.02450.0303Sample:371873-011 / SMP BateBateDate Analyzed:05/08/1021:23X by EPA 8021BAmount Found [A]Amount Found [A]Analytes0.02450.0303Sample:371873-011 / SMP BateBate CDate Analyzed:05/08/1022:30X by EPA 8021BAmount Found [A]Amount Found [A]AnalytesAmount Found [A]Found [A]	Sample: 371873-008 / SMP Batch: 1 Matrix Date Analyzed: 05/08/10 20:38 SURROGATE R X by EPA 8021B Amount [A] True Amount [A] True Amount [B] Analytes 0.0239 0.0300 0.0229 0.0300 Sample: 371873-009 / SMP Batch: 1 Matrix Date Analyzed: 05/08/10 21:01 SURROGATE R Matrix X by EPA 8021B Amount [A] True Amount [A] Matrix Analytes 0.0247 0.0300 0.0300 Sample: 371873-010 / SMP Batch: 1 Matrix Date Analyzed: 05/08/10 21:23 SURROGATE R Matrix Date Analyzed: 05/08/10 21:23 SURROGATE R Matrix X by EPA 8021B Amount [A] True Amount [A] True Amount [A] Matrix Analytes 0.0245 0.0300 0.0300 Sample: 371873-011 / SMP Batch: 1 Matrix Date Analyzed: 05/08/10 22:30 SURROGATE R <td>Sample:371873-008 / SMPBatch:1Matrix: SoilDate Analyzed:05/08/1020:38SURROGATERECOVERY SK by EPA 8021BAmount [A]Found [A]True Amount [B]Recovery %R [D]Analytes0.02390.0300800.02290.030094Sample:371873-009 / SMP Sample:Batch:1Matrix: SoilDate Analyzed:05/08/1021:01SURROGATERecovery %R [D]AnalytesAmount [A]True [B]Recovery %R [D]Analytes0.02470.0300820.03050.0300102Sample:371873-010 / SMP SMPBatch:1Matrix: SoilDate Analyzed:05/08/1021:23SURROGATERecovery %R [D]Date Analyzed:05/08/1021:23SURROGATERecovery %R [D]Date Analyzed:05/08/1021:23SURROGATERecovery %R [D]Analytes0.02450.0300820.03030.0300101Sample:371873-011 / SMP Batch:1Matrix: SoilDate Analyzed:05/08/1022:30SURROGATERecovery %R [D]Date Analyzed:05/08/1022:30SURROGATERecovery %R [D]AnalytesIAmount [A]True [A]Recovery %R [D]Date Analyzed:05/08/1022:30SUROGATERecovery %R [D]Date Analyzed:05/08/10<</td> <td>Sample:371873-008 / SMPBatch:1Matrix: SoilDate Analyzed:05/08/10 20:38SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True [B]Recovery %RControl Limits %RAnalytes0.02390.03008080-1200.02390.03009480-120Sample:371873-009 / SMPBatch:1Matrix: SoilDate Analyzed:0.02820.03009480-120Sample:371873-009 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.508/10 21:23SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True Amount [B]Recovery %R [D]Analytes0.02450.03008280-120Sample:371873-011 / SMPBatch:1Matrix: SoilDate Analyzed:0.02/10 22:30SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True Amount [B]Recovery %R [D]Date Analyzed:0.003010.030010180-120Sample:371873</td>	Sample:371873-008 / SMPBatch:1Matrix: SoilDate Analyzed:05/08/1020:38SURROGATERECOVERY SK by EPA 8021BAmount [A]Found [A]True Amount [B]Recovery %R [D]Analytes0.02390.0300800.02290.030094Sample:371873-009 / SMP Sample:Batch:1Matrix: SoilDate Analyzed:05/08/1021:01SURROGATERecovery %R [D]AnalytesAmount [A]True [B]Recovery %R [D]Analytes0.02470.0300820.03050.0300102Sample:371873-010 / SMP SMPBatch:1Matrix: SoilDate Analyzed:05/08/1021:23SURROGATERecovery %R [D]Date Analyzed:05/08/1021:23SURROGATERecovery %R [D]Date Analyzed:05/08/1021:23SURROGATERecovery %R [D]Analytes0.02450.0300820.03030.0300101Sample:371873-011 / SMP Batch:1Matrix: SoilDate Analyzed:05/08/1022:30SURROGATERecovery %R [D]Date Analyzed:05/08/1022:30SURROGATERecovery %R [D]AnalytesIAmount [A]True [A]Recovery %R [D]Date Analyzed:05/08/1022:30SUROGATERecovery %R [D]Date Analyzed:05/08/10<	Sample:371873-008 / SMPBatch:1Matrix: SoilDate Analyzed:05/08/10 20:38SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True [B]Recovery %RControl Limits %RAnalytes0.02390.03008080-1200.02390.03009480-120Sample:371873-009 / SMPBatch:1Matrix: SoilDate Analyzed:0.02820.03009480-120Sample:371873-009 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.02470.03008280-120Sample:371873-010 / SMPBatch:1Matrix: SoilDate Analyzed:0.508/10 21:23SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True Amount [B]Recovery %R [D]Analytes0.02450.03008280-120Sample:371873-011 / SMPBatch:1Matrix: SoilDate Analyzed:0.02/10 22:30SURROGATE RECOVERY STUDYX by EPA 8021BAmount Found [A]True Amount [B]Recovery %R [D]Date Analyzed:0.003010.030010180-120Sample:371873

* 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



Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

ork Orders : 371873 Lab Batch #: 805828	, Sample: 371873-013 / SMP	Batcl	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/08/10 23:15		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	
4-Bromofluorobenzene		0.0291	0.0300	97	80-120	
Lab Batch #: 805828	Sample: 371873-014 / SMP	Batcl	h: ¹ Matrix	r: Soil		
Units: mg/kg	Date Analyzed: 05/08/10 23:38	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0290	0.0300	97	80-120	
Lab Batch #: 805828	Sample: 371873-015 / SMP	Batc	h: 1 Matrix	c: Soil		
Units: mg/kg	Date Analyzed: 05/09/10 00:00	SU	RROGATE R	ECOVERY S	STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0243	0.0300	81	80-120	
4-Bromofluorobenzene		0.0302	0.0300	101	80-120	
Lab Batch #: 805828	Sample: 371873-016 / SMP	Batcl	h: ¹ Matrix	: Soil		
Units: mg/kg	Date Analyzed: 05/09/10 00:22		RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0242	0.0300	81	80-120 80-120	
	a 1 271072 017 (Stro				00-120	
Lab Batch #: 805828	Sample: 371873-017 / SMP	Batel	h: ¹ Matriy RROGATE R		STUDV	
Units: mg/kg	Date Analyzed: 05/09/10 00:44					
BTEZ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1,4-Difluorobenzene		0.0245	0.0300	82	80-120	
4-Bromofluorobenzene		0.0296	0.0300			

* 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

Project Name: LR Chamberlain Tank Battery

/ork Orders : 371873	-		Project I			
Lab Batch #: 805828	Sample: 371873-018 / SMP					
Units: mg/kg BTE2	Date Analyzed: 05/09/10 01:06 X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0293	0.0300	98	80-120	
Lab Batch #: 805828	Sample: 371873-019 / SMP	Batch	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/09/10 01:28	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Anarytes	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene		0.0242	0.0300	96	80-120	
Lab Batch #: 805828	Sample: 371873-020 / SMP	Batcl	n: 1 Matrix	· Soil	J	
Units: mg/kg	Date Analyzed: 05/09/10 01:51		RROGATE R		STUDY	
Found Amount Recovery L		Control Limits %R	Flags			
1,4-Difluorobenzene		0.0244	0.0300	81	80-120	
4-Bromofluorobenzene		0.0302	0.0300	101	80-120	
Lab Batch #: 805828	Sample: 371873-020 S / MS	Batcl	h: l Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/09/10 02:13	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X 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		0.0296	0.0300	99	80-120	
Lab Batch #: 805828	Sample: 371873-020 SD / M	SD Batcl	n: 1 Matrix	:Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 05/09/10 02:36	SU	RROGATE RI	ECOVERY	STUDY	<u>-</u>
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	·	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene		0.0292	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



- - -

Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

ork Orders : 371873 Lab Batch #: 805963	, Sample: 562918-1-BKS / B	KS Batc	Project I h: ¹ Matrix			
Units: mg/kg	Date Analyzed: 05/10/10 09:12		RROGATE R		STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0301	0.0300	100	80-120	
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 805963	Sample: 562918-1-BSD / B	SD Bate	h: Matrix	:Solid		
Units: mg/kg	Date Analyzed: 05/10/10 09:33	SU	RROGATE R	ECOVERY S	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Anaryus	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0304	0.0300	100	80-120	
Lab Batch #: 805963	Sample: 562918-1-BLK / B		I		00 120	
Units: mg/kg	Date Analyzed: 05/10/10 10:35		RROGATE R	-	STUDY	
	X 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		0.0296	0.0300	99	80-120	
Lab Batch #: 805963	Sample: 371873-021 / SMF	P Batc	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/10/10 15:23		RROGATE R		STUDY	
	X 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		0.0278	0.0300	93	80-120	
Lab Batch #: 805963	Sample: 371873-022 / SMF	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/10/10 15:44	SU	RROGATE R	ECOVERY	STUDY	
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	······································	0.0269	0.0300	90	80-120	

* 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

Project Name: LR Chamberlain Tank Battery

ork Orders : 371873	-		Project II				
Lab Batch #: 805963	Sample: 371873-023 / SMP	Batch: 1 Matrix: Soil SURROGATE RECOVERY STUDY					
Units: mg/kg BTE	Date Analyzed: 05/10/10 16:04 X by EPA 8021B	Amount Found {A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1,4-Difluorobenzene		0.0273	0.0300	91	80-120		
4-Bromofluorobenzene		0.0310	0.0300	103	80-120		
Lab Batch #: 805963	Sample: 371873-024 / SMP	Batel	h: ¹ Matrix:	Soil			
Units: mg/kg	Date Analyzed: 05/10/10 16:25	SU	RROGATE RI	ECOVERY S	STUDY		
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobenzene		0.0269	0.0300	90	80-120		
4-Bromofluorobenzene		0.0300	0.0300	100	80-120		
Lab Batch #: 805963	Sample: 371873-025 / SMP	Bate	h: l Matrix	Soil			
Units: mg/kg	Date Analyzed: 05/10/10 16:45	SU	RROGATE RI	ECOVERY	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		0.0292	0.0300	97	80-120		
Lab Batch #: 805963	Sample: 371873-026 / SMP	Bate	h: 1 Matrix:	Soil	I <u></u>		
Units: mg/kg	Date Analyzed: 05/10/10 17:06	SU	RROGATE RI	ECOVERY S	STUDY		
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1.4-Difluorobenzene	Analytes	0.007/			00.120		
4-Bromofluorobenzene		0.0276	0.0300	92 90	80-120 80-120		
	Sample: 371873-027 / SMP				00 120		
Lab Batch #: 805963	Date Analyzed: 05/10/10 17:27	Batcl	h: 1 Matrix RROGATE RI		STUDY		
Units: mg/kg	X by EPA 8021B	Amount	True		Control Limits	Flags	
BTE.		Found [A]	Amount [B]	Recovery %R	%R	8-	
BIE.	Analytes					a	

* 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

Project Name: LR Chamberlain Tank Battery

York Orders : 371873 Lab Batch #: 805963	, Sample: 371873-028 / SMP	Bate	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/10/10 17:47	SURROGATE RECOVERY STUDY				
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0268	0.0300	89	80-120	
4-Bromofluorobenzene		0.0272	0.0300	91	80-120	
Lab Batch #: 805963	Sample: 371873-029 / SMP	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/10/10 18:08	SU	RROGATE R	ECOVERYS	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene		0.0272	0.0300	95	80-120	
Lab Batch #: 805963	Sample: 371873-030 / SMP	Batc	I			
Units: mg/kg	Date Analyzed: 05/10/10 18:29		RROGATE R		STUDY	
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0278	0.0300	93	80-120	
4-Bromofluorobenzene		0.0303	0.0300	101	80-120	
Lab Batch #: 805963	Sample: 371873-031 / SMP	Batel	h: 1 Matrix	:Soil	()	
Units: mg/kg	Date Analyzed: 05/10/10 19:31	SU	RROGATE R	ECOVERY	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0279	0.0300	93	80-120	
4-Bromofluorobenzene		0.0285	0.0300	95	80-120	
Lab Batch #: 805963	Sample: 371873-032 / SMP		h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/10/10 19:52	SU	RROGATE R	ECOVERY S	STUDY	
BTEX	K 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	
,			0.0000	1	~~	

* Surrogate outside of Laboratory QC limits

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

^{***} Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: LR Chamberlain Tank Battery

/ork Orders : 371873 Lab Batch #: 805963	, Sample: 371873-033 / SMP	Batc	Project II h: 1 Matrix					
Units: mg/kg	Date Analyzed: 05/10/10 20:12	SURROGATE RECOVERY STUDY				UDY		
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R {D}	Control Limits %R	Flags		
	Analytes			L				
1,4-Difluorobenzene		0.0275	0.0300	92	80-120			
4-Bromofluotobenzene		0.0285	0.0300	95	80-120			
Lab Batch #: 805963	Sample: 371873-034 / SMP	Bate		-				
Units: mg/kg	Date Analyzed: 05/10/10 20:33	SU	RROGATE RI	ECOVERY	STUDY			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0269	0.0300	90	80-120			
4-Bromofluorobenzene		0.0301	0.0300	100	80-120			
Lab Batch #: 805963	Sample: 371873-021 S / MS	Batc	h: ¹ Matrix	: Soil				
Units: mg/kg	Date Analyzed: 05/10/10 21:56		RROGATE RI	ECOVERY	STUDY			
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0362	0.0300	121	80-120	*		
4-Bromofluorobenzene		0.0313	0.0300	104	80-120			
Lab Batch #: 805963	Sample: 371873-021 SD / M	SD Batc	h: 1 Matrix	:Soil	·			
Units: mg/kg	Date Analyzed: 05/10/10 22:17	SU	RROGATE RI	ECOVERY	STUDY			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0289	0.0300	96	80-120			
4-Bromofluorobenzene		0.0338	0.0300	113	80-120			
Lab Batch #: 805736	Sample: 562786-1-BKS / BI	KS Bate	h: 1 Matrix	:Solid				
Units: mg/kg	Date Analyzed: 05/07/10 16:54	SU	RROGATE RI	ECOVERY	STUDY			
TPH 2	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		44.7	50.2	89	70-135	L		

* 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



Project Name: LR Chamberlain Tank Battery

ork Orders : 371873 Lab Batch #: 805736	, Sample: 562786-1-BSD / B	SD Bate	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/07/10 17:20		RROGATE R		STUDY	
• "	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		113	100	113	70-135	
o-Terphenyl		44.0	50.2	88	70-135	
Lab Batch #: 805736	Sample: 562786-1-BLK / B					
Units: mg/kg	Date Analyzed: 05/07/10 17:47	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	96.2	99.6	97	70-135	
o-Terphenyl		48.1	49.8	97	70-135	
Lab Batch #: 805736	Sample: 371873-001 / SMP	Bato	h: ¹ Matrix	:Soil		- <u></u>
Units: mg/kg	Date Analyzed: 05/07/10 18:14		RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.5	100	99	70-135	
o-Terphenyl		49.0	50.2	98	70-135	
Lab Batch #: 805736	Sample: 371873-002 / SMP	Bato	ch: ¹ Matrix	c:Soil	I	
Units: mg/kg	Date Analyzed: 05/07/10 18:41	SU	RROGATE R	ECOVERY	STUDY	
TPH]	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooctane		96.0	100	96	70-135	
o-Terphenyl		48.0	50.2	96	70-135	
Lab Batch #: 805736	Sample: 371873-003 / SMP	Bato	h: ¹ Matrix	: Soil	•	
Units: mg/kg	Date Analyzed: 05/07/10 19:08	SU	RROGATE R	ECOVERY	STUDY	
TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1.011	· · · · · · · · · · · · · · · · · · ·	98.2	100	98	70-135	
I-Chlorooctane						

* 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

Project Name: LR Chamberlain Tank Battery

ork Orders : 371873	,		Project II				
Lab Batch #: 805736	Sample: 371873-004 / SMP						
Units: mg/kg	Date Analyzed: 05/07/10 19:35	SURROGATE RECOVERY STUDY					
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		93.8	99.8	94	70-135		
o-Terphenyl		46.3	49.9	93	70-135		
Lab Batch #: 805736	Sample: 371873-005 / SMP	Bate	h: ¹ Matrix	Soil			
Units: mg/kg	Date Analyzed: 05/07/10 20:02	SU	RROGATE RI	ECOVERY S	STUDY		
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	Analytes	04.7	100		70.125		
o-Terphenyl		94.7	100 50.1	95 92	70-135 70-135		
					70-133		
Lab Batch #: 805736	Sample: 371873-006 / SMP	Bate					
Units: mg/kg	Date Analyzed: 05/07/10 20:29	SU	RROGATE R		STUDY		
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane		95.5	100	96	70-135		
o-Terphenyl		47.1	50.0	94	70-135		
Lab Batch #: 805736	Sample: 371873-007 / SMP	Bate	h: 1 Matrix	:Soil			
Units: mg/kg	Date Analyzed: 05/07/10 20:56	SU	RROGATE R	ECOVERY S	STUDY		
ТРН	By SW8015 Mod	Amount Found [A]	True Amount B	Recovery %R	Control Limits %R	Flags	
·······	Analytes			[D]			
1-Chlorooctane		94.8	100	95	70-135		
o-Terphenyl		47.9	50.2	95	70-135		
Lab Batch #: 805736	Sample: 371873-008 / SMP	Batc					
Units: mg/kg	Date Analyzed: 05/07/10 21:23	SU	RROGATE R	ECOVERY	STUDY		
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
	Analytes			[D]			
1-Chlorooctane		95.5	99.8	96	70-135		
o-Terphenyl		47.9	49.9	96	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

Project Name: LR Chamberlain Tank Battery

/ork Orders : 371873 Lab Batch #: 805736	, Sample: 371873-009 / SMP	Batc	Project II h: ¹ Matrix			
Units: mg/kg	Date Analyzed: 05/07/10 21:50	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.011	Analytes	04.2	100		70-135	
I-Chlorooctane o-Terphenyl		94.3	100 50.1	94	70-135	
					70-155	
Lab Batch #: 805736	Sample: 371873-010 / SMP	Batc			TUDY	
Units: mg/kg	Date Analyzed: 05/07/10 22:16	6 SURROGATE RECOVERY STUDY				
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		95.5	99.8	96	70-135	
o-Terphenyl		47.5	49.9	95	70-135	
Lab Batch #: 805736	Sample: 371873-011 / SMP	Batc				
Units: mg/kg	Date Analyzed: 05/07/10 23:11	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R {D}	Control Limits %R	Flags
1-Chlorooctane		95.3	99.8	95	70-135	
o-Terphenyl		47.5	49.9	95	70-135	
Lab Batch #: 805736	Sample: 371873-012 / SMP	Batc	h: ¹ Matrix	·Soil		
Units: mg/kg	Date Analyzed: 05/07/10 23:38		RROGATE R		STUDY	
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	•	94.3	99.8	94	70-135	
o-Terphenyl		47.3	49.9	95	70-135	
Lab Batch #: 805736	Sample: 371873-013 / SMP	Bate	h: ¹ Matrix	: Soil	<u>_</u> _	
Units: mg/kg	Date Analyzed: 05/08/10 00:05		RROGATE R		STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found {A}	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		94.8	99.5	95	70-135	
o-Terphenyl		47.3	49.8	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



Project Name: LR Chamberlain Tank Battery

Vork Orders : 371873	,	D- 4-1	Project II h: 1 Matrix			
Lab Batch #: 805736 Units: mg/kg	Sample: 371873-014 / SMP Date Analyzed: 05/08/10 00:32					
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		95.0	101	94	70-135	
o-Terphenyl		47.5	50.3	94	70-135	
Lab Batch #: 805736	Sample: 371873-015 / SMP	Batel	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 00:59	SURROGATE RECOVERY STUDY				
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		96.3	99.5	97	70-135	
o-Terphenyl		47.9	49.8	96	70-135	
Lab Batch #: 805736	Sample: 371873-016 / SMP	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 01:26		RROGATE R		STUDY	
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		92.9	99.5	93	70-135	
o-Terphenyl		46.1	49.8	93	70-135	
Lab Batch #: 805736	Sample: 371873-017 / SMP	Bate	h: 1 Matrix	:Soil	· · · · · · · · · · · · · · · · · · ·	
Units: mg/kg	Date Analyzed: 05/08/10 01:53	SU	RROGATE R	ECOVERY S	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
I-Chlorooctane		90.5	100	91	70-135	
		46.3	50.0	93	70-135	
o-Terphenyl		46.3				
	Sample: 371873-018 / SMP	Bate	h: ¹ Matrix	:Soil		
	Sample: 371873-018 / SMP Date Analyzed: 05/08/10 02:20	Bate		:Soil	STUDY	
Lab Batch #: 805736 Units: mg/kg	Date Analyzed: 05/08/10 02:20 By SW8015 Mod	Bate	h: ¹ Matrix	: Soil ECOVERY S Recovery %R	STUDY Control Limits %R	Flags
Lab Batch #: 805736 Units: mg/kg	Date Analyzed: 05/08/10 02:20	Bate SU Amount Found	h: ¹ Matrix RROGATE R True Amount	: Soil ECOVERY S Recovery	Control Limits	Flags

* 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



Project Name: LR Chamberlain Tank Battery

ork Orders : 371873	-		Project I							
Lab Batch #: 805736 Sample: 371873-019 / SMP Batch: 1 Matrix: Soil										
Units: mg/kg	Date Analyzed: 05/08/10 02:48	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		98.2	99.5	99	70-135					
o-Terphenyl		48.6	49.8	98	70-135					
Lab Batch #: 805736	Sample: 371873-020 / SMP	Batc	h: ¹ Matrix	:Soil						
Units: mg/kg	Date Analyzed: 05/08/10 03:15	SURROGATE RECOVERY STUDY								
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane	Analytes	94.8	100	95	70-135					
o-Terphenyl		47.1	50.0	94	70-135					
	Sample: 371873-020 S / MS	Batc	h: ¹ Matrix	:Soil	<u> </u>					
Units: mg/kg	Date Analyzed: 05/08/10 03:42	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
I-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	123	100	123	70-135					
o-Terphenyl		48.2	50.1	96	70-135					
Lab Batch #: 805736	Sample: 371873-020 SD / N	ASD Bate	h: ¹ Matrix	:Soil	<u> </u>					
Units: mg/kg	Date Analyzed: 05/08/10 04:09		RROGATE R	ECOVERYS	STUDY					
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		119	99.5	120	70-135					
o-Terphenyl		47.2	49.8	95	70-135					
		VC D.t.	h: ¹ Matrix	• Solid						
Lab Batch #: 805752	Sample: 562796-1-BKS / B					SURROGATE RECOVERY STUDY				
Lab Batch #: 805752 Units: mg/kg	Sample: 562796-1-BKS / B Date Analyzed: 05/07/10 20:43				STUDY					
	Date Analyzed: 05/07/10 20:43 By SW8015 Mod			ECOVERY S Recovery %R	STUDY Control Limits %R	Flags				
Units: mg/kg	Date Analyzed: 05/07/10 20:43	SU Amount Found	RROGATE R	ECOVERY : Recovery	Control Limits	Flags				

* 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

Project Name: LR Chamberlain Tank Battery

/ork Orders : 371873 Lab Batch #: 805752	, Sample: 562796-1-BLK / BL	K Batc	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 05/07/10 21:46	SURROGATE RECOVERY STUDY				
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		84,6	99.6	85	70-135	
o-Terphenyl		46.9	49.8	94	70-135	
Lab Batch #: 805752	Sample: 371873-021 / SMP	Batc	h: ¹ Matrix	:Soil	<u>I</u> I	
Units: mg/kg	Date Analyzed: 05/07/10 22:16	SURROGATE RECOVERY STUDY				
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.011	Analytes		100		70.125	
1-Chlorooctane o-Terphenyl		82.0 44.6	100	82	70-135 70-135	
			1		70-155	
Lab Batch #: 805752	Sample: 371873-022 / SMP	Bate	h: 1 Matrix RROGATE R		STUDY	
Units: mg/kg	Date Analyzed: 05/07/10 22:46	50	RRUGATE R	ECOVERY		
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		81.3	99.9	81	70-135	
o-Terphenyl		44.3	50.0	89	70-135	
Lab Batch #: 805752	Sample: 371873-023 / SMP	Batc	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/07/10 23:15	SU	RROGATE R	ECOVERY	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		57.9	50.2	115	70-135	
Lab Batch #: 805752	Sample: 371873-024 / SMP	Batc	h: 1 Matrix	:Soil	•	
Units: mg/kg	Date Analyzed: 05/07/10 23:44	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		104	100	104	70-135	
. cinoroootuno		104	100	1 104	1 10-155	

* 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

Project Name: LR Chamberlain Tank Battery

/ork Orders : 371873 Lab Batch #: ⁸⁰⁵⁷⁵²	,	D (Project II			
Units: mg/kg	Sample: 371873-025 / SMP Date Analyzed: 05/08/10 00:15	AP Batch: 1 Matrix: Soil SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		87.9	99.5	88	70-135	
o-Terphenyl		48.0	49.8	96	70-135	
Lab Batch #: 805752	Sample: 371873-026 / SMP	Batc	h: ¹ Matrix	Soil		
Units: mg/kg	Date Analyzed: 05/08/10 00:46	SURROGATE RECOVERY STUDY				
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	07.0	100		70.125	
o-Terphenyl		97.0	100	97	70-135	
			L]	70-155	
Lab Batch #: 805752	Sample: 371873-027 / SMP	Bate	h: 1 Matrix		TUDV	
Units: mg/kg	Date Analyzed: 05/08/10 01:18	50	KRUGATE R	ECOVERY		
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		55.2	50.0	110	70-135	
Lab Batch #: 805752	Sample: 371873-028 / SMP	Bate	h: 1 Matrix	:Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 05/08/10 01:50	SU	RROGATE R	ECOVERY	STUDY	
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		93.7	99.5	94	70-135	
			1	1 102	70-135	
o-Terphenyl		50.8	49.8	102	10-133	
	Sample: 371873-029 / SMP	Bate	h: 1 Matrix	:Soil	<u> </u>	
	Sample: 371873-029 / SMP Date Analyzed: 05/08/10 02:22	Bate		:Soil	<u> </u>	
Lab Batch #: 805752 Units: mg/kg	Date Analyzed: 05/08/10 02:22 By SW8015 Mod	Bate	h: 1 Matrix	ECOVERY S Recovery %R	<u> </u>	Flags
Lab Batch #: 805752 Units: mg/kg	Date Analyzed: 05/08/10 02:22	Batc SU Amount Found	h: ¹ Matrix RROGATE R True Amount	COVERY S	STUDY Control Limits	Flags

* 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



Project Name: LR Chamberlain Tank Battery

Vork Orders : 371873	-	n / 1	Project Il			
Lab Batch #: 805752 Units: mg/kg	Sample: 371873-030 / SMP Date Analyzed: 05/08/10 02:53	Batel	h: 1 Matrix RROGATE R		STUDY	
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		95.9	99.6	96	70-135	
o-Terphenyl		52.0	49.8	104	70-135	
Lab Batch #: 805752	Sample: 371873-031 / SMP	Batcl	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 03:54	SURROGATE RECOVERY STUDY				
TPH]	By SW8015 Mod Analytes	Amount Found [A]	True Amount B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		87.8	99.8	88	70-135	
o-Terphenyl		48.2	49.9	97	70-135	
Lab Batch #: 805752		Batel	h: ¹ Matrix	· Soil		
	Date Analyzed: 05/08/10 04:25		RROGATE R		STUDY	
Units: mg/kg						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	83.0	100	83	70-135	
o-Terphenyl		45.5	50.1	91	70-135	
Lab Batch #: 805752	Sample: 371873-033 / SMP				10 120	
	Date Analyzed: 05/08/10 04:56	Batel	h: 1 Matrix RROGATE R	·	STUDY	
Units: mg/kg TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		55.5	50.1	111	70-135	
Lab Batch #: 805752	Sample: 371873-034 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 05:29	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		90.1	99.5	91	70-135	ļ
o-Terphenyl		49.5	49.8	99	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



Project Name: LR Chamberlain Tank Battery

Vork Orders : 371873 Lab Batch #: 805752 Units: mg/kg	, Sample: 371873-034 S / M3 Date Analyzed: 05/08/10 08:09	Project ID: MS Batch: 1 Matrix: Soil SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		93.2	99.6	94	70-135	
o-Terphenyl		42.7	49.8	86	70-135	
Lab Batch #: 805752	Sample: 371873-034 SD / M	ASD Bate	ch: 1 Matri	x:Soil		
Units: mg/kg	Date Analyzed: 05/08/10 08:42	SURROGATE RECOVERY STUDY				
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		97.9	100	98	70-135	
o-Terphenyl	<u> </u>	44.8	50.2	89	70-135	
Lab Batch #: 805752	Sample: 562796-1-BSD / B	SD Bate	ch: 1 Matri	x:Solid		
Units: mg/kg	Date Analyzed: 05/10/10 11:00	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	····	53.6	50.2	107	70-135	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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Recoveries
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in Tank Battery
LR Chamberlai
Project Name: I

Work Order #: 371873 Lab Batch ID: 805828 Analyst: ASA

Date Prepared: 05/08/2010 Batch #: 1

Sample: 562820-1-BKS

Project ID: Date Analyzed: 05/08/2010 Matrix: Solid

Units: mg/kg			BLANF	K/BLANK S	PIKE / B	TANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	RECOVE	RY STUD	Y	
BTEX by EPA 8021B		Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[8]	[1]	[1]	(E)	Kesun [r]	[6]				
Benzene		ŊŊ	0.1000	0.1042	104	0.1	0.1056	106	1	70-130	35	
Toluene		Q	0.1000	0.1006	101	0.1	0.1013	101	1	70-130	35	
Ethylbenzene		QN	0.1000	0.1051	105	0.1	0.1055	106	0	71-129	35	
m,p-Xylenes		ND	0.2000	0.2026	101	0.2	0.2032	102	0	70-135	35	
o-Xylene		ND	0.1000	0.0970	97	0.1	0.0973	97	0	71-133	35	
Analyst: ASA		Da	te Prepare	Date Prepared: 05/10/2010	0			Date An	alyzed: 0	Date Analyzed: 05/10/2010		
Lab Batch ID: 805963	Sample: 562918-1-BKS	ζS	Batch #:	#: 1				-	Matrix: Solid	olid		

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	RECOVE	RY STUD	Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	4	[B]	[c]	ē	[E]	Result [F]	[6]				
Benzene	Ð	0.1000	0.0861	86	0.1	0.0857	86	0	70-130	35	
Toluene	Ð	0.1000	0.0896	96	0.1	0.0891	68	1	70-130	35	
Ethylbenzene	QN	0.1000	0.0872	87	0.1	0.0867	87	1	71-129	35	
m,p-Xylenes	QN	0.2000	0.1948	26	0.2	0.1938	76	1	70-135	35	
o-Xylene	QN	0.1000	0.0964	96	0.1	0.0959	96	1	71-133	35	

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

Final Ver. 1.000

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XENCO Laboratories			BS / BSD		Recoveries	S	新たるで、		ີ "¥ນດຫຼັ		W117
	Pr	Project Name:		Chambe	srlain T	LR Chamberlain Tank Battery	Y		Ż		Ĩ
Work Order #: 371873 Analyst: LATCOR	Da	te Prepar	Date Prepared: 05/12/2010	0			Proj Date Ar	Project ID: Date Analyzed: 05/12/2010	5/12/2010		
Lab Batch ID: 806338 Sample: 806338-1-BKS	3KS	Batch #:	1#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	BLANK /BLANK S	SPIKE / E	SLANK S	SPIKE / BLANK SPIKE DUPLICATE		RECOVE	RECOVERY STUDY	Y	
Anions by E300	Blank Sample Result	Spike Added	Blank Spike Beeult	Blank Spike	Spike Added	Blank Spike Durdicata	Blk. Spk Dup. %D	RPD %	Control Limits %D	Control Limits %DPD	Flag
Analytes	<u>آي</u>	B	[C]	(D	[E]	Dupicate Result [F]	WW [9]	0%	N 0%	VIN D	
Chloride	QN	10.0	9.94	66	10	9.82	86	1	75-125	20	
Analyst: LATCOR	Da	Date Prepared:	ed: 05/12/2010	10		2	Date AI	Date Analyzed: 05/12/2010	5/12/2010		
Lab Batch ID: 806340 Sample: 806340-1-BKS	3KS	Batch #:	1#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK (SPIKE / I	3LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVE	RECOVERY STUDY	Y	
Anions by E300	Blank Sample Result	Spike Added	Blank Spike Decembe	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup. %D	RPD 25	Control Limits	Control Limits %DPD	Flag
Analytes	<u>{</u>	[B]		[a]	[E]	Dupiicate Result [F]	1	0/	N9/	70ML IJ	
Chloride	DN	10.0	10.4	104	10	9.90	66	5	75-125	20	
Analyst: BEV	Da	Date Prepared:	ed: 05/07/2010	0		2 2 2 2	Date Ai	Date Analyzed: 05/07/2010	5/07/2010		
Lab Batch ID: 805736 Sample: 562786-1-BKS	3KS	Batch #:	1#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	K /BLANK (SPIKE / E	SLANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVE	RECOVERY STUDY	Y	
TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Ι	[B]	Result [C]	8% [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	Ð	1000	1120	112	1000	1110	111	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	QN	1000	724	72	1000	774	77	7	70-135	35	

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

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BS / BSD Recoveries



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Project Name: LR Chamberlain Tank Battery

Work Order #: 371873 Analyst: BEV Lab Batch ID: 805752

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Date Prepared: 05/07/2010

Batch #: 1

Sample: 562796-1-BKS

Project ID: Date Analyzed: 05/07/2010 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / E	ILANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	:	[B]	[C]	[0]	[E]	Result [F]	[6]				
C6-C12 Gasoline Range Hydrocarbons	Ð	1000	1050	501	1000	1220	122	15	70-135	35	
C12-C28 Diesel Range Hydrocarbons	QN	1000	813	81	1000	891	68	6	70-135	35	
	-										



Chloride

Form 3 - MS Recoveries



Project Name: LR Chamberlain Tank Battery



75-125

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Work Order #: 371873 Lab Batch #: 806338			Pro	oject ID:		
	te Prepared: 05/12	2/2010		nalyst: L		
QC- Sample ID: 371873-001 S	Batch #: 1		r	Matrix: S	oil	
Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	1180	460	1680	109	75-125	
Lab Batch #: 806340	· · · · · · · · · · · · · · · · · · ·					
Date Analyzed: 05/12/2010 Date	te Prepared: 05/12	2/2010	А	nalyst: L	ATCOR	
QC- Sample ID: 371873-021 S	Batch #: 1		Γ	Matrix: S	oil	
Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]	,01	1~1		

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

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

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371873	805828
Work Order # :	Lab Batch ID:

Date Analyzed: 05/09/2010 828

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Batch #:	Analyst:
371873-020 S	05/08/2010
QC- Sample ID:	Date Prepared:

Matrix: Soil --ASA atch #:

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MAT	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE RECO	DVERY S	TUDY		
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	QN	0.1213	0.0905	75	0.1208	0.0778	64	15	70-130	35	×
Toluene	Q	0.1213	0.0875	72	0.1208	0.0763	63	14	70-130	35	x
Ethylbenzene	QN	0.1213	0.0884	73	0.1208	0.0780	65	13	71-129	35	×
m, p-Xylenes	QN	0.2426	0.1700	70	0.2416	0.1521	63	11	70-135	35	×
o-Xylene	ND	0.1213	0.0830	68	0.1208	0.0734	61	12	71-133	35	х
s 2010	QC-Sample ID: 371873-021 S Date Prepared: 05/10/2010	371873- 05/10/2(-021 S 010	Ba An	Batch #: Analyst: /	1 Matrix: Soil ASA	:: Soil				
Reporting Units: mg/kg		M	ATRIX SPIK	E / MAT	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE REC	DVERY S	TUDY		
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

70-135 70-130 70-130 71-129 71-133 ŝ 2 12 15 42 64 65 57 60 5 0.0644 0.0678 0.1470 0.0832 0.0732 0.1135 0.1135 0.2270 0.1135 0.1135 113 67 58 68 75 0.0752 0.0654 0.0765 0.1703 0.1278 0.1130 0.1130 0.1130 0.1130 0.2261 ĝ Ð Ð Ð Ð Ethylbenzene m,p-Xylenes o-Xylene Toluene Benzene

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

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

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

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Form 3 - MS / MSD Recoveries

Project Name: LR Chamberlain Tank Battery

Work Order #: 371873						Project ID:	ö				
Lab Batch ID: 805736 Date Analyzed: 05/08/2010	QC- Sample ID: 371873-020 S Date Prepared: 05/07/2010	371873- 05/07/2(020 S 010	Ba	Batch #: Analyst: I	1 Matrix BEV	Matrix: Soil				
Reporting Units: mg/kg		M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	RIX SPII	KE DUPLICA	TE REC	DVERY 5	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	<u>D</u>	8% [0]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	Ð	1210	1430	118	1200	1390	116	e	70-135	35	
C12-C28 Diesel Range Hydrocarbons	DN	1210	1130	93	1200	606	76	22	70-135	35	
Lab Batch ID: 805752 Date Analyzed: 05/08/2010	QC- Sample ID: 371873-034 S Date Prepared: 05/07/2010	371873- 05/07/2(034 S 010	Ba An	Batch #: Analyst: I	l Matrix: Soil BEV	t: Soil				
Reporting Units: mg/kg		W	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	RIX SPII	KE DUPLICA	TE REC	DVERY 5	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	S S		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesurt [A]	Added [B]	<u>5</u>	Х% [Ū]	Added [E]	Kesult [F]	%K [G]	%	%K	WKPD	
C6-C12 Gasoline Range Hydrocarbons	Ð	1170	1160	66	1180	1260	107	8	70-135	35	

35

70-135

9

71

839

1180

76

895

1170

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C12-C28 Diesel Range Hydrocarbons

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

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

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



Sample Duplicate Recovery



Project Name: LR Chamberlain Tank Battery

Work Order #: 371873					
Lab Batch #: 806338			Project I	D:	
	oared: 05/12/2010) Ana	lyst:LATC	OR	
QC- Sample ID: 371873-001 D Ba	tch #: 1	Ma	trix: Soil		
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	1180	1170	1	20	
Lab Batch #: 806340	•				
	oared: 05/12/2010) Ana	lyst:LATC	OR	
QC- Sample ID: 371873-021 D Ba	tch #: 1	Ma	trix: Soil		
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	497	487	2	20	
Lab Batch #: ⁸⁰⁵⁷⁴⁴					
Date Analyzed: 05/07/2010 Date Prep	oared: 05/07/2010		ılyst: JLG		
QC- Sample ID: 371873-001 D Ba	tch #: 1		trix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	13.0	13.7	6	20	
Lab Batch #: 805751					
	oared: 05/07/2010) Ana	lyst: JLG		
QC- Sample ID: 371873-021 D Ba	tch #: 1	Ma	trix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	11.0	9,94	10		

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

BRL - Below Reporting Limit

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S F	44	Hai		Ş						╇		selitalovime	-					_		\rightarrow		_	Laboratory Comments: Sample Containers Intact?	VOUS Free of Headspace (Labels on container(s)		Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	۲ ۳	
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Ŭ,		Project Name: LR Chamberlain Tank Battery	ā	P d		Panort Format		L	Ц	+	108 W910		-	×	<u> </u>	<u>×</u>	<u> ×</u>	<u> </u>	×	×	×	×		F	01	Гіте	1.08	
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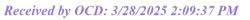
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e	Project Manager:	Company Name	Company Address: P. 0. Box 381	ja	ÿ	Sampler Signature		ſ.,		_	T-3 Sample 1 @ 2'	T-3 Sample 1 @ 5'	T-3 Sample 1 @ 7	T-3 Sample 2 @ 5'	T-3 Sample 3 @ 5'	T-3 Sample 4 @ 2'	T-3 Sample 4 @ 5'	T-4 Sample 1 @ 1.5'	T-4 Sample 2 @ 1.5'	T-4 Sample 3 @ 2			K	5
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Page 82 of 111

Final Ver. 1.000

Page 41 of 43



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Environmental Lab of Texas	jer: <u>Camike Bryant</u>	ne Basin Environmental Consulting, LLC	Company Address: P. O. Box 381	Lovington, NM 88260	(575)605-7210	ture:		578125	TIEL D. CONF.	T-4 Sample 3 @ 3'	T-5 Sample 1 @ 2'	T-5 Sample 1 @ 3.5'	T-5 Sample 2 @ 2'					South 5 Cleans
vironme	Project Manager:	Company Name	Company Add	City/State/Zip:	Telephone No:	Sampler Signature:	(lab use only)	-10 02		7 ,	T.	-1-5	·					Special Instructions:
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Basin Enu.
Date/ Time:	5.6.10 17.03
Lab ID # :	371873
initials:	AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.6 °C
#2	Shipping container in good condition?	(res)	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	(Yes)	No	
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No	
#11	Containers supplied by ELOT?	Yes	No	
#12		(Yes)	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yee	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable

Variance Documentation

Contact:		Contacted by:	Date/ Time:	
Regarding:		<u></u>		
Corrective Action Taker):			
				· · ·
Check all that Apply:		See attached e-mail/ fax Client understands and would like to Cooling process had begun shortly a		

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Analytical Report 379583

for

Basin Environmental Consulting, LLC

Project Manager: Camille Bryant

LR Chamberlain Tank Battery

02-JUL-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)





02-JUL-10



Project Manager: **Camille Bryant Basin Environmental Consulting, LLC** P.O. Box 381 Lovington, NM 88260

Reference: XENCO Report No: **379583** LR Chamberlain Tank Battery Project Address: Lea County, NM

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 379583. 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. 379583 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 379583

Basin Environmental Consulting, LLC, Lovington, NM

LR Chamberlain Tank Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 @ 5'	S	Jun-29-10 09:00		379583-001
SB-1 @ 10'	S	Jun-29-10 09:20		379583-002
SB-1 @ 15'	S	Jun-29-10 09:40		379583-003
SB-1 @ 20'	S	Jun-29-10 10:00		379583-004
SB-1 @ 25'	S	Jun-29-10 10:20		379583-005
SB-1 @ 30'	S	Jun-29-10 10:40		379583-006

CASE NARRATIVE



Client Name: Basin Environmental Consulting, LLC Project Name: LR Chamberlain Tank Battery



Project ID: Work Order Number: 379583 Report Date: 02-JUL-10 Date Received: 06/30/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-812913 Percent Moisture None

Batch: LBA-812925 Inorganic Anions by EPA 300 None

Batch: LBA-812933 BTEX by EPA 8021B SW8021BM

Batch 812933, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 379583-004, -001, -003, -005, -002, -006. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-813037 TPH By SW8015 Mod None

Basin Environmental Consulting, LLC, Lovington, NM **Certificate of Analysis Summary 379583** Project Name: LR Chamberlain Tank Battery

Released to Imaging: 3/28/2025 2:10:37 PM

Contact: Camille Bryant

Project Id:

Wed Jun-30-10 11:44 am

Date Received in Lab:

					Project Manager:]	Brent Barron, II	
	Lab Id:	379583-001	379583-002	379583-003	379583-004	379583-005	379583-006
Andheis Domostod	Field Id:	SB-1 @ 5'	SB-1 @ 10'	SB-1 @ 15'	SB-1 @ 20'	SB-1 @ 25'	SB-1 @ 30'
narcanhavi sistinut	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jun-29-10 09:00	Jun-29-10 09:20	Jun-29-10 09:40	Jun-29-10 10:00	Jun-29-10 10:20	Jun-29-10 10:40
Anions by E300	Extracted:						
	Analyzed:	Jun-30-10 16:16	Jun-30-10 16:33	Jun-30-10 16:50	Jun-30-10 17:07	Jun-30-10 17:24	Jun-30-10 17:41
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2170 48.1	1250 23.6	778 18.7	169 8.82	72.7 4.52	103 4.46
BTEX by EPA 8021B	Extracted:	Jun-30-10 13:45	Jun-30-10 13:45	Jun-30-10 13:45	Jun-30-10 13:45	Jun-30-10 13:45	Jun-30-10 13:45
	Analyzed:	Jun-30-10 17:02	Jun-30-10 18:31	Jun-30-10 18:53	Jun-30-10 19:16	Jun-30-10 19:38	Jun-30-10 20:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010	ND 0.0011	ND 0.0011
Toluene		ND 0.0023	ND 0.0023	ND 0.0022	ND 0.0021	ND 0.0022	ND 0.0021
Ethylbenzene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010	ND 0.0011	ND 0.0011
m,p-Xylenes		ND 0.0023	ND 0.0023	ND 0.0022	ND 0.0021	ND 0.0022	ND 0.0021
o-Xylene		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010	ND 0.0011	ND 0.0011
Total Xylenes		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0010	ND 0.0011	ND 0.0011
Total BTEX		ND 0.0011	ND 0.0011	1100.0 UN	ND 0.0010	ND 0.0011	ND 0.0011
Percent Moisture	Extracted:						
	Analyzed:	Jul-01-10 08:34	Jul-01-10 08:34	Jul-01-10 08:34	Jul-01-10 08:34	Jul-01-10 08:34	Jul-01-10 08:34
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		12.7 1.00	11.1 1.00	9.96 1.00	4.72 1.00	7.16 1.00	5.73 1.00
TPH By SW8015 Mod	Extracted:	Jun-30-10 13:10	Jun-30-10 13:10	Jun-30-10 13:10	Jun-30-10 13:10	Jun-30-10 13:10	Jun-30-10 13:10
	Analyzed:	Jun-30-10 19:19	Jun-30-10 19:48	Jun-30-10 20:18	Jun-30-10 20:47	Jun-30-10 21:17	Jun-30-10 21:48
	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 17.2	ND 16.8	ND 16.7	ND 15.8	ND 16.1	ND 15.8
C12-C28 Diesel Range Hydrocarbons		51.9 17.2	ND 16.8	ND 16.7	ND 15.8	ND 16.1	26.3 15.8
C28-C35 Oil Range Hydrocarbons		ND 17.2	ND 16.8	ND 16.7	ND 15.8	ND 16.1	ND 15.8
Total TPH		51.9 17.2	ND 16.8	ND 16.7	ND 15.8	ND 16.1	26.3 15.8

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 jugment 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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Page 5 of 18

Odessa Laboratory Manager

Brefit Barron, II



Flagging Criteria

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

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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(214) 902 0300

(210) 509-3334

(813) 620-2000

(305) 823-8500

(432) 563-1800

(361) 884-0371



Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

ork Orders : 379583 Lab Batch #: 812933	, Sample: 567101-1-BKS/B	KS Batc	Project I h: 1 Matrix			
Units: mg/kg	Date Analyzed: 06/30/10 15:08		RROGATE R	-	STUDY	
· · · · · · · · · · · · · · · · · · ·	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0306	0.0300	102	80-120	
4-Bromofluorobenzene		0.0287	0.0300	96	80-120	
Lab Batch #: 812933	Sample: 567101-1-BSD / B					
Units: mg/kg	Date Analyzed: 06/30/10 15:31	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analyus	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene		0.0295	0.0300	98	80-120	
Lab Batch #: 812933	Sample: 567101-1-BLK / B	LK Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 06/30/10 16:39		RROGATE R	-	STUDY	
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Amaiyues	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene		0.0230	0.0300	99	80-120	
Lab Batch #: 812933	Sample: 379583-001 / SMP		1	·· Soil		
Lab Batch #: 012933 Units: mg/kg	Date Analyzed: 06/30/10 17:02		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	
4-Bromofluorobenzene		0.0290	0.0300	97	80-120	
Lab Batch #: 812933	Sample: 379583-001 S / MS	S Bate	ch: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 17:23	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
	2 x x x x x y t v y			1 .	l	
1.4-Difluorobenzene		0.0287	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

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Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

ork Orders : 379583 Lab Batch #: 812933	·		Project I h: ¹ Matrix			
Units: mg/kg	Sample: 379583-001 SD / M Date Analyzed: 06/30/10 17:46		RROGATE R		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0292	0.0300	97	80-120	
4-Bromofluorobenzene		0.0289	0.0300	96	80-120	
Lab Batch #: 812933	Sample: 379583-002 / SMP	Bate	h: ¹ Matrix	c:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 18:31	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0260	0.0300	87	80-120	-
4-Bromofluorobenzene		0.0318	0.0300	106	80-120	
Lab Batch #: 812933	Sample: 379583-003 / SMP	Bate	h: ¹ Matrix	c:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 18:53	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount jBj	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0257	0.0300	86	80-120	
4-Bromofluorobenzene		0.0306	0.0300	102	80-120	
Lab Batch #: 812933	Sample: 379583-004 / SMP	Batc	h: ¹ Matrix	c: Soil	<u> </u>	
Units: mg/kg	Date Analyzed: 06/30/10 19:16		RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0256	0.0300	85	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	
Lab Batch #: 812933	Sample: 379583-005 / SMP	Batc	h: 1 Matrix	r:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 19:38	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes					
I,4-Difluorobenzene	Analytes	0.0257	0.0300	86	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 / BAll results are based on MDL and validated for QC purposes.

Received by OCD: 3/28/2025 2:09:37 PM.



Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

Vork Orders: 379583	,		Project I	D:		
Lab Batch #: 812933	Sample: 379583-006 / SMP	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 20:01	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0255	0.0300	85	80-120	
4-Bromofluorobenzene		0.0298	0.0300	99	80-120	
Lab Batch #: 813037	Sample: 567144-1-BKS / B	KS Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 06/30/10 17:49	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	120	00.0	ļ	70.125	<u> </u>
o-Terphenyl	······································	63.2	99.9 50.0	120	70-135	
		L			70-133	<u> </u>
Lab Batch #: 813037	Sample: 567144-1-BSD / B		h: 1 Matrix RROGATE R		TUDV	
Units: mg/kg	Date Analyzed: 06/30/10 18:19	50	KRUGATE K			
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chlorooctane		110	99.6	110	70-135	
o-Terphenyl		53.7	49.8	108	70-135	
Lab Batch #: 813037	Sample: 567144-1-BLK / B	BLK Bate	h: 1 Matrix	:Solid	1	
Units: mg/kg	Date Analyzed: 06/30/10 18:49	SU	RROGATE R	ECOVERY	STUDY	
TPH I	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.4	99.8	99	70-135	
o-Terphenyl	······································	57.4	49.9	115	70-135	
Lab Batch #: 813037	Sample: 379583-001 / SMF	Batc	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 19:19	SU	RROGATE R	ECOVERY	STUDY	
ТРНІ	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		ļ.
1-Chlorooctane	Analytes	101	100	[D] 101	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

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Project Name: LR Chamberlain Tank Battery

ork Orders : 379583 Lab Batch #: 813037	, Sample: 379583-002 / SMP	D - 4 - 1	Project I h: 1 Matrix			
	· · ·	Batel	RROGATE R		STUDY	
Units: mg/kg	Date Analyzed: 06/30/10 19:48				Control Limits %R 70-135 70-135 STUDY Control Limits %R 70-135 70-135 STUDY Control Limits %R 70-135 STUDY Control Limits %R 70-135 STUDY Control Limits %R 70-135 STUDY Control Limits %R 70-135 70-135	
TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Limits	Flags
	Analytes			[D]		
1-Chlorooctane		87.7	99.5	88	70-135	
o-Terphenyl		50.5	49.8	101	70-135	
Lab Batch #: 813037	Sample: 379583-003 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 06/30/10 20:18	SU	RROGATE R	ECOVERY S	STUDY	
TPHI	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Limits	Flags
	Analytes		· · · · · · · · · · · · · · · · · · ·	[D]		
1-Chlorooctane		90.7	101	90		
o-Terphenyl		52.2	50.3	104	70-135	
Lab Batch #: 813037	Sample: 379583-004 / SMP	Batc				
Units: mg/kg	Date Analyzed: 06/30/10 20:47	SU	RROGATE R	ECOVERY S	STUDY	
ТРН І	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Limits	Flags
	Analytes			[D]		
1-Chlorooctane		89.5	100	90	70-135	
o-Terphenyl		50.9	50.2	101	70-135	
Lab Batch #: 813037	Sample: 379583-005 / SMP	Bate	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 21:17	SU	RROGATE R	ECOVERY S	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Limits	Flags
1-Chlorooctane		99.2	99.5	100	70-135	
o-Terphenyl		57.3	49.8	115	70-135	
Lab Batch #: 813037	Sample: 379583-006 / SMP	Batc	h: ¹ Matrix	:Soil		
Units: mg/kg	Date Analyzed: 06/30/10 21:48	SU	RROGATE R	ECOVERY	STUDY	
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Limits	Flags
1-Chlorooctane		93.6	99.5	94	70-135	
-			1	1 1	1	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: LR Chamberlain Tank Battery

Vork Orders: 379583			Project I	(D :			
Lab Batch #: 813037	Sample: 379583-002 S / M						
Units: mg/kg	Date Analyzed: 07/01/10 13:40	SU	RROGATE R	ECOVERY	STUDY		
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	Analytes	112	100	112	70-135		
o-Terphenyl		54.7	50.2	109	70-135		
Lab Batch #: 813037	Sample: 379583-002 SD / 1	MSD Bate	ch: 1 Matri	x: Soil			
Units: mg/kg	Date Analyzed: 07/01/10 14:09	SU	JRROGATE R	ECOVERY	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		53.4	50.2	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 / BAll results are based on MDL and validated for QC purposes.

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Work Order #: 379583

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Project Name: LR Chamberlain Tank Battery

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Work Order #: 379583							Pro	Project ID:			
Analyst: ASA	Da	ite Prepar	Date Prepared: 06/30/2010	0			Date A	Date Analyzed: 06/30/2010	6/30/2010		
Lab Batch ID: 812933 Sample: 567101-1-BKS	I-BKS	Batch #:	n#: 1					Matrix: Solid	solid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / 1	3LANK S	PIKE DUPI	ICATE	RECOVE	CRY STUD	Y	\square
BTEX by EPA 8021B	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk	uuu	Control	Control	
	Sample Nesun [A]	Audea	opike Result	Spike %R	Added	оріке Duplicate	%R	%	LIMIUS %R	WRPD %	r izg
Analytes		[B]	[C]	ē	E	Result [F]	<u>[</u>]				
Benzene	Ð	0.1000	0.1096	110	0.1	0.1150	115	5	70-130	35	
Toluene	Q	0.1000	0.1006	101	0.1	0.1058	106	5	70-130	35	
Ethylbenzene	Q	0.1000	0.1054	105	0.1	0.1113	111	5	71-129	35	
m,p-Xylenes	Ð	0.2000	0.2136	107	0.2	0.2253	113	5	70-135	35	
o-Xylene	QN	0.1000	0.1042	104	0.1	0.1108	111	6	71-133	35	
Analyst: LATCOR	Da	ite Prepar	Date Prepared: 06/30/2010	0			Date A	Date Analyzed: 06/30/2010	6/30/2010		
Lab Batch ID: 812925 Sample: 812925-1-BKS	I-BKS	Batch #:	n#: 1					Matrix: Solid	olid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	3LANK S	PIKE DUPI	ICATE	RECOVE	CRY STUD	Y	
Anions by E300	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	Result [C]	1 % 10]	[E]	Duplicate Result [F]	8% [G]	%	%R	%RPD	

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Analytes Chloride 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

Page 96 of 111

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BS / BSD Recoveries

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Project Name: LR Chamberlain Tank Battery

Work Order #: 379583 Analyst: BEV

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Lab Batch ID: 813037

Date Prepared: 06/30/2010

Batch #: 1

Sample: 567144-1-BKS

Project ID: Date Analyzed: 06/30/2010 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / E	LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE 1	RECOVE	RY STUD	Y	
TPH By SW8015 Mod	Blank S Sample Result Ac	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[c]	[D]	[E]	Result [F]	[G]				
C6-C12 Gasoline Range Hydrocarbons	ÐN	666	1200	120	966	666	100	18	70-135	35	
C12-C28 Diesel Range Hydrocarbons	QN	666	858	86	966	813	82	5	70-135	35	

	Form 3 - MS Recoverie	s)
	Project Name: LR Chamberlain Tank	Battery
Work Order #: 379583		
Lab Batch #: 812925		Project ID:
Date Analyzed: 06/30/2010	Date Prepared: 06/30/2010	Analyst: LAT

Reporting Units: mg/kg	MATH	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	6.53	116	122	100	75-125	

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

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BRL - Below Reporting Limit

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Form 3 - MS / MSD Recoveries



: 379583	: 812933	1 : 06/30/2
Work Order #	Lab Batch ID:	Date Analyzed: 06/30/2

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Project Name: LR Chamberlain Tank Battery

Date Analyzed: 06/30/2010	Date Prepared: 06/30/2010	06/30/20	010	Ani	Analyst: ASA	ASA					
Reporting Units: mg/kg		M	ATRIX SPIK	E / MATI	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE RECO	OVERY S	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	QN	0.1150	0.0468	41	0.1145	0.0588	51	23	70-130	35	×
Toluene	QN	0.1150	0.0382	33	0.1145	0.0440	38	14	70-130	35	×
Ethylbenzene	QN	0.1150	0.0325	28	0.1145	0.0335	29	e	71-129	35	x
m, p-Xylencs	QN	0.2300	0.0660	29	0.2291	0.0670	29	2	70-135	35	x
o-Xylene	ΟN	0.1150	0.0299	26	0.1145	0.0304	27	2	71-133	35	х
7 2010	QC- Sample ID: 379583-002 S Date Prepared: 06/30/2010	379583- 06/30/20	002 S 010	Ba An	Batch #: Analyst:]	1 Matrix: Soil BEV	:: Soil				
Reporting Units: mg/kg		M	ATRIX SPIK	E / MATI	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE REC	OVERY S	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

35 35

70-135 70-135

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100 92

1130 1040

1130 1130

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C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Matrix Spike Percent Recovery [D] = 100*(C.A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)

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

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

Matrix: Soil

Batch #:

QC- Sample ID: 379583-001 S

Project ID:

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Sample Duplicate Recovery

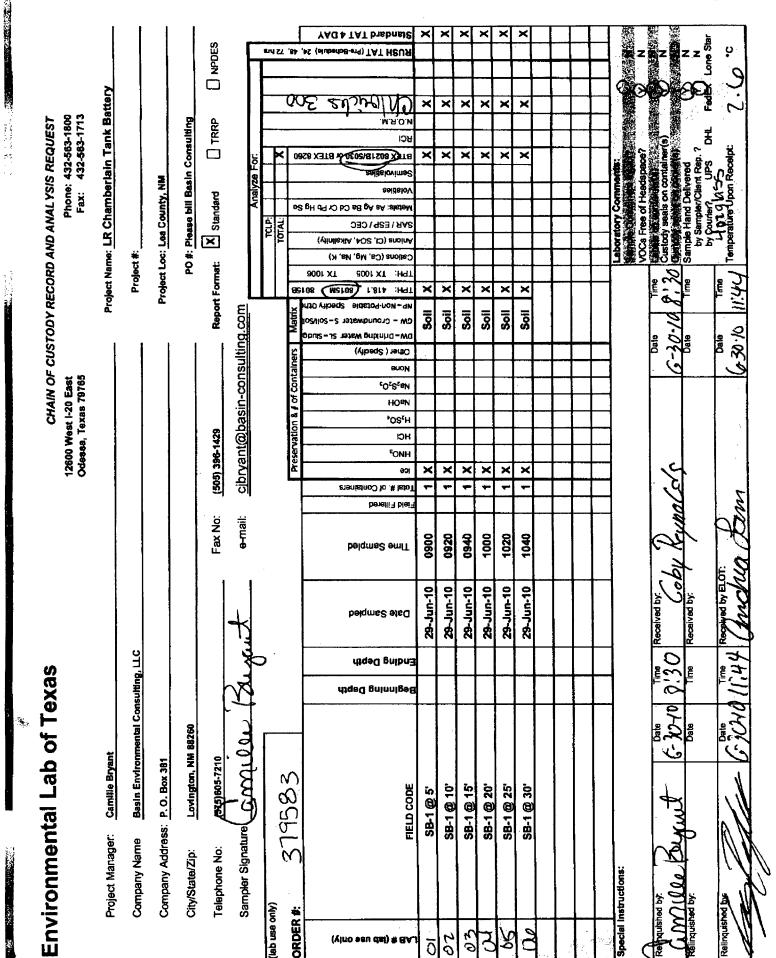


Project Name: LR Chamberlain Tank Battery

Work Order #: 379583

Lab Batch #: 812925			Project I	D:	
Date Analyzed: 06/30/2010 Date Prep	ared: 06/30/2010	0 Ana	lyst:LATC	OR	
QC- Sample ID: 379564-001 D Bat	ch #: 1	Mat	rix: Soil		
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	6.53	ND	NC	20	
Lab Batch #: 812913					
Det. A L J. 07/01/2010 Dete Dron	- 00101001	o			
Date Analyzed: 07/01/2010 Date Prep	ared: 07/01/2010	J Ana	lyst: JLG		
	ared: 07/01/2010 ch #: 1		lyst:JLG rix: Soil		
	ch #: 1		rix: Soil	ATE REC	OVERY
QC- Sample ID: 379564-001 D Bat	ch #: 1	Mat / SAMPLE	rix: Soil	ATE REC Control Limits %RPD	OVERY Flag

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



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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: B	asin Erw.	
Date/Time:	6.30.10 11:44	
Lab ID # :	379583	
Initials:	£L.	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Tes	No		
5. Sample instructions complete on chain of custody?	Yee	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Nes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	Yee	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	p	Cooler 5 No.	
ibs 7.0°C ibs °C ibs	°C Ibs	°C	lbs	°0

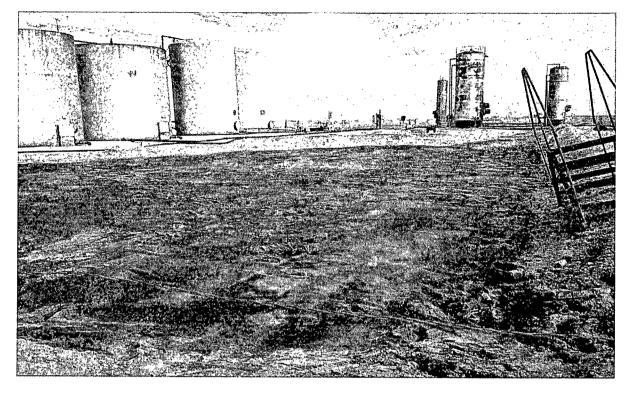
Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Tal	ien:		
Check all that apply:	□ Cooling process has begun shortly after samp condition acceptable by NELAC 5.5.8.3.1 □ Initial and Backup Temperature confirm out of □ Client understands and would like to proceed	.a.1. temperature conditions	

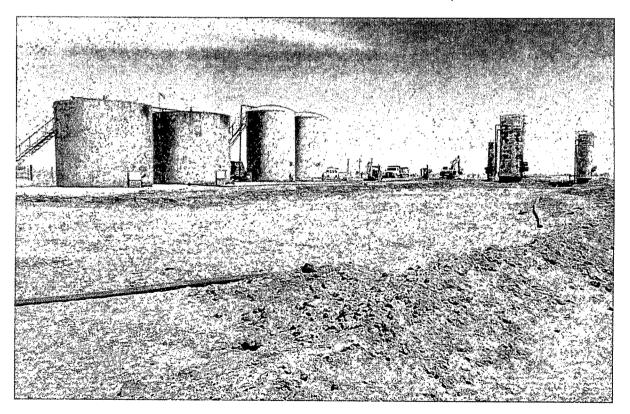
Appendix C Photographs

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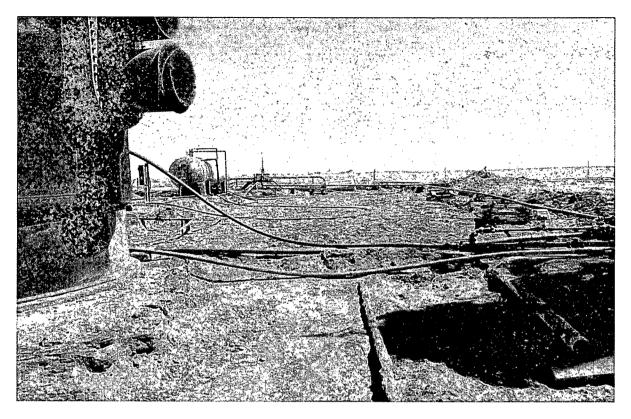
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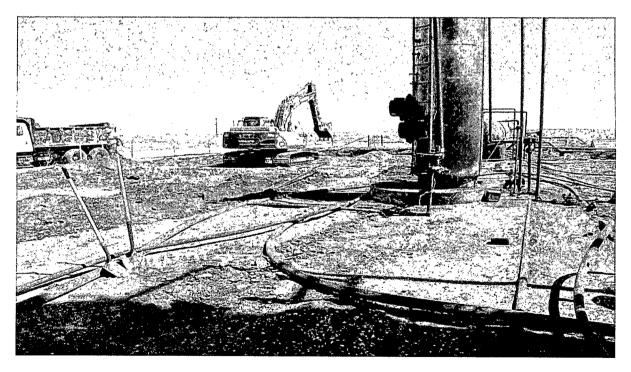
Initial Release at the LR Chamberlain Tank Battery



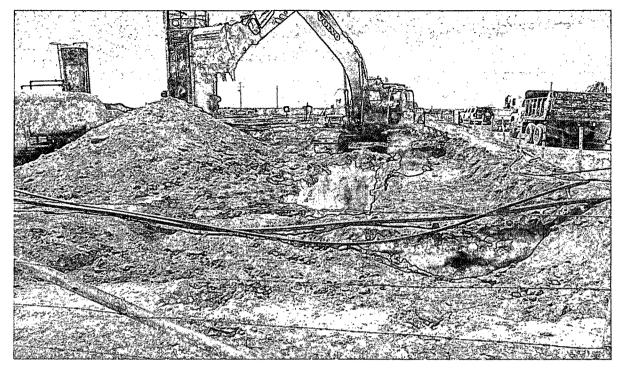
Excavation Activities at the LR Chamberlain Tank Battery Release Site



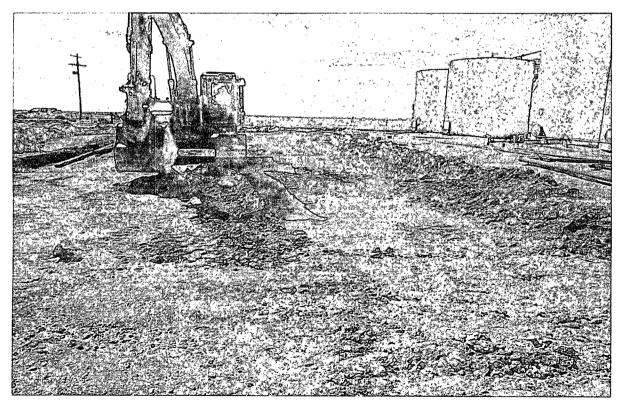
Excavation Activities at the LR Chamberlain Tank Battery Release Site



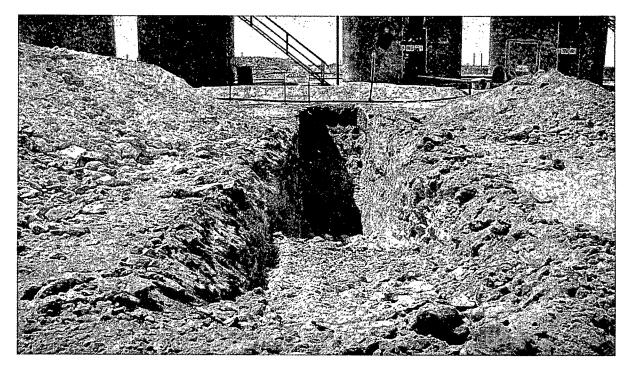
NE Corner Delineation Trench at the LR Chamberlain Tank Battery Release Site



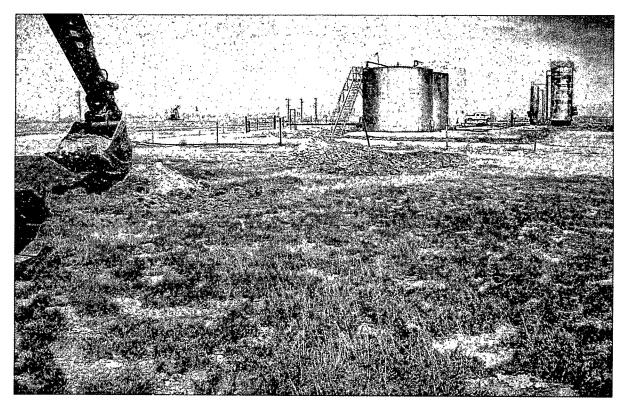
NE Corner Delineation Trench at the LR Chamberlain Tank Battery Release Site



S. Middle Delineation Trench at the LR Chamberlain Tank Battery Release Site



Delineation Trench #1 on the north side of the LR Chamberlain Tank Battery Release Site



Delineation Trench #4 on the west side of the LR Chamberlain Tank Battery Release Site

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

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LEGACY RESERVES

PAGPage 109 of 111

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<u>Janici I</u>
625 N. French Dr., Hobbs, NM 86240
<u>Visitiet II</u>
30) W. Cinad Avenue, Anazia, NM 86210
<u>Signict III</u>
(MO Rio Brazos Road, Azler, NM 87410
listrict IV
220 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

						OPE	RATOR		🛛 lı	tibul Report	Final Report
Name of C	ompany	Legacy Res	serves, Ll	2		Contact K	evia Bracey		12		ale and face. " At a second
Address 1	P. O. Box)	(0848, Midi	md, Toxs	is 79702		Telephone	No. 432-238-28	56			
Facility Na	me LR(Charobertsi	<u>n Tank P</u>	lattery		Facility Typ	ne Tank Batter	ý			و موجد بالد من مواد المراجع الم
Surface Ov	vner D2	rr Angell		Mineral (Wnor		······································		Lease 1	3	
				LOC	ATIO	N OF RE	LEASE			and the matter and the database of the second s	nin hand balance in a second secon
Unit Letter C	Section 14	Township 155	Range 37E	Feet from the			Ford from the	East/W	est Lige	County Len	
			Latitu	ide 33° 01 20.3'	" North		Longitude 10	<u>3° 10 16</u>	.6" West	۶ <u></u>	
				NAT	IURE	OF REL	EASE				
Type of Rea	ese Produ	ced Water and	i crude oil				Release 680 bbl	5	Volume F	tecovered 6001	obls
Source of Pa	ilcuse Tenl	5		ang ana ang ang ang ang ang ang ang ang		Date and 1 1/6/2010 (Iour of Occurrenc 2 0400		Date and 1/6/2010	Hour of Discove	ry
Was Immediate Notice Given? X Yes No Not Required				an a	If YES, TO Geoff Les	Wham?		2110/14-012		· ·	
By Whota?	Camille Br	yant				Date and F	lour 1/7/2010 @	1344		annan - analan kanan	
Was a Water	course Reed		Yes [Z No		FYES. V	slome Impacting t	he Water	course.		
II a Wateroo	urse was hit	photed, Descr	ibe Fully."	anne an San Anna an Ann Anna An		<u>}</u>	and have provide the second	an teap to the second sectors.			, , , , ,
Describe Ca	ee of Probl	om and Rome	dial Actio	n Token: The tra IOCD guidelines.	nsfer lir	16 on a 500 ba	mel tank became	obstructe	al resultin	g in a release of	produced water
						moroinately 2	7,000 square feet	inside th	e teak bat	éerv.	
I hereby cert	ify that the	information ;	ziven abor	e is true and con	nplete i	to the best of	my knowledge at	nd under	stand tilat	pursuant to NM	OCD raies and
regulations a	ill operators	are required	to report	and/or file certai	n releas	e notification	s and perform co	crective s	uctions for	r releases, which	may andanger
public health	or the cavi	roumeni. Th	e accepta	10e of a C-141 m	port by	the NMOCD	marked as "Fine	i Report'	does not	selieve the oper	ater of liability
or the enviro	uperations a nunchi. In	additicat. NM	aneduared IOCD wee	y mycsugais anu eviauce of a C-1	remeau Al new	are concavant ve daes not e	tion that pose a the slieve the operato	n ac seen	consta Wat constative	EF, SUITACE WALE) for compliance	(, Auman acalm with new other
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Signature:	y Monsi	M Bro	and the second	and and a second se			ENV. ENGINE	UR.			
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and the t					Low Mark		l l . d			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0

Title: Production Foreman		Approval Date: 01/11/10	Expiration Date: 0311110
E-mail Address: Khracey@legacylp.com	·	Conditions of Approval: DELINERT	S 10
Date: 1/7/2010	Phone: 432-238-2856		IRP-10-01-2-390

RECEIVED

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HURRDULL

LEGACY RESERVES

District I 1615 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1009 Rio Branos Road, Artes, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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State of New Mexico Energy Minerals and Natural Resources

Form C-14 Revised October 10, 200

n market and a state of the state

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to apotoprist District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

					OPEI	RATOR	*	XI	vitial Report	Final Repo
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Surface Ow	mer Dan Ar	ngell	Mineral O	witer				Lease)	ie.	ىرى ھەرىپىي ھە ئەرە يەتەر مەرەمە يورىيە بەرەمە يەرەپىيە بەرەپىيە بەرەپىيە بەرەپىيە بەرەپىيە بەرەپىيە بەرەپىيە ب
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			NAT		n relj					
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	Camilie Eryant		الم		Date and Hour 5/6/10 @ 8900					
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If a Watercon	erse was impacte	d, Describe F	utiy.*	•••• •• •••	annanga, an h-is <u>in -</u> drahaga galanta.	annaigh an	1.0744 ⁴ 1.4743.1743.1476 ⁴ 1.4	المحيف سارية ومراجع ومحمو الم	antan da ang paggada ana da ana ana tanana da	
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Dosoribe Are	a Affeoted and C	Reamp Actio	n Taken. Release impai	cled appro	ministely 8	,470 square feet is	nside the	tank batte	TY.	
regulations at public health should their o or the enviro	ll operators are t or the environm operations have f	required to re tent. The dec failed to adeq tion, NMOCL	above is true and com port and/or file centain reptance of a C-141 rep unlely investigate and r D acceptance of a C-14 ris.	velcase n out by the emediate	otifications s NMOCD contaminat	and perform con marked as "Final ion that pose a th	nective a l Report" reat to gr	ctions for does not tound wat	releases, which relieve the oper er, surface water	nay endanger ator of lightlity human health
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Signature:	Lough	Draite		Ag	s proved by l	ent Enclindes Bistrict Supervise	rîng; F			
Printesi Nama	: Kevin Sracey		<u> </u>		ana mata kasa a tata a sama	ىدىنىيە مورۇپلىتىدەرىت مەرەپ مۇرۇپىيە، بىرى	بیته استنسب میشونیس .	<u>hosiin</u>	202 Harring	
Title: Produc	tion Foreman			An	proval Dan	<u>nosficijo</u>	Ex	piration I	<u>part - o Thy</u>	<u> 0</u>
E-meil Addre	ss: kbracey@leg	acylp.com	1999 an 1-9-96 a sama an 1-96 a	Co	nditions of	Approval:			a Manua ya Kata Indonesia	
Date: 5/7/10	an a sa an		Phone: 432-238-2856			المرور مراجع والمراجع			1187-10.5.	<u>>565 </u>
										2513

RECEIVEL Inc. I U. C. HODBOULL

. بر Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
TEAM OPERATING, L.L.C.	332148
PO Box 835	Action Number:
Pinehurst, TX 77362	446742
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/28/2025

Action 446742