

# ANALYTICAL RESULTS

PERFORMED BY

**GULF COAST ANALYTICAL LABORATORIES, INC.**

7979 GSRI Avenue  
Baton Rouge, LA 70820

**Report Date** 11/12/2012

**GCAL Report** 212103031



**Deliver To** Shaw Environmental  
4171 Essen Lane  
Baton Rouge, LA 70809  
987-7335

**Attn** Lisa Pultz

**Project** LDNR Bayou Come 147497

## CASE NARRATIVE

**Client:** Shaw Environmental      **Report:** 212103031

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

### **VOLATILES GAS CHROMATOGRAPHY**

In the RSK 175 analysis, all samples had to be diluted to bracket the concentrations of target analytes within the calibration range of the instrument. The recoveries for the surrogates are not applicable for those analyses performed at a 10 or higher dilution

In the RSK 175 analysis for analytical batch 494064, the MS/MSD recoveries are not applicable for Methane and Ethane because the spike was diluted out of the samples. The LCS recoveries are acceptable.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

## Common Abbreviations Utilized in this Report

<b>ND</b>	Indicates the result was Not Detected at the specified RDL
<b>DO</b>	Indicates the result was Diluted Out
<b>MI</b>	Indicates the result was subject to Matrix Interference
<b>TNTC</b>	Indicates the result was Too Numerous To Count
<b>SUBC</b>	Indicates the analysis was Sub-Contracted
<b>FLD</b>	Indicates the analysis was performed in the Field
<b>PQL</b>	Practical Quantitation Limit
<b>MDL</b>	Method Detection Limit
<b>RDL</b>	Reporting Detection Limit
<b>00:00</b>	Reported as a time equivalent to 12:00 AM

## Reporting Flags Utilized in this Report

<b>J</b>	Indicates the result is between the MDL and RDL
<b>U</b>	Indicates the compound was analyzed for but not detected
<b>B</b>	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with [NELAC](#), this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

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Robyn Miguez  
Technical Director  
**GCAL REPORT 212103031**

# Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303101	007-131-103012	Water	10/30/2012 09:45	10/30/2012 16:25
21210303102	007-098-103012	Water	10/30/2012 10:10	10/30/2012 16:25
21210303103	007-072-103012	Water	10/30/2012 10:50	10/30/2012 16:25
21210303104	007-072-103012-MS	Water	10/30/2012 10:50	10/30/2012 16:25
21210303105	007-072-103012-MSD	Water	10/30/2012 10:50	10/30/2012 16:25
21210303106	007-073-103012	Water	10/30/2012 11:40	10/30/2012 16:25
21210303107	007-081-103012	Water	10/30/2012 13:00	10/30/2012 16:25
21210303108	FIELD DUP 8009-103012	Water	10/30/2012 00:00	10/30/2012 16:25
21210303109	007-080-103012	Water	10/30/2012 13:40	10/30/2012 16:25
21210303110	007-090-103012	Water	10/30/2012 14:00	10/30/2012 16:25
21210303111	007-089-103012	Water	10/30/2012 14:30	10/30/2012 16:25

# Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303101	007-131-103012	Water	10/30/2012 09:45	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	9950	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.25	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	11800	3000		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	92.6	50.0		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303102	007-098-103012	Water	10/30/2012 10:10	10/30/2012 16:25

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	1.36	1.00		ug/L

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	11200	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.25	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	19000	3000		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303103	007-072-103012	Water	10/30/2012 10:50	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	9490	10		umhos/cm

# Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303103	007-072-103012	Water	10/30/2012 10:50	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
Temp	Temperature	20.0			Deg C
pH	pH	7.39	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	6.20	5.50		ug/L
74-98-6	Propane	48.0	10.0		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	17500	3000		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	581	300		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303104	007-072-103012-MS	Water	10/30/2012 10:50	10/30/2012 16:25

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	61.5	5.50		ug/L
74-85-1	Ethene	2.73	1.00		ug/L
74-98-6	Propane	89.7	10.0		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	21000	4500		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	622	300		ug/L

# Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303105	007-072-103012-MSD	Water	10/30/2012 10:50	10/30/2012 16:25

**RSK 175**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	61.9	5.50		ug/L
74-85-1	Ethene	2.76	1.00		ug/L
74-98-6	Propane	92.2	10.0		ug/L

**RSK 175**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	17800	4500		ug/L

**RSK 175**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	521	300		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303106	007-073-103012	Water	10/30/2012 11:40	10/30/2012 16:25

**RSK 175**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	24.5	5.50		ug/L
74-98-6	Propane	149	10.0		ug/L

**SM 4500S H Hydrogen Sulfide**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	7210	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.41	1.00		pH unit

**RSK 175**

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	1060	900		ug/L
74-82-8	Methane	32600	4500		ug/L

# Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303107	007-081-103012	Water	10/30/2012 13:00	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	9670	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.82	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	26500	4500		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	496	100		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303108	FIELD DUP 8009-103012	Water	10/30/2012 00:00	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	9660	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.25	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	27700	4500		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	519	100		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303109	007-080-103012	Water	10/30/2012 13:40	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	7110	10		umhos/cm



# Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303109	007-080-103012	Water	10/30/2012 13:40	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
Temp	Temperature	20.0			Deg C
pH	pH	7.32	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	5.16	1.00		ug/L
74-98-6	Propane	24.6	10.0		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	17300	3000		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303110	007-090-103012	Water	10/30/2012 14:00	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	9040	10		umhos/cm
Temp	Temperature	20.0			Deg C
pH	pH	7.51	1.00		pH unit

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	3660	1000		ug/L

## RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	39.2	10.0		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303111	007-089-103012	Water	10/30/2012 14:30	10/30/2012 16:25

## SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	5130	10		umhos/cm

## Summary of Compounds Detected (con't)

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303111	007-089-103012	Water	10/30/2012 14:30	10/30/2012 16:25

### SM 4500S H Hydrogen Sulfide

CAS#	Parameter	Result	RDL	REG LIMIT	Units
Temp	Temperature	20.0			Deg C
pH	pH	7.30	1.00		pH unit

### RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	9.61	5.50		ug/L
74-98-6	Propane	55.5	10.0		ug/L

### RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	734	200		ug/L

### RSK 175

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	23200	3000		ug/L

<b>GCAL ID</b> 21210303101	<b>Client ID</b> 007-131-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 09:45	<b>Receive Date/Time</b> 10/30/2012 16:25
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### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/07/2012 15:10	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	<5.50	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	<10.0	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	25.8	ug/L	64	40 - 143

### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 50	<b>Analyzed</b> 11/07/2012 15:20	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-84-0</b>	<b>Ethane</b>	<b>92.6</b>	<b>50.0</b>		<b>ug/L</b>

### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 600	<b>Analyzed</b> 11/07/2012 15:27	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>11800</b>	<b>3000</b>		<b>ug/L</b>

### SM 4500S H Hydrogen Sulfide

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/01/2012 13:30	<b>By</b> CALC	<b>Analytical Batch</b> 493621
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>9950</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.25</b>	<b>1.00</b>		<b>pH unit</b>

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303102	007-098-103012	Water	10/30/2012 10:10	10/30/2012 16:25

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2012 15:35	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units	
106-97-8	Butane	<5.50	5.50		ug/L	
<b>74-84-0</b>	<b>Ethane</b>	<b>1.36</b>	<b>1.00</b>		<b>ug/L</b>	
74-85-1	Ethene	<1.00	1.00		ug/L	
74-98-6	Propane	<10.0	10.0		ug/L	
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	28.4	ug/L	70	40 - 143

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			600	11/07/2012 15:44	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>19000</b>	<b>3000</b>		<b>ug/L</b>

SM 4500S H Hydrogen Sulfide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 13:30	CALC	493621

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>11200</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.25</b>	<b>1.00</b>		<b>pH unit</b>

<b>GCAL ID</b> 21210303103	<b>Client ID</b> 007-072-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 10:50	<b>Receive Date/Time</b> 10/30/2012 16:25
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**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/07/2012 16:00	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	6.20	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	48.0	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	30.1	ug/L	74	40 - 143

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 600	<b>Analyzed</b> 11/07/2012 16:11	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	17500	3000		ug/L

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 300	<b>Analyzed</b> 11/07/2012 16:56	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	581	300		ug/L

**SM 4500S H Hydrogen Sulfide**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/01/2012 13:30	<b>By</b> CALC	<b>Analytical Batch</b> 493621
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
C-011	Specific Conductance	9490	10		umhos/cm
18496-25-8	Sulfide	<2.00	2.00		mg/L
Temp	Temperature	20.0			Deg C
pH	pH	7.39	1.00		pH unit

<b>GCAL ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Collect Date/Time</b>	<b>Receive Date/Time</b>
21210303104	007-072-103012-MS	Water	10/30/2012 10:50	10/30/2012 16:25

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analyzed</b>	<b>By</b>	<b>Analytical Batch</b>
			1	11/07/2012 17:04	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	61.5	5.50		ug/L
74-85-1	Ethene	2.73	1.00		ug/L
74-98-6	Propane	89.7	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	27.4	ug/L	68	40 - 143

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analyzed</b>	<b>By</b>	<b>Analytical Batch</b>
			300	11/07/2012 17:29	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	622	300		ug/L

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analyzed</b>	<b>By</b>	<b>Analytical Batch</b>
			900	11/07/2012 18:03	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	21000	4500		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303105	007-072-103012-MSD	Water	10/30/2012 10:50	10/30/2012 16:25

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2012 17:17	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	61.9	5.50		ug/L
74-85-1	Ethene	2.76	1.00		ug/L
74-98-6	Propane	92.2	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	27.8	ug/L	69	40 - 143

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			300	11/07/2012 17:46	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	521	300		ug/L

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			900	11/07/2012 18:36	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	17800	4500		ug/L

<b>GCAL ID</b> 21210303106	<b>Client ID</b> 007-073-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 11:40	<b>Receive Date/Time</b> 10/30/2012 16:25
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**RSK 175**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2012 18:58	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	24.5	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	149	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	22.4	ug/L	55	40 - 143

**RSK 175**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			900	11/07/2012 19:06	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	1060	900		ug/L
74-82-8	Methane	32600	4500		ug/L

**SM 4500S H Hydrogen Sulfide**

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 13:30	CALC	493621

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
C-011	Specific Conductance	7210	10		umhos/cm
18496-25-8	Sulfide	<2.00	2.00		mg/L
Temp	Temperature	20.0			Deg C
pH	pH	7.41	1.00		pH unit



<b>GCAL ID</b> 21210303107	<b>Client ID</b> 007-081-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 13:00	<b>Receive Date/Time</b> 10/30/2012 16:25
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### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/07/2012 19:27	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	<5.50	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	<10.0	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	23.9	ug/L	59	40 - 143

### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 100	<b>Analyzed</b> 11/07/2012 19:35	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-84-0</b>	<b>Ethane</b>	<b>496</b>	<b>100</b>		<b>ug/L</b>

### RSK 175

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 900	<b>Analyzed</b> 11/07/2012 19:43	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>26500</b>	<b>4500</b>		<b>ug/L</b>

### SM 4500S H Hydrogen Sulfide

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/01/2012 13:30	<b>By</b> CALC	<b>Analytical Batch</b> 493621
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>9670</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.82</b>	<b>1.00</b>		<b>pH unit</b>

<b>GCAL ID</b> 21210303108	<b>Client ID</b> FIELD DUP 8009-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 00:00	<b>Receive Date/Time</b> 10/30/2012 16:25
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**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/07/2012 19:51	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	<5.50	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	<10.0	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	24.3	ug/L	60	40 - 143

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 100	<b>Analyzed</b> 11/07/2012 20:04	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-84-0</b>	<b>Ethane</b>	<b>519</b>	<b>100</b>		<b>ug/L</b>

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 900	<b>Analyzed</b> 11/07/2012 20:12	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>27700</b>	<b>4500</b>		<b>ug/L</b>

**SM 4500S H Hydrogen Sulfide**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/01/2012 13:30	<b>By</b> CALC	<b>Analytical Batch</b> 493621
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>9660</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.25</b>	<b>1.00</b>		<b>pH unit</b>

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21210303109	007-080-103012	Water	10/30/2012 13:40	10/30/2012 16:25

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2012 20:33	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units	
106-97-8	Butane	<5.50	5.50		ug/L	
<b>74-84-0</b>	<b>Ethane</b>	<b>5.16</b>	<b>1.00</b>		<b>ug/L</b>	
74-85-1	Ethene	<1.00	1.00		ug/L	
<b>74-98-6</b>	<b>Propane</b>	<b>24.6</b>	<b>10.0</b>		<b>ug/L</b>	
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	24.6	ug/L	61	40 - 143

RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			600	11/07/2012 20:44	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>17300</b>	<b>3000</b>		<b>ug/L</b>

SM 4500S H Hydrogen Sulfide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 13:30	CALC	493621

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>7110</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.32</b>	<b>1.00</b>		<b>pH unit</b>

<b>GCAL ID</b> 21210303110	<b>Client ID</b> 007-090-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 14:00	<b>Receive Date/Time</b> 10/30/2012 16:25
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**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/07/2012 20:53	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	<5.50	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	<10.0	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	26.5	ug/L	65	40 - 143

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 200	<b>Analyzed</b> 11/07/2012 21:02	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-82-8</b>	<b>Methane</b>	<b>3660</b>	<b>1000</b>		<b>ug/L</b>

**RSK 175**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 10	<b>Analyzed</b> 11/07/2012 21:51	<b>By</b> BMR	<b>Analytical Batch</b> 494064
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
<b>74-84-0</b>	<b>Ethane</b>	<b>39.2</b>	<b>10.0</b>		<b>ug/L</b>

**SM 4500S H Hydrogen Sulfide**

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b> 1	<b>Analyzed</b> 11/01/2012 13:30	<b>By</b> CALC	<b>Analytical Batch</b> 493621
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CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
<b>C-011</b>	<b>Specific Conductance</b>	<b>9040</b>	<b>10</b>		<b>umhos/cm</b>
18496-25-8	Sulfide	<2.00	2.00		mg/L
<b>Temp</b>	<b>Temperature</b>	<b>20.0</b>			<b>Deg C</b>
<b>pH</b>	<b>pH</b>	<b>7.51</b>	<b>1.00</b>		<b>pH unit</b>

<b>GCAL ID</b> 21210303111	<b>Client ID</b> 007-089-103012	<b>Matrix</b> Water	<b>Collect Date/Time</b> 10/30/2012 14:30	<b>Receive Date/Time</b> 10/30/2012 16:25
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### RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/07/2012 22:04	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-97-8	Butane	9.61	5.50		ug/L
74-85-1	Ethene	<1.00	1.00		ug/L
74-98-6	Propane	55.5	10.0		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.5	23.3	ug/L	58	40 - 143

### RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			200	11/07/2012 22:16	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-84-0	Ethane	734	200		ug/L

### RSK 175

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			600	11/07/2012 22:24	BMR	494064

CAS#	Parameter	Result	RDL	REG LIMIT	Units
74-82-8	Methane	23200	3000		ug/L

### SM 4500S H Hydrogen Sulfide

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/01/2012 13:30	CALC	493621

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7783-06-4	Hydrogen Sulfide, Unionized	<2.00	2.00		mg S/L
C-011	Specific Conductance	5130	10		umhos/cm
18496-25-8	Sulfide	<2.00	2.00		mg/L
Temp	Temperature	20.0			Deg C
pH	pH	7.30	1.00		pH unit

# General Chromatography Quality Control Summary

<b>Analytical Batch</b> 494064 <b>Prep Batch</b> N/A	<b>Client ID</b> MB494064 <b>GCAL ID</b> 1125768 <b>Sample Type</b> Method Blank <b>Analytical Date</b> 11/07/2012 12:35 <b>Matrix</b> Water	LCS494064 1125769 LCS 11/07/2012 12:48 Water	LCSD494064 1126094 LCSD 11/07/2012 14:09 Water								
<b>RSK 175</b>		<b>Units</b> <b>Result</b>	<b>ug/L</b> <b>RDL</b>	<b>Spike</b> <b>Added</b>	<b>Result</b>	<b>% R</b>	<b>Control</b> <b>Limits % R</b>	<b>Result</b>	<b>% R</b>	<b>RPD</b>	<b>RPD</b> <b>Limit</b>
74-82-8	Methane	<5.00	5.00	17.5	15.0	86	39 - 120	14.1	81	6	27
74-85-1	Ethene	<1.00	1.00	3.06	2.95	96	45 - 134	2.65	87	11	25
74-84-0	Ethane	<1.00	1.00	3.28	2.90	88	45 - 128	2.65	81	9	29
74-98-6	Propane	<10.0	10.0	50.7	42.4	84	30 - 170	42.4	84	0	40
106-97-8	Butane	<5.50	5.50	81.2	70.1	86	30 - 170	62.8	77	11	40
<b>Surrogate</b>											
115-07-1	Propene	33.2	82	40.5	30.8	76	40 - 143	26.7	66		

<b>Analytical Batch</b> 494064 <b>Prep Batch</b> N/A	<b>Client ID</b> 007-072-103012 <b>GCAL ID</b> 21210303103 <b>Sample Type</b> SAMPLE <b>Analytical Date</b> 11/07/2012 16:00 <b>Matrix</b> Water	007-072-103012-MS 21210303104 MS 11/07/2012 17:04 Water	007-072-103012-MSD 21210303105 MSD 11/07/2012 17:17 Water								
<b>RSK 175</b>		<b>Units</b> <b>Result</b>	<b>ug/L</b> <b>RDL</b>	<b>Spike</b> <b>Added</b>	<b>Result</b>	<b>% R</b>	<b>Control</b> <b>Limits % R</b>	<b>Result</b>	<b>% R</b>	<b>RPD</b>	<b>RPD</b> <b>Limit</b>
106-97-8	Butane	6.20	5.50	81.2	61.5	68	30 - 170	61.9	69	0.6	40
74-85-1	Ethene	0.00	1.00	3.06	2.73	89	45 - 134	2.76	90	1	25
74-98-6	Propane	48.0	10.0	50.7	89.7	82	30 - 170	92.2	87	3	40
<b>Surrogate</b>											
115-07-1	Propene	30.1	74	40.5	27.4	68	40 - 143	27.8	69		

<b>Analytical Batch</b> 494064 <b>Prep Batch</b> N/A	<b>Client ID</b> 007-072-103012 <b>GCAL ID</b> 21210303103 <b>Sample Type</b> SAMPLE <b>Analytical Date</b> 11/07/2012 16:11 <b>Matrix</b> Water	007-072-103012-MS 21210303104 MS 11/07/2012 18:03 Water	007-072-103012-MSD 21210303105 MSD 11/07/2012 18:36 Water								
<b>RSK 175</b>		<b>Units</b> <b>Result</b>	<b>ug/L</b> <b>RDL</b>	<b>Spike</b> <b>Added</b>	<b>Result</b>	<b>% R</b>	<b>Control</b> <b>Limits % R</b>	<b>Result</b>	<b>% R</b>	<b>RPD</b>	<b>RPD</b> <b>Limit</b>
74-82-8	Methane	17500	3000	17.5	21000	20000*	39 - 120	17800	1710*	16	27

# General Chromatography Quality Control Summary

<b>Analytical Batch</b> 494064 <b>Prep Batch</b> N/A		<b>Client ID</b> 007-072-103012 <b>GCAL ID</b> 21210303103 <b>Sample Type</b> SAMPLE <b>Analytical Date</b> 11/07/2012 16:56 <b>Matrix</b> Water			007-072-103012-MS 21210303104 MS 11/07/2012 17:29 Water			007-072-103012-MSD 21210303105 MSD 11/07/2012 17:46 Water			
<b>RSK 175</b>		<b>Units</b>	ug/L	<b>Spike</b>	<b>Result</b>	<b>% R</b>	<b>Control</b>	<b>Result</b>	<b>% R</b>	<b>RPD</b>	<b>RPD</b>
		<b>Result</b>	<b>RDL</b>	<b>Added</b>			<b>Limits % R</b>				<b>Limit</b>
74-84-0	Ethane	581	300	3.28	622	1250*	45 - 128	521	-2000*	18	29

# General Chemistry Quality Control Summary

<b>Analytical Batch</b> 493621 <b>Prep Batch</b> N/A	<b>Client ID</b> 007-131-103012 <b>GCAL ID</b> 21210303101 <b>Sample Type</b> SAMPLE <b>Analytical Date</b> 11/01/2012 13:30 <b>Matrix</b> Water	1122775DUP 1123407 DUP 11/01/2012 13:30 Water			
<b>SM 4500S H Hydrogen Sulfide</b>	<b>Units</b> <b>Result</b>	<b>pH unit</b> <b>RDL</b>	<b>Result</b>	<b>RPD</b>	<b>RPD Limit</b>
pH	7.25	1.00	7.26	0.1	6
18496-25-8 Sulfide	0.000	2.00	0.000	0	25
C-011 Specific Conductance	9950	10	9960	0.1	25
Temp Temperature	20.0		20.0	0.00	
7783-06-4 Hydrogen Sulfide, Unionized	0.000	2.00	0.000	0	25



7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402  
Phone 225.769.4900 • Fax 225.767.5717

Lab use only

Shaw

Client Name

0270

Client #

212103031

Workorder #

11/21/12

Due Date

<b>Report to:</b> Client: <u>Shaw ETC</u> Address: <u>4171 Essen Ln.</u> <u>Baton Rouge LA.</u> Contact: <u>Hugh Adams</u> Phone: _____ Fax: _____		<b>Bill to:</b> Client: <u>Shaw</u> Address: _____ Contact: <u>Lisa Pultz</u> Phone: _____ Fax: _____		Analytical Requests & Method Hydrogen Sulfide in water Diss. Gas by RISK-175 (methane, ethane, ethane, butane, propane)	<b>Lab use only:</b> Custody Seal used <input type="checkbox"/> yes <input checked="" type="checkbox"/> no intact <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Temperature °C <u>5.9</u>	
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P.O. Number	Project Name/Number <u>LDNR-Bayou Corne (Industrial water well sampling)</u>
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Sampled By: Kevin Simoneaux / David Rust

Matrix	Date	Time (2400)	CO P	Gr ab	Sample Description	Preservatives	No Con- tainers	Remarks:	Lab ID
W	10/30/12	0945		X	007-136-103012	—	4		-1
		1010			007-098-103012				2
		1050			007-072-103012				3
		1050			007-072-103012-MS				4
		1050			007-072-103012-MSD				5
		1140			007-073-103012 <del>Ⓟ</del>				6
		1300			007-081-103012				7
		—			Field DUP8009-103012				8
		1340			007-050-103012				9
		1400			007-090-103012				10
W	10/30/12	1430		X	007-089-103012	—	4		11

Turn Around Time:  24-48 hrs.  3 days  1 week  Standard  Other \_\_\_\_\_

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>Jules Hebert</u>	Date: <u>10-30-12</u>	Time: <u>1605</u>	Note:  By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.
Relinquished by: (Signature) <u>Jules Hebert</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>10-30-12</u>	Time: <u>1625</u>	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT



**SAMPLE RECEIVING CHECKLIST**

<b>SAMPLE DELIVERY GROUP 212103031</b>		<b>CHECKLIST</b>	
<b>Client</b> 0270 - Shaw Environmental	<b>Transport Method</b> COURIER	Were all samples received using proper thermal preservation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		When used, were all custody seals intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
<b>Profile</b> 235534 - LDNR Bayou Corne 147497	<b>Received By</b> Kinchen, Anna M.	Were all samples received in proper containers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		Were all samples received using proper chemical preservation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
<b>Line Item(s)</b> 2 - Standard TAT Waters	<b>Receive Date(s)</b> 10/30/12	Was preservative added to any container at the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
		Were all containers received in good condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		Were all VOA vials received with no head space?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		Do all sample labels match the Chain of Custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		Did the Chain of Custody list the sampling technician?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
		Was the COC maintained i.e. all signatures, dates and time of receipt included?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
<b>COOLERS</b>		<b>DISCREPANCIES</b>	<b>LABORATORY PRESERVATIONS</b>
<b>Airbill</b>	<b>Temp(°C)</b>	None	None
	5.9		
<b>NOTES</b>			