MARTIN YATES, III 1912-1985

,

FRANK W YATES

5.P YATES



ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471

X

November 3, 2011

Mr. Mike Bratcher NMOCD District II 811 S. First Street Artesia, NM 88210

Re: Warren ANW Federal #3 Battery 30-015-28598 Section 9, T19S-R25E Eddy County, New Mexico

Dear Mr Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on 9/29/2011 (unknown MCF released and 0 MCF recovered). The C-141 Initial Report was submitted to your office on October 11, 2011. Impacted soils were excavated from the release area and stock piled on a plastic liner on location. Vertical and horizontal delineation samples were taken from the excavation and stock pile on 10/13/2011 and sent to an NMOCD approved laboratory. Enclosed are the analytical reports, results show TPH and BTEX, to be below RRAL's, based on a site ranking of zero (depth to ground water recorded at 260' per NMOSE, Section 9, T19S-R25E); Yates Petroleum Corporation requests closure, using stock piled excavated material as backfill, based on enclosed analytical results.

If you have any questions, please call me at 575-748-4111

Thank you.

YATES PETROLEUM CORPORATION

Amber Cannon Environmental Regulatory Agent

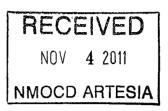
/anc Enclosure(s) JOHN A. YATES CHAIRMAN OF THE BOARD

JOHN A YATES JR. PRESIDENT

SCOTT M. YATES

JAMES S. BROWN CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER



Warren ANW Federal #3 Battery

.

Analytical Report- 429589 & 429584	Sample Area	Sample Date	Sample Type	Depth:	втех	GRO	DRO	TOTAL	Chlorides
N #1	Release Area	10/13/2011	Grab/Shovel	4'	0.0444	ND	35	35	25.1
N #2	Release Area	10/13/2011	Grab/Shovel	4'	0.179	ND	45.1	45.1	19.3
N #3	Release Area	10/13/2011	Grab/Shovel	4'	0.462	ND	28.8	28.8	221
N #4	Release Area	10/13/2011	Grab/Shovel	4'	ND	ND	ND	ND	160
S #1	Release Area	10/13/2011	Grab/Shovel	4'	ND	ND	58.5	58.5	10.8
S #2	Release Area	10/13/2011	Grab/Shovel	4'	0.0249	ND	37.8	37.8	65
S #3	Release Area	10/13/2011	Grab/Shovel	4'	0.0151	ND	42.8	42.8	313
S #4	Release Area	10/13/2011	Grab/Shovel	4'	ND	ND	ND	ND	264
B #1	Release Area	10/13/2011	Grab/Shovel	4'	1.06	97.1	177	274	24.9
B #2	Release Area	10/13/2011	Grab/Shovel	4'	1.18	84.3	185	269	40.2
.B #3	Release Area	10/13/2011	Grab/Shovel	4'	0.00599	ND	72.2	72.2	274
 В #4	Release Area	10/13/2011	Grab/Shovel	4'	0.679	32.2	73.8	106	108
B #0	Release Area	10/13/2011	Grab/Shovel	4'	10.3	590	997	1590	99.6
SP #1	Release Area	10/13/2011	Grab/Shovel	1'	0.0133	ND	72.4	72.4	193
SP #2	Release Area	10/13/2011	Grab/Shovel	1'	0.242	163	258	421	36.7
SP #3	Release Area	10/13/2011	Grab/Shovel	1'	0.895	143	235	378	58.8

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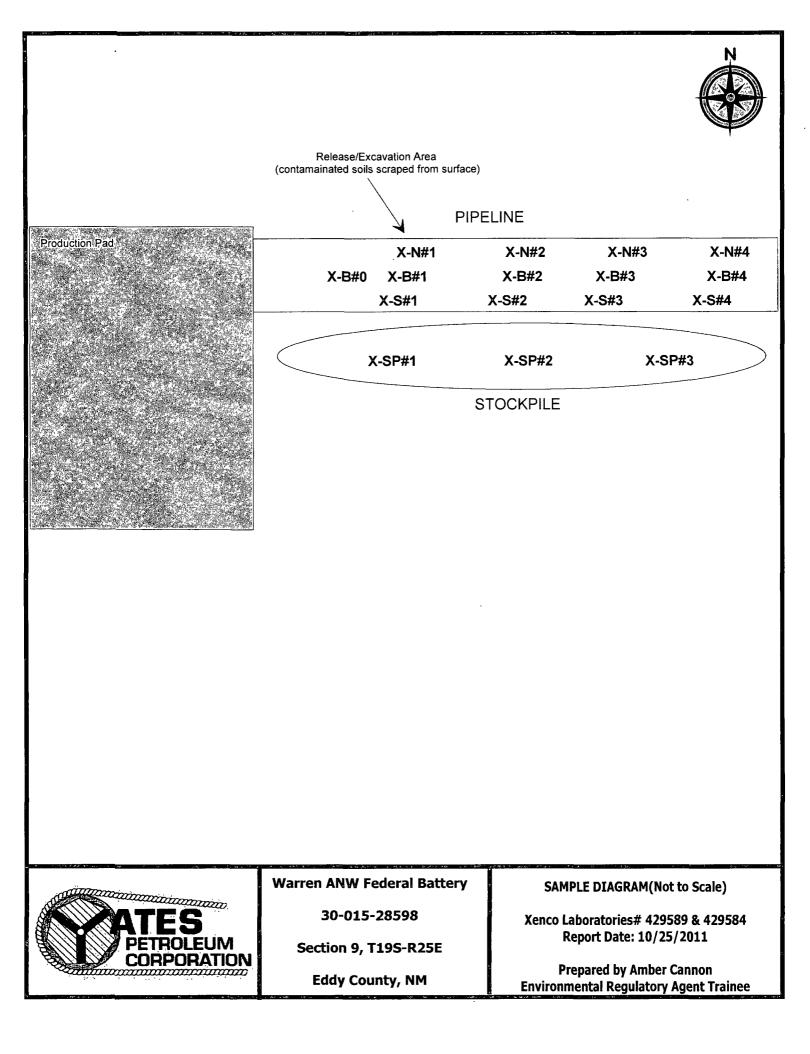
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Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 260', Section 9-19S-25E, per NMOSE).

All results are ppm.Chlorides for documentation. X - Sample Points

Released: Unknown MCF Gas; Recovered: 0 MCF Gas. Release Date: 9/29/2011

.



Analytical Report 429584

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Warren Battery

30-015-28598

25-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ000989): Arizona (AZ0758)



25-OCT-11

Project Manager: **Amber Cannon Yates Petroleum Corporation** 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **429584 Warren Battery** Project Address: Eddy County

Amber Cannon:

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 429584. 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. 429584 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 429584

Yates Petroleum Corporation, Artesia, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
N #1	S	10-13-11 14:20	4 - 4 ft	429584-001
N #2	S	10-13-11 14:30	4 - 4 ft	429584-002
N #3	S	10-13-11 14:40	4 - 4 ft	429584-003
N #4	S	10-13-11 14:50	4 - 4 ft	429584-004
S #1	S	10-13-11 15:00	4 - 4 ft	429584-005
S #2	S	10-13-11 15:10	4 - 4 ft	429584-006
S #3	S	10-13-11 15:20	4 - 4 ft	429584-007
S #4	S	10-13-11 15:30	4 - 4 ft	429584-008
B #1	S	10-13-11 15:40	4 - 4 ft	429584-009
B #2	S	10-13-11 15:50	4 - 4 ft	429584-010
B #3	S	10-13-11 16:00	4 - 4 ft	429584-011
B #4	S	10-13-11 16:10	4 - 4 ft	429584-012
B #0	S	10-13-11 16:20	4 - 4 ft	429584-013
Stock Pile #1	S	10-13-11 16:30	1 - 1 ft	429584-014
Stock Pile #2	S	10-13-11 16:40	1 - 1 ft	429584-015
Stock Pile #3	S	10-13-11 16:50	1 - 1 ft	429584-016



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Warren Battery



 Project ID:
 30-015-28598

 Work Order Number:
 429584

Report Date: 25-OCT-11 Date Received: 10/14/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872871 BTEX by EPA 8021B SW8021BM

Batch 872871, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, Toluene, m_p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Samples affected are: 429584-002, -004, -008, -007, -014, -001, -006. The Laboratory Control Sample for Toluene, o-Xylene, Ethylbenzene, m_p-Xylenes is within laboratory Control Limits

SW8021BM

Batch 872871, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 429584-014.

Batch: LBA-872885 TPH By SW8015B Mod SW8015B_NM

Batch 872885, 1-Chlorooctane, o-Terphenyl recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 429584-003.

Batch: LBA-872889 Percent Moisture RPD recoverd outside QC limits between the sample and sample duplicate.





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Client Name: Yates Petroleum Corporation Project Name: Warren Battery



 Project ID:
 30-015-28598

 Work Order Number:
 429584

Report Date: 25-OCT-11 Date Received: 10/14/2011

Batch: LBA-872977 BTEX by EPA 8021B SW8021BM

Batch 872977, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 429584-011,429584-012,429584-013. 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 429584-011,429584-015,429584-012.

Batch: LBA-873110 BTEX by EPA 8021B SW8021BM

Batch 873110, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 429584-009.



Certificate of Analysis Summary 429584

Yates Petroleum Corporation, Artesia, NM

Project Name: Warren Battery



Project Id: 30-015-28598 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 25-OCT-11

roject Location: Eddy County								Project Ma	nager:	Brent Barron	II		
	Lab Id:	429584-	001	429584-	002	429584-0	003	429584-	004	429584-	005	429584-	006
Anglania Democrated	Field Id:	N #1		N #2	N #2		N #3		N #4		S #1		
Analysis Requested	Depth:	4-4 f	t	4-4 f	4-4 ft		4-4 ft		4-4 ft		4-4 ft		t
	Matrix:	SOLI	D	SOLI	D	SOLIE)	SOLII)	SOLII)	SOLI	Ð
	Sampled:	Oct-13-11	14·20	Oct-13-11	14:30	Oct-13-11	14.40	Oct-13-11	14.50	Oct-13-11	15 00	Oct-13-11	15 10
BTEX by EPA 8021B	Extracted:	Oct-20-11	15.00	Oct-20-11	15.00	Oct-24-11	09:06	Oct-20-11	15.00	Oct-24-11	09.06	Oct-20-11	15:00
	Analyzed:	Oct-20-11	23.52	Oct-21-11	00.15	Oct-24-11	12 01	Oct-21-11	00.38	Oct-24-11	13.09	Oct-21-11	01:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0 00153	0 00101	0 00484	0 00101	ND	0 0254	ND	0 00102	ND	0 0256	ND	0 00101
Toluene		0.00789	0 00203	0 0478	0 00202	ND	0 0508	ND	0 00203	ND	0 0512	0.00510	0 00203
Ethylbenzene		0 00413	0.00101	0.0180	0 00101	ND	0 0254	ND	0 00102	ND	0 0256	0 00207	0 00101
m_p-Xylenes		0 0220	0 00203	0.0854	0.00202	0 139	0 0508	ND	0 00203	ND	0 0512	0 0125	0 00203
o-Xylene		0 00884	0 00101	0.0229	0 00101	0.323	0 0254	ND	0.00102	ND	0 0256	0 00525	0 00101
Total Xylenes		0 0308	0 00101	0 108	0 00101	0 462	0 0254	ND	0 00102	ND	0 0256	0 0178	0 00101
Total BTEX		0 0444	0 00101	0.179	0 00101	0 462	0 0254	ND	0 00102	ND	0 0256	0 0249	0 00101
Percent Moisture	Extracted:												
	Analyzed:	Oct-17-11	14:40	Oct-17-11	14:40	Oct-17-11	14 40	Oct-17-11	14.40	Oct-17-11	14 40	Oct-17-11	14.40
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		1 97	1 00	2 18	1.00	2.28	1 00	2.10	1 00	2.81	1 00	1.54	1 00
TPH By SW8015B Mod	Extracted:	Oct-20-11	12:45	Oct-19-11	13.45	Oct-19-11	13:45	Oct-19-11	13 45	Oct-19-11	13:45	Oct-19-11	13.45
	Analyzed:	Oct-21-11	17.11	Oct-21-11	08 03	Oct-21-11	08.43	Oct-21-11	09.18	Oct-19-11	22.42	Oct-19-11	23.20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	153	ND	15 3	ND	15 3	ND	15 3	ND	15 4	ND	15.2
C10-C28 Diesel Range Hydrocarbons		35 0	15.3	45.1	15 3	28 8	15.3	ND	15.3	58 5	15 4	37 8	15.2
Total TPH		35.0	15.3	45.1	15 3	28.8	153	ND	15 3	58 5	15 4	37 8	15.2

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

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Brent Barron II Odessa Laboratory Manager



Certificate of Analysis Summary 429584

Yates Petroleum Corporation, Artesia, NM

Project Name: Warren Battery



Project Id: 30-015-28598 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:54 pm Report Date: 25-OCT-11

oject Eocation: Eddy County								Project Ma	nager:	Brent Barron	II		
	Lab Id:	429584-	007	429584-0	008	429584-0	009	429584-	010	429584-	011	429584-	012
Anglusis Degrasted	Field Id:	S #3		S #4		B #1		B #2		B #3		B #4	
Analysis Requested	Depth:	4-4 fi	4-4 ft		4-4 ft		4-4 ft		İ.	4-4 ft		4-4 ft	
۵	Matrix:	SOLI	D	SOLII)	SOLIE)	SOLI	D	SOLE	D	SOLI	D
	Sampled:	Oct-13-11	15.20	Oct-13-11	15.30	Oct-13-11	15:40	Oct-13-11	15.50	Oct-13-11	16 00	Oct-13-11	16 10
BTEX by EPA 8021B	Extracted:	Oct-20-11	15.00	Oct-20-11	15.00	Oct-24-11	09.06	Oct-24-11	09 06	Oct-21-11	13 45	Oct-21-11	13.45
	Analyzed:	Oct-21-11	01:23	Oct-21-11	01.47	Oct-24-11	13.55	Oct-24-11	14.41	Oct-22-11	05.06	Oct-22-11	06.15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0 00105	ND	0 00105	ND	0 0254	0 0347	0 0253	0 00599	0 00535	0 0474	0.0105
Toluene		0 00234	0 00209	ND	0 00210	0 0979	0 0507	0 223	0 0507	ND	0 0107	0 211	0 0209
Ethylbenzene		ND	0 00105	ND	0 00105	0.0672	0 0254	0 0666	0 0253	ND	0 00535	0 0398	0 0105
m_p-Xylenes		0 00603	0 00209	ND	0.00210	0 444	0 0507	0 392	0 0507	ND	0 0107	0 243	0 0209
o-Xylene		0.00670	0 00105	ND	0.00105	0 448	0 0254	0 468	0 0253	ND	0.00535	0 138	0 0105
Total Xylenes		0 0127	0 00105	ND	0 00105	0 892	0 0254	0 860	0 0253	ND	0 00535	0 381	0.0105
Total BTEX		0 0151	0 00105	ND	0 00105	1.06	0 0254	1.18	0 0253	0 00599	0.00535	0 679	0 0105
Percent Moisture	Extracted:												
	Analyzed:	Oct-17-11	14 40	Oct-17-11	14:40	Oct-17-11	14.40	Oct-17-11	14.40	Oct-17-11	14:52	Oct-17-11	14 52
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.58	1 00	4 16	1 00	1.23	1 00	1.69	1 00	5 72	1 00	3 65	1.00
TPH By SW8015B Mod	Extracted:	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13:45
	Analyzed:	Oct-19-11	23.56	Oct-20-11	00 32	Oct-20-11 (01.07	Oct-20-11	01.42	Oct-20-11	03:26	Oct-20-11	04.00
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	15.7	ND	156	97.1	15.2	84.3	15 3	ND	15.8	32.2	15.6
C10-C28 Diesel Range Hydrocarbons		42.8	15 7	ND	15.6	177	15.2	185	15.3	72 2	15.8	73.8	15.6
Total TPH		42.8	15.7	ND	15.6	274	15.2	269	15.3	72.2	15.8	106	15.6

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Brent Barron II Odessa Laboratory Manager

Project Id: 30-015-28598

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 429584

Yates Petroleum Corporation, Artesia, NM

Project Name: Warren Battery



Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 25-OCT-11

oject Location: Eddy County											
								Project Ma	nager:	Brent Barron II	
	Lab Id:	429584-	013	429584-	014	429584-0	015	429584-()16		
Ann Lunia Dana anta d	Field Id:	B #0		Stock Pil	e #1	Stock Pile	e #2	Stock Pile	e #3		
Analysis Requested	Depth:	4-4 f	t	1-1 fi		1-1 ft		1-1 ft			
	Matrix:	SOLI	D	SOLI	D C	SOLII	5	SOLII)		
	Sampled:	Oct-13-11	16.20	Oct-13-11	16.30	Oct-13-11	16.40 .	Oct-13-11	16 50		
BTEX by EPA 8021B	Extracted:	Oct-21-11	13.45	Oct-20-11	15.00	Oct-21-11	13:45	Oct-21-11	13 45		
	Analyzed:	Oct-22-11	07:23	Oct-21-11	02 09	Oct-22-11	08.09	Oct-22-11	09 40		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		0.0577	0.0256	ND	0 00104	ND	0 00510	ND	0 0512		
Toluene		0 683	0 0513	ND	0 00208	0 0156	0 0102	ND	0 102		
Ethylbenzene		0 820	0.0256	ND	0 00104	0 0124	0 00510	0 0635	0 0512		
m_p-Xylenes		5.48	0.0513	0 00514	0 00208	0 0888	0 0102	0 333	0 102		
o-Xylene		3.26	0 0256	0 00820	0.00104	0 125	0 00510	0 498	0 0512		
Total Xylenes		8.74	0 0256	0 0133	0.00104	0 214	0 00510	0 831	0 0512		
Total BTEX		10 3	0 0256	0 0133	0 00104	0 242	0 00510	0 895	0 0512		
Percent Moisture	Extracted:	•									
	Analyzed:	Oct-17-11	14.52	Oct-17-11	14:52	Oct-17-11	14 52	Oct-17-11	14.52		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		2 05	1 00	2.77	1 00	1.26	1.00	1.59	1.00		
TPH By SW8015B Mod	Extracted:	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13.45	Oct-19-11	13:45		
	Analyzed:	Oct-20-11	04:34	Oct-20-11	05.08	Oct-20-11	05:42	Oct-20-11	06.15		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C10 Gasoline Range Hydrocarbons		590	76.5	ND	15.5	163	75 9	143	76.3		
C10-C28 Diesel Range Hydrocarbons		997	76 5	72.4	15 5	258	75.9	235	76 3		
Total TPH		1590	76 5	72 4	15.5	421	75.9	378	76 3		

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

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Brent Barron II Odessa Laboratory Manager



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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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Project Name: Warren Battery

Vork Orders : 429584		Bate		D: 30-015-28	<u>5</u> 98	
Lab Batch #: 872885	Sample: 429584-005 / SMP Date Analyzed: 10/19/11 22:42		RROGATE RI		STUDY	
Units: mg/kg TPH B	Bate Analyzed: 10/15/11/22.42	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		108	100	108	70-135	
o-Terphenyl		56.0	50 0	112	70-135	
Lab Batch #: 872885	Sample: 429584-006 / SMP	Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/19/11 23:20	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	Sy SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		83.1	99.8	83	70-135	
o-Terphenyl		40.6	49.9	81	70-135	
Lab Batch #: 872885	Sample: 429584-007 / SMP	Batc	h: ¹ Matrix	:Solid	1	
Units: mg/kg	Date Analyzed: 10/19/11 23:56		RROGATE R		STUDY	
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		86.6	100	87	70-135	
o-Terphenyl		44.8	50.0	90	70-135	
Lab Batch #: 872885	Sample: 429584-008 / SMP	Batc	h: l Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/20/11 00:32	SU	RROGATE R	ECOVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		90 1	99 6	90	70-135	
o-Terphenyl		46 8	49 8	94	70-135	
Lab Batch #: 872885	Sample: 429584-009 / SMP	Bate	h: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 10/20/11 01:07	su	RROGATE R	ECOVERY	STUDY	
ТРН Е	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
i-Chlorooctane		82.5	99.8	83	70-135	
o-Terphenyl		41 1	49.9	82	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



Project Name: Warren Battery

Vork Orders : 429584	1, Sample: 429584-010 / SMP	Potol		D: 30-015-28:	598	
Lab Batch #: 872885 Units: mg/kg	Date Analyzed: 10/20/11 01:42	Batch SUF	RROGATE RE	-	STUDY	
r	Bate Analyzed: 10/20/11 01.42 By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		I
1-Chlorooctane		91.8	100	92	70-135	·
o-Terphenyl		45.2	50 2	90	70-135	
Lab Batch #: 872885	Sample: 429584-011 / SMP	Batch	h: l Matrix:	, Solid		•
Units: mg/kg	Date Analyzed: 10/20/11 03:26	SUF	RROGATE RE	COVERY	STUDY	
ТРН В	3y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		104	99.5	105	70-135	ī
o-Terphenyl		52 5	49.8	105	70-135	ī
Lab Batch #: 872885	Sample: 429584-012 / SMP	Batch	h: ¹ Matrix:	: Solid	<u> </u>	<u></u>
Units: mg/kg	Date Analyzed: 10/20/11 04:00		RROGATE RE		STUDY	<u></u>
ТРН В	3y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		I
1-Chlorooctane		104	100	104	70-135	·
o-Terphenyl		52 9	50 1	106	70-135	
Lab Batch #: 872885	Sample: 429584-013 / SMP	Batch				
Units: mg/kg	Date Analyzed: 10/20/11 04:34	SUF	RROGATE RE	COVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		123	99.9	123	70-135	
o-Terphenyl	· · · ·	55 2	50.0	110	70-135	ſ <u></u>
Lab Batch #: 872885	Sample: 429584-014 / SMP	Batch	h: ¹ Matrix:	: Solid	<u> </u>	R
Units: mg/kg	Date Analyzed: 10/20/11 05:08		RROGATE RE		STUDY	
	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		99.6	100	100	70-135	ŀ
o-Terphenyl		48.6	50.2	97	70-135	[

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Project Name: Warren Battery

Work Orders : 429584			0	: 30-015-28	598	
Lab Batch #: 872885	Sample: 429584-015 / SMP	Batch	n: 1 Matrix: RROGATE RE		TUNY	<u> </u>
Units: mg/kg	Date Analyzed: 10/20/11 05:42		KRUGALE KE	CUVERIS		
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		110	99 9	110	70-135	
o-Terphenyl		55 3	50 0	111	70-135	
Lab Batch #: 872885	Sample: 429584-016 / SMP	Batcł	h: ¹ Matrix:	Solıd		
Units: mg/kg	Date Analyzed: 10/20/11 06:15	SUI	RROGATE RE	COVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		104	100	104	70-135	
o-Terphenyl		52.1	50.1	104	70-135	
Lab Batch #: 872871	Sample: 429584-001 / SMP	Batcl	h: 1 Matrix:	Solid	<u>I</u> I	
Units: mg/kg	Date Analyzed: 10/20/11 23:52		RROGATE RE		STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Dıfluorobenzene		0 0248	0 0300	83	80-120	
4-Bromofluorobenzene		0 0292	0.0300	97	80-120	
Lab Batch #: 872871	Sample: 429584-002 / SMP	Batel				
Units: mg/kg	Date Analyzed: 10/21/11 00:15	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R D]	Control Limits %R	Flags
1.4-Difluorobenzene	Analytes	0 0245	0.0300	82	80-120	
4-Bromofluorobenzene		0 0243	0.0300	101	80-120	
Lab Batch #: 872871	Sample: 429584-004 / SMP					<u>L</u>
	· –	Batcl	RROGATE RE		STUDY	<u></u>
Units: mg/kg	Date Analyzed: 10/21/11 00:38				· · · · ·	
BTE2	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Dıfluorobenzene		0 0256	0.0300	85	80-120	
4-Bromofluorobenzene		0 0267	0 0300	89	80-120	ĺ

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Project Name: Warren Battery

Work Orders: 429584	-	_	_	30-015-28	598	
Lab Batch #: 872871	Sample: 429584-006 / SMP	Batch	h: 1 Matrix: RROGATE RE		STUDY	
Units: mg/kg BTE2	Date Analyzed: 10/21/11 01:01 X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]	-	
1,4-Ditluorobenzene		0 0247	0 0300	82	80-120	
4-Bromofluorobenzene		0.0296	0.0300	99	80-120	
Lab Batch #: 872871	Sample: 429584-007 / SMP	Bate				
Units: mg/kg	Date Analyzed: 10/21/11 01:23	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0 0251	0.0300	84	80-120	
4-Bromofluorobenzene		0.0294	0.0300	98	80-120	
Lab Batch #: 872871	Sample: 429584-008 / SMP	Batc	h: ¹ Matrix:	Solıd	<u>.</u>	
Units: mg/kg	Date Analyzed: 10/21/11 01:47	SU	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0264	0.0300	88	80-120	
4-Bromotluorobenzene		0 0287	0.0300	96	80-120	
Lab Batch #: 872871	Sample: 429584-014 / SMP	Bate				
Units: mg/kg	Date Analyzed: 10/21/11 02:09	SU	RROGATE RE	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0238	0.0300	79	80-120	**
4-Bromofluorobenzene		0 0284	0.0300	95	80-120	
Lab Batch #: 872885	Sample: 429584-002 / SMP	Batc	h: 1 Matrix	Solid	·	
Units: mg/kg	Date Analyzed: 10/21/11 08:03		RROGATE RI		STUDY	
ТРН Н	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	106	100	106	70-135	
o-Terphenyl		52 7	50.0	105	70-135	

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Project Name: Warren Battery

Vork Orders : 429584		D (1	-): 30-015-28:	598	
Lab Batch #: 872885	Sample: 429584-003 / SMP	Batch	n: 1 Matrix: RROGATE RE		STUDY	
Units: mg/kg	Date Analyzed: 10/21/11 08:43 By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
l-Chlorooctane		67.3	100	67	70-135	. **
o-Terphenyl		34 2	50 0	68	70-135	**
Lab Batch #: 872885	Sample: 429584-004 / SMP	Batch				
Units: mg/kg	Date Analyzed: 10/21/11 09:18	SUI	RROGATE RE	COVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		72.2	100	72	70-135	i
o-Terphenyl		36 3	50 0	73	70-135	
Lab Batch #: 872983	Sample: 429584-001 / SMP	Batch	h: ¹ Matrix:	Solid	<u> </u>	
Units: mg/kg	Date Analyzed: 10/21/11 17:11		RROGATE RE		STUDY	
ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		47.9	50 1	96	70-135	l
Lab Batch #: 872977	Sample: 429584-011 / SMP	Batch				
Units: mg/kg	Date Analyzed: 10/22/11 05:06	SUI	RROGATE RE	COVERY	STUDY	
ВТЕУ	X by EPA 8021B Analytes	Amount Found [A]	True Amount B	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Ahaiyuts	0.0216	0 0300	72	80-120	**
1,4-Difluorobenzene		0.0216	0 0300	56	80-120 80-120	**
Lab Batch #: 872977	Sample: 429584-012 / SMP	Batch		I		
Units: mg/kg	Date Analyzed: 10/22/11 06:15		RROGATE RE		STUDY	
· · · · · · · · · · · · · · · · · · ·	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Ditluorobenzene		0.0231	0.0300	77	80-120	**
4-Bromofluorobenzene		0.0233	0 0300	78	80-120	**

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Project Name: Warren Battery

Vork Orders: 429584				Project ID: 30-015-28598 SMP Batch: 1 Matrix: Solid						
Lab Batch #: 872977	Sample: 429584-013 / SMP	Batch			CODE DO M					
Units: mg/kg	Date Analyzed: 10/22/11 07:23	106	RROGATE RE	COVERY 3	STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes		ı!	[D]	I	i				
1,4-Difluorobenzene		0 0237	0.0300	79	80-120	**				
4-Bromofluorobenzene		0.0819	0.0300	273	80-120	**				
Lab Batch #: 872977	Sample: 429584-015 / SMP	Batch				_				
Units: mg/kg	Date Analyzed: 10/22/11 08:09	SUI	RROGATE RE	COVERY	STUDY					
BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1,4-Difluorobenzene		0.0245	0.0300	82	80-120					
4-Bromofluorobenzene		0.0176	0 0300	59	80-120	**				
Lab Batch #: 872977	Sample: 429584-016 / SMP	Batch	h: ¹ Matrix:	Solid						
Units: mg/kg	Date Analyzed: 10/22/11 09:40		RROGATE RE		STUDY					
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes		<u>ا</u>	[D]						
1,4-Dıfluorobenzene		0 0246	0.0300	82	80-120	<u> </u>				
4-Bromofluorobenzene	L	0.0261	0.0300	87	80-120					
Lab Batch #: 873110	Sample: 429584-003 / SMP	Batch								
Units: mg/kg	Date Analyzed: 10/24/11 12:01	SUI	RROGATE RE	COVERY 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 0243	0.0300	81	80-120	ı				
4-Bromofluorobenzene		0 0249	0.0300	83	80-120	·				
Lab Batch #: 873110	Sample: 429584-005 / SMP	Batch	h: 1 Matrix:	Solid	<u> </u>					
Units: mg/kg	Date Analyzed: 10/24/11 13:09	SUI	RROGATE RE	COVERY 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 0257	0.0300	86	80-120	ī				
4-Bromofluorobenzene		0 0277	0.0300	92	80-120	i				

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Project Name: Warren Battery

Work Orders : 429584	-		-	D: 30-015-28	598	
Lab Batch #: 873110	Sample: 429584-009 / SMP		n: 1 Matrix: RROGATE RI		STUDV	
Units: mg/kg BTE2	Date Analyzed: 10/24/11 13:55 X by EPA 8021B	Amount Found [A]	True Amount B]	Recovery %R	Control Limits %R	Flags
	Analytes		[D]	[D]	701	
1,4-Ditluorobenzene		0 0287	0.0300	96	80-120	
4-Bromofluorobenzene		0 0238	0.0300	79	80-120	**
Lab Batch #: 873110	Sample: 429584-010 / SMP	Batch	h: 1 Matrix	Solid		
Units: mg/kg	Date Analyzed: 10/24/11 14:41	SU	RROGATE RI	ECOVERY	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene	Analytes	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene		0.0296	0.0300	82	80-120	
Lab Batch #: 872885	Sample: 613005-1-BLK / B	LK Batch	h: 1 Matrix	Solid	1	
Units: mg/kg	Date Analyzed: 10/19/11 19:30		RROGATE RI		STUDY	
ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
I-Chlorooctane		107	100	107	70-135	
o-Terphenyl		57 0	50.0	114	70-135	
Lab Batch #: 872871	Sample: 612998-1-BLK / B					
Units: mg/kg	Date Analyzed: 10/20/11 22:21	SU	RROGATE RI	ECOVERY	STUDY	
BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0261	0 0300	87	80-120	
4-Bromofluorobenzene		0.0262	0 0300	87	80-120	
Lab Batch #: 872983	Sample: 613072-1-BLK / B					
Units: mg/kg	Date Analyzed: 10/21/11 15:07	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	sy SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
l-Chlorooctane		102	100	102	70-135	
o-Terphenyl		50 8	50.0	102	70-135	

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Project Name: Warren Battery

Vork Orders : 429584	, Sample: 613067-1-BLK/B	IV Batal		D: 30-015-28	598	
Lab Batch #: 872977 Units: mg/kg	Date Analyzed: 10/21/11 23:01		RROGATE RE		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
	Analytes	0.0016	0.0200		00.100	
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0246	0.0300	82 87	80-120 80-120	
					80-120	
Lab Batch #: 873110	Sample: 613151-1-BLK / B			-	CONTRACTOR	
Units: mg/kg	Date Analyzed: 10/24/11 11:36	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 0253	0.0300	84	80-120	
4-Bromofluorobenzene		0 0269	0 0300	90	80-120	
Lab Batch #: 872885	Sample: 613005-1-BKS / B	KS Batc	h: 1 Matrix	Solid	1	
Units: mg/kg	Date Analyzed: 10/19/11 18.21		RROGATE RI		STUDY	
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		116	100	116	70-135	
o-Terphenyl		49.9	50 0	100	70-135	
Lab Batch #: 872871	Sample: 612998-1-BKS / B	KS Bate	h: l Matrix	:Solid		
Units: mg/kg	Date Analyzed: 10/20/11 20:50	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		0.0281	0 0300	94	80-120	
4-Bromofluorobenzene		0 0280	0.0300	93	80-120	
Lab Batch #: 872983	Sample: 613072-1-BKS / E	BKS Bate	h: ¹ Matrix	Solid		
Units: mg/kg	Date Analyzed: 10/21/11 14:04	SU	RROGATE R	ECOVERY	STUDY	
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chloresets	Analytes	111	100		70.125	
1-Chlorooctane o-Terphenyl		50 9	100 50 0	111	70-135	
0-reiphenyi		JU 7	1 500	102	10-133	

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Project Name: Warren Battery

Vork Orders : 429584			u u): 30-015-28:	598	
Lab Batch #: 872977	Sample: 613067-1-BKS / BF Date Analyzed: 10/21/11 21:30		h: ¹ Matrix: RROGATE RE		STUDY	
Units: mg/kg BTE2	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0272	0.0300	91	80-120	
4-Bromofluorobenzene		0.0277	0.0300	92	80-120	
Lab Batch #: 873110	Sample: 613151-1-BKS / BI	KS Batch	h: ¹ Matrix:	Solid		
Units: mg/kg	Date Analyzed: 10/24/11 10:04	SUI	RROGATE RE	COVERY	STUDY	
BTE	X 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		0.0303	0.0300	101	80-120	
Lab Batch #: 872885	Sample: 613005-1-BSD / BS	SD Batch	h: ¹ Matrix:	Solid	<u></u>	
Units: mg/kg	Date Analyzed: 10/19/11 18:52		RROGATE RE		STUDY	
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		I
1-Chlorooctane		115	100	115	70-135	
o-Terphenyl		51.4	50.0	103	70-135	
Lab Batch #: 872871	Sample: 612998-1-BSD / BS					
Units: mg/kg	Date Analyzed: 10/20/11 21:13	SUI	RROGATE RE	COVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
L 4 Defluershonzono	Analytes	0.0286	0.0200	95	80-120	
1,4-Ditluorobenzene		0.0286	0.0300	95	80-120 80-120	
	C	ll			00-120	
Lab Batch #: 872983	Sample: 613072-1-BSD / B		h: 1 Matrix: RROGATE RE		STUDY	
Units: mg/kg	Date Analyzed: 10/21/11 14:35	l	,			
TPH E	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		112	100	112	70-135	
o-Terphenyl		48 2	50 0	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

All results are based on MDL and validated for QC purposes



Project Name: Warren Battery

Work Orders: 429584		D	v): 30-015-28	598			
Lab Batch #: 872977	Sample: 613067-1-BSD / BS				OTTINY			
Units: mg/kg	Date Analyzed: 10/21/11 21:53	501	RROGATE RE	COVERY		, <u> </u>		
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1,4-Difluorobenzene		0 0278	0.0300	93	80-120			
4-Bromotluorobenzene		0 0289	0.0300	96	80-120			
Lab Batch #: 873110	Sample: 613151-1-BSD / BS	D Batch	h: ¹ Matrix:	Solid				
Units: mg/kg	Date Analyzed: 10/24/11 10:27	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 0276	0 0300	92	80-120			
4-Bromofluorobenzene		0 0302	0.0300	101	80-120			
Lab Batch #: 872871	Sample: 429852-002 S / MS	Batcl	h: ¹ Matrix:	Soil	<u> </u>			
Units: mg/kg	Date Analyzed: 10/21/11 02:32		RROGATE RE		STUDY			
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1,4-Dıfluorobenzene		0 0278	0.0300	93	80-120	「		
4-Bromofluorobenzene		0 0281	0 0300	94	80-120			
Lab Batch #: 872885	Sample: 429591-001 S / MS	Batel	h: ¹ Matrix:	Solid				
Units: mg/kg	Date Analyzed: 10/21/11 09:50	SU	RROGATE RE	COVERY	STUDY			
ТРН Е	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		124	100	124	70-135			
o-Terphenyl		55.8	50.1	111	70-135			
Lab Batch #: 872977	Sample: 429746-001 S / MS	Batel	I	1				
Units: mg/kg	Date Analyzed: 10/22/11 03:12		RROGATE RE		STUDY			
	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0276	0.0300	92	80-120			
4-Bromofluorobenzene		0.0297	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 / BAll results are based on MDL and validated for QC purposes



Project Name: Warren Battery

Vork Orders: 429584	,	Project ID: 30-015-28598						
Lab Batch #: 872885	Sample: 429591-001 SD / M							
Units: mg/kg	Date Analyzed: 10/20/11 09:45	SU	RROGATE RE	COVERY S	STUDY			
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		113	99 7	113	70-135			
o- Ferphenyl	۰ <u>۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰٬۰</u>	48.1	49 9	96	70-135			
Lab Batch #: 872871	Sample: 429852-002 SD / N	ASD Bate	h: l Matrix:	Soil				
Units: mg/kg	Date Analyzed: 10/21/11 02:55	SU	RROGATE RE	ECOVERY S	STUDY			
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1,4-Dıfluorobenzene		0 0275	0.0300	92	80-120			
4-Bromofluorobenzene		0.0281	0 0300	94	80-120			
Lab Batch #: 872977	Sample: 429746-001 SD / N		-					
Units: mg/kg	Date Analyzed: 10/22/11 03:35	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 0275	0 0300	92	80-120			
4-Bromofluorobenzene		0.0283	0 0300	94	80-120			
Lab Batch #: 873110	Sample: 429584-003 D / M	D Bate	h: ¹ Matrix:	Solid				
Units: mg/kg	Date Analyzed: 10/24/11 12:24	SU	RROGATE RI	ECOVERY	STUDY			
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0245	0.0300	82	80-120			
4-Bromofluorobenzene		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.





Project Name: Warren Battery

Contraction of the second second

Work Order #: 429584							Pro	ject ID: 3	30-015-2859	98	
Analyst: ASA	Da	ate Prepar	ed: 10/20/201	1			Date A	nalyzed:]	10/20/2011		
Lab Batch ID: 872871 Sam	ple: 612998-1-BKS	Batel	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / F	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0 00100	0.100	0 1 1 1	111	0.125	0.128	102	14	70-130	35	
Toluene	<0.00200	0.100	0 1 1 4	114	0 125	0.129	103	12	70-130	35	
Ethylbenzene	<0.00100	0 100	0.118	118	0 125	0.135	108	13	71-129	35	
m_p-Xylenes	<0.00200	0.200	0 236	118	0.250	0 270	108	13	70-135	35	
o-Xylene	<0.00100	0 100	0.117	117	0.125	0.136	109	15	71-133	35	
Analyst: ASA	D	ate Prepar	ed: 10/21/201	11			Date A	nalyzed:	10/21/2011		
Lab Batch ID: 872977 Sam	ple: 613067-1-BKS	Batel	h#: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / P	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	νY	
BTEX by EPA 8021B		1									
·	; Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes Benzene	Sample Result	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R		Limits	Limits	Flag
Analytes	Sample Result [A]	Added [B]	Spike Result [C]	Spike %R [D]	Added [E]	Spike Duplicate Result [F]	Dup. %R [G]		Limits %R	Limits %RPD	Flag
Analytes Benzene	Sample Result [A] <0.00100	Added [B] 0 100	Spike Result [C] 0 101	Spike %R [D] 101	Added [E] 0 100	Spike Duplicate Result [F] 0.100	Dup. %R [G] 100	%	Limits %R 70-130	Limits %RPD 35	Flag
Analytes Benzene Toluene	Sample Result [A] <0.00100 <0 00200	Added [B] 0 100 0 100	Spike Result [C] 0 101 0 103	Spike %R [D] 101 103	Added [E] 0 100 0 100	Spike Duplicate Result [F] 0.100 0 101	Dup. %R [G] 100 101	% 1 2	Limits %R 70-130 70-130	Limits %RPD 35 35	Flag

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





Project Name: Warren Battery

Carries - 1977 Taxae - 1952

Work Order #: 429584	-	. 15	. 10/24/20						30-015-285	98	
Analyst: ASA Lab Batch ID: 873110 Sample: 613			•ed: 10/24/20 h #: 1	11			Date A	Matrix: S	10/24/2011 Solid		
Units: mg/kg			K/BLANK	SPIKE / P	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUE)Y	
BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes Benzene	<0.00100	0 100	0.0906	91	0 100	0 0919	92	1	70-130	35	
Toluene	<0 00200	0 100	0.0943	94	0 100	0 0949	95	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.101	101	0.100	0 101	101	0	71-129	35	
m_p-Xylenes	<0.00200	0.200	0 202	101	0 200	0.201	101	0	70-135	35	
o-Xylene	<0.00100	0.100	0.101	101	0 100	0.101	101	0	71-133	35	
Analyst: ASA Lab Batch ID: 872885 Sample: 6130		-	red: 10/19/20 h #: 1	11				nalyzed: 1 Matrix: S			
Units: mg/kg		BLAN	K /BLANK	SPIKE / F	BLANK S	PIKE DUPI	LICATE	RECOVI	RY STUD	γ	
TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	895	90	1000	891	89	0	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	870	87	1000	836	84	4	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





Project Name: Warren Battery

Work Order #: 429584 Analyst: ASA Lab Batch ID: 872983	Sample: 613072-1-BKS	Date Prepared: 10/20/2011 Project ID: 30-015-2 Date Analyzed: 10/21/201 Date Analyzed: 10/21/201 Del: 613072-1-BKS Batch #: 1 Matrix: Solid							10/21/2011	98		
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
TPH By SW801	Sample	unk e Result A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
C6-C10 Gasoline Range Hydroc	arbons <1	50	1000	757	76	1000	763	76	1	70-135	35	
C10-C28 Diesel Range Hydroca	rbons <1	50	1000	827	83	1000	781	78	6	70-135	35	

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



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Project Name: Warren Battery



Work Order #: 429584						Project II): 30-015	-28598			
Lab Batch ID: 872871 Date Analyzed: 10/21/2011	QC- Sample ID: Date Prepared				tch #: alyst:	l Matrix ASA	r: Soil				
Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added B	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00115	0115	0 0843	73	0 1 1 4	0.0812	71	4	70-130	35	
Toluene	<0 00229	0 115	0.0826	72	0.114	0 0775	68	6	70-130	35	x
Ethylbenzene	<0.00115	0 115	0.0826	72	0 1 1 4	0 0760	67	8	71-129	35	x
m_p-Xylenes	<0.00229	0 229	0.160	70	0.228	0 146	64	9	70-135	35	X
o-Xylene	<0.00115	0.115	0.0762	66	0 1 1 4	0.0686	60	10	71-133	35	x
Lab Batch ID: 872977	QC- Sample ID:	429746	-001 S	Ba	tch #:	1 Matrix	c: Solid				
Date Analyzed: 10/22/2011	Date Prepared			An	alyst:	ASA					
Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		•
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00103	0.103	0 0810	79	0.103	0.0822	80	1	70-130	35	
Toluene	<0 00207	0.103	0.0825	80	0.103	0.0830	81	1	70-130	35	
Ethylbenzene	<0 00103	0,103	0 0858	83	0.103	0 0855	83	0	71-129	35	
m_p-Xylenes	<0.00207	0 207	0.169	82	0 205	0.168	82	1	70-135	35	
o-Xylene	<0.00103	0 103	0.0843	82	0.103	0 0833	81	1	71-133	35	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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



Project Name: Warren Battery



Work Order #: 429584	Project ID: 30-015-28598										
Lab Batch ID: 872885 Date Analyzed: 10/21/2011	QC- Sample ID: Date Prepared:				tch #: alyst:		k: Solid				
Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVER							OVERY	STUDY			
TPH By SW8015B Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C10 Gasoline Range Hydrocarbons	<16 3	1090	1050	96	1080	995	92	5	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<163	1090	1060	97	1080	955	88	10	70-135	35	j

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}[(C-F)/(C+F)]$ 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





Project Name: Warren Battery

Work Order #: 429584						
Lab Batch #: 873110				Project I	D: 30-015-2	:8598
Date Analyzed: 10/24/2011 12:24	Date Prepar	ed: 10/24/2011	Ana	lyst:ASA		
QC- Sample ID: 429584-003 D	Batch	1 #: 1	Ma	trix: Solid		
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		<0.0254	< 0.0254	0	35	U
Toluene		<0.0508	<0.0508	0	35	U
Ethylbenzene		<0 0254	<0.0254	0	35	U
m_p-Xylenes		0.139	0 172	21	35	
o-Xylene		0.323	0.376	15	35	
QC- Sample ID: 429584-011 D Reporting Units: %	Batch		Mai / SAMPLE	trix: Solid DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		(*-) (*-)	[B]			
Percent Moisture		5.72	5.96	4	20	
Lab Batch #: 872889						
Date Analyzed: 10/17/2011 14:40	Date Prepar	ed: 10/17/2011	Ana	lyst:BRB		
QC- Sample ID: 429596-001 D	Batch			trix: Solid		
Reporting Units: %		SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte						<u>-</u>
Percent Moisture		4 74	7 06	39	20	F

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

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XENCO-Envi	ironmental	Lat	0 0	fTexas	5					Wes sa, T	st I-2	20 Ea	ast	CU	570	DY R	EC	ORL	D AN	ND A	PI	hone	SIS F 5: 432 432	2-563	3-18	00			
Project Manager:	Amber Cannon														_	Pro	ojeci	Nan	ne:	Wa	rre	n B	atte	<u>əry</u>					
Company Name	Yates Petroleum Corporat	tion													_		Pr	ojeci	t #: _	30-0)15-	285	98						
Company Address	105 South 4th Street				Project Loc: Eddy County																								
City/State/Zip:	Artesia, NM 88210														-				PO #: 1032020										
															-	_	_		_			<u> </u>						 1	
Telephone No:	575-748-4111	7			Fax No		57		8-45						-	Repor		mat:	: L	<u> </u>	stand	lard			TRR	Р		NPC)ES
Sampler Signature:	(Imber)	W	$\Lambda\Lambda$	M	e-mail	•		<u>a</u>	can	nor	<u>1@</u>	vate	esp	etro	leur	<u>n.cc</u>	<u>m</u>					Analy	yze Fo	or:					
(lab use only)	linarda																			TCL TOT/	P		Ť		Τ	T	T	П	ş
ORDER #: 429584	1/929501							Γ	Pres	ervatic	on&≢	ofC	ontain	ers	M	atrix	83	Π		<u> </u>	-+-	<u>в</u>	+				}		8, 72 h
AB# (ab use only)	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	^c ield Fittered	fotal #. of Containers	lae	HNO3	HCI	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	Other (Specify)	DW=Drinking Water SL=Sludge	GW ≈ Groundwater S≃Soi/Solid NP≃Non-Potable Specrty Other	TPH 418 1 8015M 80	TPH TX 1005 TX 1006	Ň	Anions (Cl, SO4, Alkalinity)		As Ag ballod ur Pb Hg	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
01	N #1	4'	4'	10/13/2011	2·20 PM		1	+	<u> </u>		-†	1	-	\uparrow	t—	s S	x	-	Ť	Ť	1	+-	Ť	x	+			H	~
62	N #2	4'	4'	10/13/2011	2:30 PM	-	1		 			1	1	\uparrow	1	<u>-</u>	x				┢	1-	$\uparrow \uparrow$	x	+		_		-
2	N #3	4'	4'	10/13/2011	2.40 PM		1	x								s	x							х		X			_
04	N #4	4'	4'	10/13/2011	2.50 PM		1	X							l	s	x						\square	x	\perp	x			
05	S #1	4'	4'	10/13/2011	3:00 PM		1	X	<u> </u>				\downarrow	\downarrow		<u>s</u>	x		_	_				x	\downarrow	×	1		_
06	S #2	4'	4'	10/13/2011	<u>3:10 PM</u>		1	X	┝	$\left \right $		_	-			s	X	-	_	_	+	1-	┼─┤	x	_	_ <u> </u> ×			
07	S #3	4'	4'	10/13/2011	3.20 PM	-	1		 	$\left - \right $	-+	4	4		t	<u>s</u>	X	_					\downarrow	x	4	_ ×		⊢∔	
08	S #4	4'	4'	10/13/2011	3:30 PM		1	X		┝╌┤		╇	+	+-		<u>s</u>	X			+	+		+	×	╇	_ <u> </u> x			_
10	B #1	4'	4'	10/13/2011	3.40 PM	\vdash	1	<u> </u>	1	$\left\{ -\right\}$	-+	_	┿	+		S	<u>X</u>	-	_				$\left\{ - \right\}$	X	+	<u> </u>	+-+		
	B #2 B #3	4'	4' 4'	10/13/2011	3:50 PM 4 00 PM	+	1		-	+	+	-	╀	+		<u>s</u>	X X	\rightarrow	+	-+-	┿	+-	┼╌┤	X	+	<u>x</u>	1 1	-	-
12	B #4	4	4	10/13/2011 10/13/2011	4:10 PM	\square		Â			+		╋	+	r	s s	Ŷ	-+	+		+-	+	╀┦	× x	-	<u>x</u>	1 1	-+	-
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	Project Manager:	Amber Cannon															Proj	ect	Nam	e: <u>\</u>	Var	ren	Ва	atte	ry					
	Company Name	Yates Petroleum Corporat	ion															Pro	ject	#: <u>3</u>	0-01	5-2	8598	8						_
	Company Address	105 South 4th Street						-									Pr	ojec	t Lo	c: E	ddy (Coun	ty							
	City/State/Zip.	Artesia, NM 88210																	РО	# : <u>1</u>	0320	20								
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B		B #0	4'	4'	10/13/2011	4:20 PM	-#	<u> </u>	x							S	-	x					Í		x		x		Ť	
14	Stoc	ck Pile #1	1'	1'	10/13/2011	4.30 PM		1	x							S	_	x						_	x		x		Ι	
5	Stoc	ck Pile #2	1'	1'	10/13/2011	4:40 PM	$ \downarrow$	1	x							S		x		-		ļ			x		x		\bot	
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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	Yates Fr	strokum
Date/Time:	10-14.	11 13:54
Lab ID # :	429584/4	129589
Initials:		INE

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?	K Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	(NO)		
7. Chain of custody signed when relinquished / received?	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?	Yes	No		
11. Samples in proper container / bottle?	(Yes	No		
12. Samples properly preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	<u>Ç Ÿes</u>	No		
15. All samples received within sufficient hold time?	(Yes	No		
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	o.	Cooler 5 No.	
ibs 7.0 °C ibs °C ibs	°C lbs	°(lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:
Regarding:		
Corrective Action Taken:		
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فالإيرون منافع منافع منافع والمنافع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع		

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

Analytical Report 429589

for Yates Petroleum Corporation

Project Manager: Amber Cannon

Warren Battery

30-015-28598

25-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

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

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



25-OCT-11



Project Manager: **Amber Cannon Yates Petroleum Corporation** 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: **429589 Warren Battery** Project Address: Eddy County

Amber Cannon:

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 429589. 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. 429589 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 429589

Yates Petroleum Corporation, Artesia, NM

Warren Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
N #1	S	10-13-11 14:20	4 - 4 ft	429589-001
N #2	S	10-13-11 14:30	4 - 4 ft	429589-002
N #3	S	10-13-11 14:40	4 - 4 ft	429589-003
N #4	S	10-13-11 14:50	4 - 4 ft	429589-004
S #1	S	10-13-11 15:00	4 - 4 ft	429589-005
S #2	S	10-13-11 15:10	4 - 4 ft	429589-006
S #3	S	10-13-11 15:20	4 - 4 ft	429589-007
S #4	S	10-13-11 15:30	4 - 4 ft	429589-008
B #1	S	10-13-11 15:40	4 - 4 ft	429589-009
B #2	S	10-13-11 15:50	4 - 4 ft	429589-010
B #3	S	10-13-11 16:00	4 - 4 ft	429589-011
B #4	S	10-13-11 16:10	4 - 4 ft	429589-012
B #0	S	10-13-11 16:20	4 - 4 ft	429589-013
Stock Pile #1	S	10-13-11 16:30	1 - 1 ft	429589-014
Stock Pile #2	S	10-13-11 16:40	1 - 1 ft	429589-015
Stock Pile #3	S	10-13-11 16:50	1 - 1 ft	429589-016



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Warren Battery



 Project ID:
 30-015-28598

 Work Order Number:
 429589

Report Date: 25-OCT-11 Date Received: 10/14/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-872889 Percent Moisture RPD recovered outside QC limits between the sample and sample duplicate.

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Certificate of Analysis Summary 429589

Yates Petroleum Corporation, Artesia, NM



Project Name: Warren Battery

Project Id: 30-015-28598 Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 25-OCT-11 Project Manager: Brent Barron II

								Project Ma	nager:	Brent Barron	11		
	Lab Id:	429589-	001	429589-0	002	429589-0	003	429589-0	04	429589-0	005	429589-0	006
Anghosia Daga satad	Field Id:	N #1		N #2		N #3		N #4		S #1		S #2	
Analysis Requested	Depth:	4-4 ft		4-4 ft	1	4-4 ft		4-4 ft		4-4 ft		4-4 ft	
	Field Id: Depth: Matrix: Sampled: Oc Extracted: Analyzed: Oc Units/RL: m Extracted:	SOLII	o	SOLID)	SOLID	>	SOLIE)	SOLI	>	SOLIE)
	Sampled:	Oct-13-11	14.20	Oct-13-11 1	14.30	Oct-13-11 1	14.40	Oct-13-11	4.50	Oct-13-11	15.00	Oct-13-11	15 10
Anions by E300	Extracted:												
	Analyzed:	Oct-17-11	18.01	Oct-17-11 1	18.01	Oct-17-11 1	18.01	Oct-17-11	18.01	Oct-17-11	18.01	Oct-17-11	18 01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		25.1	8 57	19.3	8 59	221	8 60	160	8 58	10 8	8.64	65 0	8 53
Percent Moisture	Extracted:					*							
	Analyzed:	Oct-17-11	14.40	Oct-17-11 1	14.40	Oct-17-11 1	14.40	Oct-17-11	4.40	Oct-17-11	14 40	Oct-17-11	14.40
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		1.97	1.00	2 18	1.00	2.28	1.00	2 10	1.00	2 81	1 00	1.54	1 00

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

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Brent Barron II Odessa Laboratory Manager

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Project Id: 30-015-28598

Project Location: Eddy County

Contact: Amber Cannon

Certificate of Analysis Summary 429589

Yates Petroleum Corporation, Artesia, NM



Project Name: Warren Battery

Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 25-OCT-11

								Project Ma	nager:	Brent Barron	II		
	Lab Id:	429589-0)07	429589-0	08	429589-0	09	429589-0	010	429589-0	11	429589-0)12
Analysis Requested	Field Id:	S #3		S #4		B #1		B #2		B #3		B #4	
Analysis Keyuesieu	Depth:	4-4 ft		4-4 ft		4-4 ft		4-4 ft		4-4 ft		4-4 ft	
	Matrix:	SOLI	>	SOLIE	> (SOLID		SOLIE)	SOLIE)	SOLIE)
	Sampled:	Oct-13-11	Oct-13-11 15.20		15.30	Oct-13-11 1	5:40	Oct-13-11	15 50	Oct-13-11	6.00	Oct-13-11	16 10
Anions by E300	Extracted:												
	Analyzed:	Oct-22-11	02.15	Oct-22-11 (02.15	Oct-22-11 (02.15	Oct-22-11 (02.15	Oct-22-11 (02.15	Oct-22-11 (02.15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL.	mg/kg	RL
Chloride		313	8 80	264	8.76	24 9	8 50	40 2	8 54	274	8.91	108	8 72
Percent Moisture	Extracted:												
	Analyzed:	Oct-17-11	14.40	Oct-17-11	4.40	Oct-17-11 1	4.40	Oct-17-11	14.50	Oct-17-11	4.52	Oct-17-11	14.52
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL.	%	RL
Percent Moisture		4.58	1.00	4.16	1 00	1.23	1 00	1.69	1 00	5.72	1 00	3.65	1 00

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Brent Barron II Odessa Laboratory Manager

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Labora	torics

Certificate of Analysis Summary 429589

Yates Petroleum Corporation, Artesia, NM

Project Name: Warren Battery



Project Id: 30-015-28598 Contact: Amber Cannon Project Location: Eddy County

Date Received in Lab: Fri Oct-14-11 01:54 pm

Report Date: 25-OCT-11

roject Bocation: Bady County								Project Ma	nager:	Brent Barron II	
	Lab Id:	429589-0	013	429589-0	14	429589-0	15	429589-0	016		
Analysis Requested	Field Id:	B #0		Stock Pile	#1	Stock Pile	#2	Stock Pile	e #3		
Analysis Kequestea	Depth:	4-4 ft		1-1 ft		1-1 ft		1-1 ft			
	Matrix:	SOLII)	SOLID	•	SOLID	,	SOLIE)		
	Sampled:	Oct-13-11	16:20	Oct-13-11 1	6 30	Oct-13-11 1	6.40	Oct-13-11	16 50		
Anions by E300	Extracted:										
	Analyzed:	Oct-22-11	02.15	Oct-21-11 1	4.39	Oct-21-11 1	4.39	Oct-21-11	14.39		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		99.6	8.58	193	8 64	36 7	8.51	58.8	8 54		
Percent Moisture	Extracted:										
	Analyzed:	Oct-17-11	14.52	Oct-17-11 1	4.52	Oct-17-11 1	4 52	Oct-17-11	14.52		
	Units/RL:	%	RL	%	RL	%	RL	%	RL.		
Percent Moisture		2.05	1.00	2.77	1 00	1.26	1 00	1.59	1.00		

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Brent Barron II Odessa Laboratory Manager



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation
DL Method Detection Limit		

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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BS / BSD Recoveries

Project Name: Warren Battery

Work Order #: 429589							Pro	ject ID: 3	0-015-285	98			
Analyst: BRB	Da	ite Prepar	ed: 10/17/201	11			Date A	nalyzed: 1	0/17/2011				
Lab Batch ID: 872546 Samp	ole: 872546-1-BKS	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Blank Sample Result [A] Spike Added Added Blank Spike Result [B] Blank Spike [C] Blank Spike [D] Blank Spike Result [B] Blank Spike [E] Blank Result Result [F] Blank Spike [G] Blank Spike Spike Control [Limits] Control Limits %RPD Control Limits %RPD Control Limits %RPD <0.840 20.0 21.7 109 20.0 22.2 111 2 75-125 20 Date Prepared: 10/22/2011 Date Analyzed: 10/22/2011 Blank Sample Result [A] Spike Added Blank Spike Spike Result [B] Spike Added Blank Spike %R Spike Added Blank Spike Spike Ne Blank Added Spike %R Blank Spike Added Blank Spike Spike Blank Spike Result [F] Blank Spike [G] Blank Spike Ne Spike Added Blank Spike Spike Blank Spike Result [F] Blank Spike Result [F] Blank Spike Blank Spike Blank Spike Blank Spike Blank Spike Blank Added Spike Spike Blank Spike Blank Spike </th											
Units: mg/kg		BLAN	K /BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	θ¥			
Anions by E300 Analytes	Sample Result	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R		Limits	Limits	Flag		
Chloride	<0.840	20.0	21.7	109	20 0	22.2	111	2	75-125	20	-		
Analyst: BRB	Da	ate Prepar	ed: 10/22/201	1			Date A	nalyzed: 1	0/22/2011				
Lab Batch ID: 872931 Samp	le: 872931-1-BKS	Batcl	n #: 1					Matrix: S	Solid				
Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	PIKE DUPI	LICATE	RECOVE	ERY STUD	Y			
Anions by E300 Analytes	Sample Result	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R		Limits	Limits	Flag		
Chloride	<0.840	20.0	21.5	108	20.0	21.6	108	0	75-125	20			
Analyst: BRB	D٤	ate Prepar	ed: 10/21/201	1		<u>-</u>	Date A	nalyzed: 1	0/21/2011	·	· · · · · · · · · · · · · · · · · · ·		
Lab Batch ID: 872935 Samp	le: 872935-1-BKS	Batch	n#: 1					Matrix: S	Solıd				
Units: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	PIKE DUPI	LICATE	RECOVE	ERY STUD	γ			
Anions by E300		Added	Spike Result	1	Added		•	RPD %		1	Flag		
Analytes Chloride		[B]	[C]	[U]	[E]	rcesur [r]	[0]						
			21.5	108	20.0		107			20			

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





Project Name: Warren Battery

Work Order #: 429589								
Lab Batch #: 872546				Pre	oject ID:	30-015-285	98	
Date Analyzed: 10/17/2011	Date P	repared: 10/1	7/2011	A	Analyst: B	RB		
QC- Sample ID: 429589-006 S		Batch #: 1		I	Matrix: So	olid		
Reporting Units: mg/kg		MATF	RIX / MA	TRIX SPIKE	RECOV	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		65 0	203	283	107	75-125		
Lab Batch #: 872546								
Date Analyzed: 10/17/2011	Date P	repared: 10/1	7/2011	A	nalyst: B	RB		
QC- Sample ID: 429638-001 S		Batch #: 1		1	Matrix: So	oil		
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECOV	VERY STU	DY	
ab Batch #: 872546 e Analyzed: 10/17/2011 I Sample ID: 429589-006 S porting Units: mg/kg Inorganic Anions by EPA 300 Analytes Analytes Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes			[0]			RB blid VERY STUDY Control Limits %R 75-125 RB blid VERY STUDY Control Limits %R 75-125 RB blid VERY STUDY Control Limits %R Fla %R %R Fla %R Fla %R %R %R %R %R %R %R %R %R %R		
Chloride		208	106	322	108	httrix: Solid RECOVERY STUDY %R Limits 107 75-125 Alyst: BRB htrix: Soil RECOVERY STUDY %R Control %R Limits 107 75-125 Alyst: BRB htrix: Soil RECOVERY STUDY %R Control 108 75-125 Alyst: BRB htrix: Solid RECOVERY STUDY %R Control µD %R ID9 75-125		
Lab Batch #: 872931								
Date Analyzed: 10/22/2011	Date P	repared: 10/2	2/2011	A	Analyst: B	RB		
QC- Sample ID: 429589-013 S		Batch #: 1						
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R	alyst: BRB atrix: Solid RECOVERY STU %R Limits D] %R 107 75-125 alyst: BRB atrix: Solid RECOVERY STU %R Control Limits %R 108 75-125 alyst: BRB atrix: Solid RECOVERY STU %R Control Limits %R 109 75-125 alyst: BRB atrix: Solid RECOVERY STU %R Control Limits %R 109 75-125 alyst: BRB atrix: Solid RECOVERY STU %R Control Limits %R 109 75-125 alyst: BRB	Flag	
Chloride		99.6	204	321	109	75-125	Y STUDY ntrol mits %R 5-125 Y STUDY ntrol mits %R Flag	
Lab Batch #: 872931								
Date Analyzed: 10/22/2011	Date P	repared: 10/2	2/2011	A	Analyst: B	RB		
QC- Sample ID: 429610-003 S		Batch #: 1		1	Matrix: S	olid		
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
- ·		Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R	Limits	Flag	
Analytes		[A]	[B]					
Chloride .		3340	2280	5730	105			

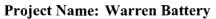
Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

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Form 3 - MS Recoveries





Work Order #: 429589

Lab Batch #: 872935 Date Analyzed: 10/21/2011

Date Prepared: 10/21/2011

Project ID: 30-015-28598

Analyst: BRB

QC- Sample ID: 429746-001 S	Batch #: 1		T	Matrix: S	olid						
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STU										
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Analytes	[A]	[B]									
Chloride	5.96	103	111	102	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

BRL - Below Reporting Limit

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Sample Duplicate Recovery



Project Name: Warren Battery

Work Order #: 429589					
Lab Batch #: 872546 Date Analyzed: 10/17/2011 18.01 Date Prepare	ed•10/17/2011	l Ans	=	D: 30-015-2	8598
-			v		
Reporting Units: mg/kg				ATE REC	OVERY
				·	
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	208	208	0	20	_
Lab Batch #: 872931			<u>.</u>		<u> </u>
	ed: 10/22/2011	l Ane	alyst: BRB		
			-		
Reporting Units: mg/kg	SAMPLE /			ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	3340	3320	1	20	[
Lab Batch #: 872935		· · · · · · · · ·		•	
	ed: 10/21/2011	l Ana	ılyst:BRB		
QC- Sample ID: 429746-001 D Batch	1 #: 1	Ma	trix: Solid		
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	5.96	6.01	1	20	
	. ,	L			
Lah Ratch #. 872551					
Lab Batch #: 872551 Date Analyzed: 10/17/2011 14:52 Date Prepar	Project ID: $30-015-28598$ 10/17/2011 18.01Date Prepared: $10/17/2011$ Analyst: BRB429638-001 DBatch #: 1Matrix: Soilmg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYAnions by E300Parent Sample Result [A]RPDControl Limits %RPDAnalyte208020208208020872931022/2011 02:15Date Prepared: $10/22/2011$ Analyst: BRB429610-003 DBatch #: 1Matrix: Solidmg/kgSAMPLE / SAMPLE DUPLICATE RECOVERYAnions by E300Parent Sample Result [A]RPDControl Limits %RPDAnalyte334033201208729353340332012010/21/2011 14:39Date Prepared: $10/21/2011$ Analyst: BRB Matrix: Solid872935SAMPLE / SAMPLE / SAMPLE DUPLICATE RECOVERYAnions by E300Parent Sample Result [A]RPDControl Limits %RPD9/2011 14:39Date Prepared: $10/21/2011$ Analyst: BRB Matrix: Solid872935SAMPLE / SAMPLE / SAMPLE DUPLICATE RECOVERYAnions by E300Parent Sample Result [A]RPDControl Limits %RPD9/2011 14:52Date Prepared: $10/17/2011$ Analyst: WRU Analyst: WRU87255110/17/2011 14:52Date Prepared: $10/17/2011$ Analyst: WRU Analyst: WRU87255110/17/2011 14:52Date Prepared: $10/17/2011$ Analyst: WRU Analyst: WRU87255110/17/2011 14:52Date Prepa				
Date Analyzed: 10/17/2011 14:52 Date Prepar			•		
Date Analyzed: 10/17/2011 14:52 Date Prepar	n#: 1	Ma	trix: Solid	ATE REC	OVERY
Date Analyzed:10/17/2011 14:52Date PreparQC- Sample ID:429584-011 DBatchReporting Units:%	n #: 1 SAMPLE / Parent Sample Result	Ma / SAMPLE Sample Duplicate Result	trix: Solid	Control Limits	
	5.96	6.01	1	20	E RECOVER Control Limits %RPD Flag 20 E RECOVER Control Limits Flag 20 E RECOVER Control Limits Flag 20 E RECOVER Control Limits Flag 20 E RECOVER
Date Analyzed:10/17/2011 14:52Date PreparQC- Sample ID:429584-011 DBatchReporting Units:%	n #: 1 SAMPLE / Parent Sample Result	Ma / SAMPLE Sample Duplicate Result	trix: Solid	Control Limits	

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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Sample Duplicate Recovery



Project Name: Warren Battery

Work Order #: 429589

Lab Batch #: 872889			Project I	D: 30-015-2	8598
Date Analyzed: 10/17/2011 14:40	Date Prepared: 10/17/201	l Ana	lyst:BRB		
QC- Sample ID: 429596-001 D	Batch #: 1	Mat	rix: Solıd		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	4.74	7.06	39	20	F

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

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	Project Manager:	Amber Cannon				·										Р	rojec	t Na	me:	Wa	rre	n B	Batte	əry				
	Company Name	Yates Petroleum Corpora	tion														P	rojec	:t #: _	30-0	015-	285	98					
	Company Address:	105 South 4th Street															Proj	ect L	.oc:	Eddv		untv						
	City/State/Zip:	Artesia, NM 88210						_,											- D #:							·		
	Telephone No:					Fax No:				4505					_	Repo			-	×					TRRF	·		-
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AB # (lab use oniy)	FIFI		Beginning Depth	Ending	Date	Time	Field Filtered	fotal # of Containers	AND A	Ĩ	- Sol	NaOH	Na ₂ S ₂ O ₃	None	Other (Spe DW=Drinking)	GW = Groundwater NP=Non-Potable	н Та Т	Hd1	Cations (Ca, Mg.	Anions (Cl, SO4, Alkatinuty)	SAR / E	Volatiles	Semivolatiles	BTEX 8021B/5030 ar	N O R M	Chlorides		
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XENCO-Environmental La	ab of	Texas
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	Project Manager:	Amber Cannon							_	Pr	ojec	t Na	me:	W	arr	en	Bat	ter	<u>y</u>												
	Company Name	Yates Petroleum Corporation P							Pr	Project #: 30-015-28598																					
	Company Address	105 South 4th Street	105 South 4th Street Project							ect L	ct Loc: Eddy County																				
	City/State/Zip.	Artesia, NM 88210 PO #: 1032020																													
	Telephone No [.]	575-748-4111	`			Fax No:		575	5-74	8-45	85_					_	Repor	t Fo	rma	t:	×	Star	ndar	d	Γ	ייב	RRP	,		NPDE	ES
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LAB # (lab use only)		LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	lce	HNO ₃	HCI	H₂SO₄	NaOH	Na ₂ S ₂ O ₃	None Other (Specify)		GW ⊭ Groundwater S=Soil/Solid NP=Non-Potable Specify Other		TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	s Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles BTEX 80218/5030 or BTEX 8260		NORM	Chlorides		RUSH TAT IPre-Schedulel 24, 48	Standard TAT
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Special I	nstructions:	TPH: 8015B, BT			& Chlorides.	Please show	/BT	ΈX	res	sults	as	mg/	kg.	Tha		-				Lab San VOC	orat iple S F	ory Coni ree c	Con tàine of He	nmen ers Ini eadsp	ts: tact? bace) - i je ?		1			(* 1. 1. 1.
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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:	Yates F	etvokum
Date/Time:	10-14.	11 13:54
Lab ID # :	429584/4	129589
Initials:		UE

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?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	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?	Yes	No -		
11. Samples in proper container / bottle?	(Yes	No		
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	<u>(Ŷeŝ</u>	No		
15. All samples received within sufficient hold time?	(Yes	No		
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No.	
lbs 2.0 °C lbs °C lbs	°C Ibs	°(lbs	°C

Nonconformance Documentation

Contact	Contacted by:	Date/Time:	
Regarding:			
Corrective Action Taken:			
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Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis . .