

GW-020

**Annual Report for Conoco
Playa Lake**

**DATE:
November 10, 2009**



RECEIVED

2009 NOV 12 PM 2 38

Fran King Brown
Environmental Health & Safety Manager

Phone: 970-764-6655
Fax: 970-375-2216
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fbrown@akaenergy.com

CERTIFIED MAIL:

No. 7003 3110 0005 1680 9471
RETURN RECEIPT REQUESTED

November ¹⁰/₈, 2009

State of New Mexico
Attn: Mr. Wayne Price
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: **Annual Discharge Permit for Conoco Playa Lake
Discharge Plan #GW-020
Frontier Field Services, LLC
Maljamar Gas Plant, Lea County**

Dear Mr. Price:

Attached is the water analysis and monthly discharged water meter readings for the Frontier Field Services Maljamar Gas Plant disposal of "Reverse Osmosis" wastewater into ConocoPhillips' Playa Lake. OCD Discharge Permit #GW-020 requires metering of the discharged water to be recorded monthly and a laboratory analysis of a water sample from this stream on an annual basis.

Please Contact me at one of the numbers indicated above with any questions or comments.

Sincerely,

A handwritten signature in cursive script that reads "Fran Brown".

Fran King Brown

Attachments (2)

Analytical Report 350336

for

Frontier Field Services

Project Manager: Steve Maker

Maljamar Plant

05-NOV-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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

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

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

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

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

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

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



05-NOV-09

Project Manager: **Steve Maker**
Frontier Field Services
1001 Conoco Road

Maljamar, NM 88264

Reference: XENCO Report No: **350336**
Maljamar Plant
Project Address: Maljamar, NM

Steve Maker:

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 350336. 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. 350336 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 350336



Frontier Field Services, Maljamar, NM

Maljamar Plant

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Playa Lake Discharge	W	Oct-29-09 11:35		350336-001



CASE NARRATIVE

Client Name: *Frontier Field Services*

Project Name: *Maljamar Plant*

Project ID:

Work Order Number: 350336

Report Date: 05-NOV-09

Date Received: 10/29/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-780197 VOAs by SW-846 8260B

None

Batch: LBA-780354 TCLP Metals per ICP by SW846 6010B

None

Batch: LBA-780359 TCLP Mercury by SW 7470A

SW7470A

Batch 780359, Mercury recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 350336-001.

The Laboratory Control Sample for Mercury is within laboratory Control Limits



Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM

Project Name: Maljamar Plant



Project Id:
Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm
Report Date: 05-NOV-09
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	350336-001						
		Field Id:	Playa Lake Discharge						
		Depth:							
		Matrix:	WATER						
		Sampled:	Oct-29-09 11:35						
TCLP Mercury by SW 7470A		Extracted:	Nov-04-09 11:00						
		Analyzed:	Nov-05-09 11:44						
		Units/RL:	mg/L RL						
		Mercury	ND 0.0001						
TCLP Metals per ICP by SW846 6010B		Extracted:	Nov-03-09 10:00						
		Analyzed:	Nov-04-09 13:18						
		Units/RL:	mg/L RL						
		Antimony	ND 0.010						
		Arsenic	ND 0.010						
		Barium	0.128 0.010						
		Beryllium	ND 0.004						
		Cadmium	ND 0.005						
		Chromium	ND 0.005						
		Lead	ND 0.012						
		Nickel	ND 0.010						
		Selenium	ND 0.010						
		Silver	ND 0.004						

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 350336

Frontier Field Services, Maljamar, NM
Project Name: Maljamar Plant



Project Id:
Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm
Report Date: 05-NOV-09
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	350336-001			
	Field Id: Depth: Matrix: Sampled:	Playa Lake Discharge WATER Oct-29-09 11:35			
VOAs by SW-846 8260B SUB: T104704295-08-TX	Extracted:	Nov-03-09 10:10			
	Analyzed:	Nov-03-09 12:47			
	Units/RL:	mg/L RL			
Benzene		ND 0.005			
Bromobenzene		ND 0.005			
Bromochloromethane		ND 0.005			
Bromodichloromethane		ND 0.005			
Bromoform		ND 0.005			
Bromomethane		ND 0.005			
MTBE		ND 0.005			
n-Butylbenzene		ND 0.005			
Sec-Butylbenzene		ND 0.005			
tert-Butylbenzene		ND 0.005			
Carbon Tetrachloride		ND 0.005			
Chlorobenzene		ND 0.005			
Chloroethane		ND 0.010			
Chloroform		ND 0.005			
Chloromethane		ND 0.010			
2-Chlorotoluene		ND 0.005			
4-Chlorotoluene		ND 0.005			
p-Cymene (p-Isopropyltoluene)		ND 0.005			
Dibromochloromethane		ND 0.005			
1,2-Dibromo-3-Chloropropane		ND 0.005			
1,2-Dibromoethane		ND 0.005			
Dibromomethane		ND 0.005			
1,2-Dichlorobenzene		ND 0.005			
1,3-Dichlorobenzene		ND 0.005			
1,4-Dichlorobenzene		ND 0.005			

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Odessa Laboratory Manager



Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM
Project Name: Maljamar Plant



Project Id:

Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm

Report Date: 05-NOV-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	350336-001	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	mg/L	RL
	Field Id:	Playa Lake Discharge								
VOAs by SW-846 8260B SUB: T104704295-08-TX				WATER	Oct-29-09 11:35	Nov-03-09 10:10	Nov-03-09 12:47			
Dichlorodifluoromethane									ND	0.005
1,1-Dichloroethane									ND	0.005
1,2-Dichloroethane									ND	0.005
1,1-Dichloroethene									ND	0.005
cis-1,2-Dichloroethene									ND	0.005
trans-1,2-dichloroethene									ND	0.005
1,2-Dichloropropane									ND	0.005
1,3-Dichloropropane									ND	0.005
2,2-Dichloropropane									ND	0.005
1,1-Dichloropropene									ND	0.005
cis-1,3-Dichloropropene									ND	0.005
trans-1,3-dichloropropene									ND	0.005
Ethylbenzene									ND	0.005
Hexachlorobutadiene									ND	0.005
isopropylbenzene									ND	0.005
Methylene Chloride									ND	0.005
Naphthalene									ND	0.010
n-Propylbenzene									ND	0.005
Styrene									ND	0.005
1,1,1,2-Tetrachloroethane									ND	0.005
1,1,2,2-Tetrachloroethane									ND	0.005
Tetrachloroethylene									ND	0.005
Toluene									ND	0.005
1,2,3-Trichlorobenzene									ND	0.005
1,2,4-Trichlorobenzene									ND	0.005

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Odessa Laboratory Manager



Certificate of Analysis Summary 350336

Frontier Field Services, Maljamar, NM
Project Name: Maljamar Plant



Project Id:
Contact: Steve Maker
Project Location: Maljamar, NM

Date Received in Lab: Thu Oct-29-09 04:30 pm
Report Date: 05-NOV-09
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	350336-001			
	Field Id:	Playa Lake Discharge			
	Depth:				
	Matrix:	WATER			
	Sampled:	Oct-29-09 11:35			
VOAs by SW-846 8260B SUB: T104704295-08-TX	Extracted:	Nov-03-09 10:10			
	Analyzed:	Nov-03-09 12:47			
	Units/RL:	mg/L RL			
1,1,1-Trichloroethane		ND 0.005			
1,1,2-Trichloroethane		ND 0.005			
Trichloroethene		ND 0.005			
Trichlorofluoromethane		ND 0.005			
1,2,3-Trichloropropane		ND 0.005			
1,2,4-Trimethylbenzene		ND 0.005			
1,3,5-Trimethylbenzene		ND 0.005			
o-Xylene		ND 0.005			
m,p-Xylenes		ND 0.010			
Vinyl Chloride		ND 0.002			

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Flagging Criteria



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

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



Form 2 - Surrogate Recoveries

Project Name: Maljamar Plant

Work Orders : 350336,

Lab Batch #: 780197

Sample: 542281-1-BKS / BKS

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/09 10:07

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0515	0.0500	103	74-124	
Dibromofluoromethane	0.0488	0.0500	98	75-131	
1,2-Dichloroethane-D4	0.0503	0.0500	101	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

Lab Batch #: 780197

Sample: 542281-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/09 10:54

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0455	0.0500	91	74-124	
Dibromofluoromethane	0.0475	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0474	0.0500	95	63-144	
Toluene-D8	0.0513	0.0500	103	80-117	

Lab Batch #: 780197

Sample: 350336-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/09 12:47

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0529	0.0500	106	74-124	
Dibromofluoromethane	0.0512	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0517	0.0500	103	63-144	
Toluene-D8	0.0510	0.0500	102	80-117	

Lab Batch #: 780197

Sample: 350360-004 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/09 14:09

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0511	0.0500	102	74-124	
Dibromofluoromethane	0.0482	0.0500	96	75-131	
1,2-Dichloroethane-D4	0.0513	0.0500	103	63-144	
Toluene-D8	0.0512	0.0500	102	80-117	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \cdot A / B$

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



Form 2 - Surrogate Recoveries

Project Name: Maljamar Plant

Work Orders : 350336,

Lab Batch #: 780197

Sample: 350360-004 SD / MSD

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/03/09 14:30

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0530	0.0500	106	74-124	
Dibromofluoromethane	0.0474	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0515	0.0500	103	63-144	
Toluene-D8	0.0489	0.0500	98	80-117	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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

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



Blank Spike Recovery



Project Name: Maljamar Plant

Work Order #: 350336

Project ID:

Lab Batch #: 780197

Sample: 542281-1-BKS

Matrix: Water

Date Analyzed: 11/03/2009

Date Prepared: 11/03/2009

Analyst: JEA

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Benzene	ND	0.050	0.051	102	66-142	
Bromobenzene	ND	0.050	0.046	92	60-130	
Bromochloromethane	ND	0.050	0.053	106	73-125	
Bromodichloromethane	ND	0.050	0.052	104	75-125	
Bromoform	ND	0.050	0.049	98	75-125	
Bromomethane	ND	0.050	0.052	104	70-130	
MTBE	ND	0.050	0.054	108	75-125	
n-Butylbenzene	ND	0.050	0.048	96	75-125	
Sec-Butylbenzene	ND	0.050	0.047	94	75-125	
tert-Butylbenzene	ND	0.050	0.047	94	75-125	
Carbon Tetrachloride	ND	0.050	0.046	92	62-125	
Chlorobenzene	ND	0.050	0.044	88	60-133	
Chloroethane	ND	0.050	0.052	104	70-130	
Chloroform	ND	0.050	0.054	108	74-125	
Chloromethane	ND	0.050	0.049	98	70-130	
2-Chlorotoluene	ND	0.050	0.045	90	73-125	
4-Chlorotoluene	ND	0.050	0.048	96	74-125	
p-Cymene (p-Isopropyltoluene)	ND	0.050	0.048	96	75-125	
Dibromochloromethane	ND	0.050	0.045	90	60-130	
1,2-Dibromo-3-Chloropropane	ND	0.050	0.055	110	59-125	
1,2-Dibromoethane	ND	0.050	0.050	100	73-125	
Dibromomethane	ND	0.050	0.055	110	69-127	
1,2-Dichlorobenzene	ND	0.050	0.046	92	75-125	
1,3-Dichlorobenzene	ND	0.050	0.046	92	75-125	
1,4-Dichlorobenzene	ND	0.050	0.046	92	75-125	
Dichlorodifluoromethane	ND	0.050	0.052	104	70-130	
1,1-Dichloroethane	ND	0.050	0.052	104	60-130	
1,2-Dichloroethane	ND	0.050	0.056	112	68-127	
1,1-Dichloroethene	ND	0.050	0.050	100	59-172	
cis-1,2-Dichloroethene	ND	0.050	0.054	108	60-130	
trans-1,2-dichloroethene	ND	0.050	0.052	104	60-130	
1,2-Dichloropropane	ND	0.050	0.055	110	74-125	
1,3-Dichloropropane	ND	0.050	0.054	108	75-125	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

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

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: Maljamar Plant

Work Order #: 350336

Project ID:

Lab Batch #: 780197

Sample: 542281-1-BKS

Matrix: Water

Date Analyzed: 11/03/2009

Date Prepared: 11/03/2009

Analyst: JEA

Reporting Units: mg/L

Batch #: 1

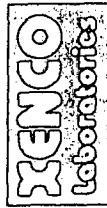
BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
2,2-Dichloropropane	ND	0.050	0.052	104	60-140	
1,1-Dichloropropene	ND	0.050	0.050	100	75-125	
cis-1,3-Dichloropropene	ND	0.050	0.051	102	60-140	
trans-1,3-dichloropropene	ND	0.050	0.050	100	66-125	
Ethylbenzene	ND	0.050	0.044	88	75-125	
Hexachlorobutadiene	ND	0.050	0.048	96	75-125	
isopropylbenzene	ND	0.050	0.045	90	75-125	
Methylene Chloride	ND	0.050	0.060	120	75-125	
Naphthalene	ND	0.050	0.049	98	65-135	
n-Propylbenzene	ND	0.050	0.045	90	75-125	
Styrene	ND	0.050	0.047	94	60-130	
1,1,1,2-Tetrachloroethane	ND	0.050	0.046	92	75-125	
1,1,2,2-Tetrachloroethane	ND	0.050	0.043	86	50-130	
Tetrachloroethylene	ND	0.050	0.044	88	60-130	
Toluene	ND	0.050	0.043	86	59-139	
1,2,3-Trichlorobenzene	ND	0.050	0.049	98	75-137	
1,2,4-Trichlorobenzene	ND	0.050	0.049	98	75-135	
1,1,1-Trichloroethane	ND	0.050	0.052	104	75-125	
1,1,2-Trichloroethane	ND	0.050	0.052	104	75-127	
Trichloroethene	ND	0.050	0.052	104	62-137	
Trichlorofluoromethane	ND	0.050	0.050	100	67-125	
1,2,3-Trichloropropane	ND	0.050	0.045	90	75-125	
1,2,4-Trimethylbenzene	ND	0.050	0.048	96	75-125	
1,3,5-Trimethylbenzene	ND	0.050	0.047	94	70-125	
o-Xylene	ND	0.050	0.046	92	75-125	
m,p-Xylenes	ND	0.100	0.092	92	75-125	
Vinyl Chloride	ND	0.050	0.049	98	75-125	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

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

BRL - Below Reporting Limit



BS / BSD Recoveries



Project Name: Maljamar Plant

Work Order #: 350336

Analyst: LATCOR

Lab Batch ID: 780359

Sample: 542392-1-BKS

Batch #: 1

Date Prepared: 11/04/2009

Project ID:

Date Analyzed: 11/05/2009

Matrix: Water

Units: mg/L

TCLP Mercury by SW 7470A

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Analytes	TCLP Mercury by SW 7470A	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
		[A]	[B]	[C]	[D]	[E]	[F]	[G]				
Mercury		ND	0.0010	0.0010	100	0.001	0.0009	90	11	75-125	20	

Analyst: LATCOR

Lab Batch ID: 780354

Sample: 542367-1-BKS

Date Prepared: 11/03/2009

Date Analyzed: 11/04/2009

Matrix: Water

Units: mg/L

TCLP Metals per ICP by SW846 6010B

Units: mg/L

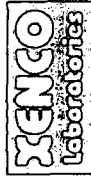
BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
Analytes	TCLP Metals per ICP by SW846 6010B											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Antimony	ND	1.20	1.12	93	1.2	1.08	90	4	75-125	25	
	Arsenic	ND	0.800	0.693	87	0.8	0.675	84	3	75-125	25	
	Barium	ND	0.150	0.151	101	0.15	0.148	99	2	75-125	25	
	Beryllium	ND	0.150	0.158	105	0.15	0.157	105	1	75-125	25	
	Cadmium	ND	0.150	0.167	111	0.15	0.161	107	4	75-125	25	
	Chromium	ND	0.150	0.149	99	0.15	0.144	96	3	75-125	25	
	Lead	ND	1.10	0.928	84	1.1	0.904	82	3	75-125	25	
	Nickel	ND	0.500	0.473	95	0.5	0.461	92	3	75-125	25	
	Selenium	ND	0.300	0.325	108	0.3	0.328	109	1	75-125	25	
	Silver	ND	0.050	0.051	102	0.05	0.049	98	4	75-125	25	

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

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

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

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Maljamar Plant



Work Order #: 350336

Lab Batch ID: 780359

Date Analyzed: 11/05/2009

Reporting Units: mg/L

Project ID:

QC- Sample ID: 350336-001 S

Batch #: 1

Matrix: Water

Date Prepared: 11/04/2009

Analyst: LATCOR

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Reporting Units: mg/L	TCLP Mercury by SW 7470A	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
			ND	0.0010	0.0007	70	0.0010	0.0007	70	0	75-125	20	X
	Mercury												

Lab Batch ID: 780354

Date Analyzed: 11/04/2009

Reporting Units: mg/L

QC- Sample ID: 350336-001 S

Batch #: 1

Matrix: Water

Date Prepared: 11/03/2009

Analyst: LATCOR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY													
Reporting Units: mg/L	TCLP Metals per ICP by SW846 6010B 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	
		Antimony	ND	1.20	1.06	88	1.20	1.06	88	0	75-125	25	
		Arsenic	ND	0.800	0.685	86	0.800	0.686	86	0	75-125	25	
		Barium	0.128	0.150	0.301	115	0.150	0.291	109	3	75-125	25	
		Beryllium	ND	0.150	0.153	102	0.150	0.150	100	2	75-125	25	
		Cadmium	ND	0.150	0.160	107	0.150	0.158	105	1	75-125	25	
		Chromium	ND	0.150	0.138	92	0.150	0.136	91	1	75-125	25	
		Lead	ND	1.10	0.874	79	1.10	0.862	78	1	75-125	25	
		Nickel	ND	0.500	0.425	85	0.500	0.421	84	1	75-125	25	
		Selenium	ND	0.300	0.295	98	0.300	0.290	97	2	75-125	25	
		Silver	ND	0.050	0.048	96	0.050	0.046	92	4	75-125	25	

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Maljamar Plant

Work Order #: 350336

Lab Batch ID: 780197

Date Analyzed: 11/03/2009

Reporting Units: mg/L

Project ID:

QC-Sample ID: 350360-004 S

Batch #: 1

Matrix: Water

Date Prepared: 11/03/2009

Analyst: JEA

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
Reporting Units: mg/L	VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.050	0.046	92	0.050	0.049	98	6	66-142	21	
	Bromobenzene	ND	0.050	0.042	84	0.050	0.045	90	7	60-130	20	
	Bromochloromethane	ND	0.050	0.047	94	0.050	0.053	106	12	73-125	20	
	Bromodichloromethane	ND	0.050	0.049	98	0.050	0.052	104	6	75-125	20	
	Bromoform	ND	0.050	0.043	86	0.050	0.049	98	13	75-125	20	
	Bromomethane	ND	0.050	0.048	96	0.050	0.047	94	2	70-130	20	
	MTBE	ND	0.050	0.049	98	0.050	0.052	104	6	75-125	20	
	n-Butylbenzene	ND	0.050	0.041	82	0.050	0.044	88	7	75-125	20	
	Sec-Butylbenzene	ND	0.050	0.040	80	0.050	0.044	88	10	75-125	20	
	tert-Butylbenzene	ND	0.050	0.041	82	0.050	0.043	86	5	75-125	20	
	Carbon Tetrachloride	ND	0.050	0.042	84	0.050	0.045	90	7	62-125	20	
	Chlorobenzene	ND	0.050	0.042	84	0.050	0.043	86	2	60-133	21	
	Chloroethane	ND	0.050	0.044	88	0.050	0.046	92	4	70-130	20	
	Chloroform	ND	0.050	0.048	96	0.050	0.051	102	6	74-125	20	
	Chloromethane	ND	0.050	0.041	82	0.050	0.042	84	2	70-130	20	
	2-Chlorotoluene	ND	0.050	0.041	82	0.050	0.045	90	9	73-125	20	
	4-Chlorotoluene	ND	0.050	0.042	84	0.050	0.046	92	9	74-125	20	
	p-Cymene (p-Isopropyltoluene)	ND	0.050	0.041	82	0.050	0.045	90	9	75-125	20	
	Dibromochloromethane	ND	0.050	0.043	86	0.050	0.045	90	5	60-130	20	
	1,2-Dibromo-3-Chloropropane	ND	0.050	0.051	102	0.050	0.054	108	6	59-125	28	
	1,2-Dibromoethane	ND	0.050	0.049	98	0.050	0.051	102	4	73-125	20	
	Dibromomethane	ND	0.050	0.050	100	0.050	0.056	112	11	69-127	23	
	1,2-Dichlorobenzene	ND	0.050	0.042	84	0.050	0.046	92	9	75-125	20	

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

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

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

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

Client: Frontier Field Services
Date/ Time: 10.29.09 16:30
Lab ID #: 390336
Initials: AL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>1.5</u> °C	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELDT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: VOC subbed to Xence - Dallas

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



Maljamar Gas Plant

Monthly R.O. Discharge to Playa Lake

Date	Meter Reading	Gallons per Month	Barrels per Month	Cumulative BBL	Monthly Average BBL
	1,675,630				
January 1, 2008	1,692,520	16,890	402	402	402
February 1, 2008	1,706,260	13,740	327	729	365
March 1, 2008	1,717,150	10,890	259	989	330
April 1, 2008	1,728,120	10,970	261	1,250	312
May 1, 2008	1,738,570	10,450	249	1,499	300
June 1, 2008	1,749,340	10,770	256	1,755	253
July 1, 2008	1,757,990	8,650	206	1,961	231
August 1, 2008	1,767,130	9,140	218	2,179	227
September 1, 2008	1,775,220	8,090	193	2,371	218
October 1, 2008	1,783,210	7,990	190	2,561	213
November 1, 2008	1,792,890	9,680	230	2,792	216
December 1, 2008	1,802,190	9,300	221	3,013	216
January 1, 2009	1,811,620	9,430	225	3,238	217
February 1, 2009	1,820,000	8,380	200	3,437	215
March 1, 2009	1,828,090	8,090	193	3,630	213
April 1, 2009	1,836,620	8,530	203	3,833	212
May 1, 2009	1,843,990	7,370	175	4,009	209
June 1, 2009	1,851,580	7,590	181	4,189	207
July 1, 2009	1,858,420	6,840	163	4,352	172
August 1, 2009	1,865,690	7,270	173	4,525	172
September 1, 2009	1,873,070	7,380	176	4,701	173
October 1, 2008	1,879,520	6,450	154	4,855	169
November 1, 2009	1,886,990	7,470	178	5,032	171
December 1, 2009		-1,886,990	-44,928	-39,896	-6,272
January 1, 2010		0	0	-39,896	-5,488
February 1, 2010		0	0	-39,896	-4,878
March 1, 2010		0	0	-39,896	-4,390
April 1, 2010		0	0	-39,896	-3,991
May 1, 2010		0	0	-39,896	-3,659
June 1, 2010		0	0	-39,896	-3,377
July 1, 2010		0	0	-39,896	0
August 1, 2010		0	0	-39,896	0
September 1, 2010		0	0	-39,896	0
October 1, 2010		0	0	-39,896	0
November 1, 2010		0	0	-39,896	0
December 1, 2010		0	0	-39,896	0