



ACCUTEST GULF COAST  
 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

Case Narrative for:  
**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

Certificate of Analysis Number:

**L0021467**

<p><b>Report To:</b></p> <p><b>SHAW ENVIRONMENTAL &amp; INFRASTRUCTURE</b>  <b>LISA PULTZ</b>  <b>4171 ESSEN LANE</b></p> <p><b>BATON ROUGE</b>  <b>LA</b>  <b>70809-</b>  <b>ph: (225) 932-2500      fax: (225) 987-7300</b></p>	<p><b>Project Name:</b> 147497 LDNR- BAYOU CORNE</p> <p><b>Site:</b> LDNR/BAYOU CORNE</p> <p><b>Site Address:</b></p> <p><b>PO Number:</b> 817098</p> <p><b>State:</b> Louisiana</p> <p><b>State Cert. No.:</b> 02048</p> <p><b>Date Reported:</b> 11/2/2012</p>
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Cristina Thibeaux  
 Project Manager

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11/2/2012

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011



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**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

Certificate of Analysis Number:

**L0021467**

**Report To:** SHAW ENVIRONMENTAL & INFRASTRUCTURE  
 LISA PULTZ  
 4171 ESSEN LANE  
  
 BATON ROUGE  
 LA  
 70809-  
 ph: (225) 932-2500 fax: (225) 987-7300

**Project Name:** 147497 LDNR- BAYOU CORNE  
**Site:** LDNR/BAYOU CORNE  
**Site Address:**  
  
**PO Number:** 817098  
**State:** Louisiana  
**State Cert. No.:** 02048  
**Date Reported:** 11/2/2012

**Fax To:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
007-095-101812 OXY3 WATER WELL	L0021467-01	Water	10/18/2012 12:10	10/20/2012 9:45:00 AM		<input type="checkbox"/>

*Cristina C. Thibeaux*

Cristina Thibeaux  
 Project Manager

11/2/2012

Date

Ron Benjamin  
 Laboratory Director

Rebecca Haryett  
 Quality Assurance Officer



ACCUTEST GULF COAST  
 500 AMBASSADOR CAFFERY PARKWAY  
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Client Sample ID:007-095-101812 OXY3 WATER WEL Collected: 10/18/2012 12:10 Lab Sample ID: L0021467-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>ALKALINITY, BICARBONATE (AS CaCO3)</b>				<b>MCL</b>	<b>M2320 B</b>	<b>Units: mg/L CaCO3</b>	
Alkalinity, Bicarbonate (As CaCO3)	452		5.00	1	10/31/12 18:32	RDH	4779264
<b>ALKALINITY, CARBONATE (AS CaCO3)</b>				<b>MCL</b>	<b>M2320 B</b>	<b>Units: mg/L CaCO3</b>	
Alkalinity, Carbonate (As CaCO3)	ND		5.00	1	10/31/12 18:32	RDH	4779255
<b>ANIONS BY IC USING EPA 300.0</b>				<b>MCL</b>	<b>E300.0</b>	<b>Units: mg/L</b>	
Bromide	1.56		0.25	1	11/01/12 0:54	JMR	4779711
Nitrate (as N)	0.084		0.05	1	11/01/12 0:54	JMR	4779711
Sulfate	7.69		0.25	1	11/01/12 0:54	JMR	4779711
<b>CHLORIDE BY SM4500</b>				<b>MCL</b>	<b>M4500-CL C</b>	<b>Units: mg/L</b>	
Chloride	1490		250	50	10/25/12 14:00	JMR	4773393

Prep Method	Prep Date	Prep Initials	Prep Factor
	10/25/2012 14:00		1.00

<b>EXTRACTABLE PETROLEUM HYDROCARBONS- RECAP</b>				<b>MCL</b>	<b>MA_VPH_EPH</b>	<b>Units: mg/L</b>	
C10-C12 Aliphatics	ND		0.15	1	10/24/12 19:14	E_G	4771501
C10-C12 Aromatics	ND		0.15	1	10/24/12 19:14	E_G	4771269
C12-C16 Aliphatics	ND		0.15	1	10/24/12 19:14	E_G	4771501
C12-C16 Aromatics	ND		0.15	1	10/24/12 19:14	E_G	4771269
C16-C21 Aromatics	ND		0.15	1	10/24/12 19:14	E_G	4771269
C16-C35 Aliphatics	ND		0.15	1	10/24/12 19:14	E_G	4771501
C21-C35 Aromatics	ND		0.15	1	10/24/12 19:14	E_G	4771269
Surr: 2-Fluorobiphenyl	123	%	40-140	1	10/24/12 19:14	E_G	4771269
Surr: Chloro-octadecane	102	%	40-140	1	10/24/12 19:14	E_G	4771501
Surr: o-Terphenyl	132	%	40-140	1	10/24/12 19:14	E_G	4771269

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/22/2012 14:51	DWB	1.00

<b>MERCURY, TOTAL BY COLD VAPOR</b>				<b>MCL</b>	<b>SW7470A</b>	<b>Units: mg/L</b>	
Mercury	ND		0.0002	1	10/23/12 10:38	SA	4769940

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	10/23/2012 13:00	SA	1.00

**Qualifiers:** ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)  
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution  
 \* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference  
 J - Estimated value between MDL and PQL  
 E - Estimated Value exceeds calibration curve  
 TNTC - Too numerous to count

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 11/2/2012 8:35:14 AM



ACCUTEST GULF COAST  
 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

Client Sample ID:007-095-101812 OXY3 WATER WEL Collected: 10/18/2012 12:10 Lab Sample ID: L0021467-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>METALS BY METHOD 6020 (ICP/MS), TOTAL</b>				<b>MCL</b>	<b>SW6020</b>	<b>Units: mg/L</b>	
Aluminum	ND		0.25	5	10/26/12 11:49	RJD	4772983
Antimony	ND		0.025	5	10/26/12 11:49	RJD	4772983
Arsenic	0.0547		0.02	5	10/26/12 11:49	RJD	4772983
Barium	2.76		0.025	5	10/26/12 11:49	RJD	4772983
Beryllium	ND		0.01	5	10/26/12 11:49	RJD	4772983
Cadmium	ND		0.01	5	10/26/12 11:49	RJD	4772983
Calcium	99.9		1	5	10/26/12 11:49	RJD	4772983
Chromium	ND		0.02	5	10/26/12 11:49	RJD	4772983
Cobalt	ND		0.01	5	10/26/12 11:49	RJD	4772983
Copper	ND		0.01	5	10/26/12 11:49	RJD	4772983
Iron	11.8		0.5	5	10/26/12 11:49	RJD	4772983
Lead	ND		0.005	5	10/26/12 11:49	RJD	4772983
Magnesium	33.6		0.25	5	10/26/12 11:49	RJD	4772983
Manganese	0.267		0.01	5	10/26/12 11:49	RJD	4772983
Nickel	ND		0.01	5	10/26/12 11:49	RJD	4772983
Potassium	9.49		0.375	5	10/26/12 11:49	RJD	4772983
Selenium	ND		0.025	5	10/26/12 11:49	RJD	4772983
Silver	ND		0.005	5	10/26/12 11:49	RJD	4772983
Sodium	811		0.5	5	10/26/12 11:49	RJD	4772983
Thallium	ND		0.01	5	10/26/12 11:49	RJD	4772983
Vanadium	ND		0.05	5	10/26/12 11:49	RJD	4772983
Zinc	ND		0.03	5	10/26/12 11:49	RJD	4772983

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	10/22/2012 17:00	LAB	1.00

<b>RECAP DIESEL RANGE ORGANICS BY METHOD 8015C</b>			<b>MCL</b>	<b>SW8015C</b>	<b>Units: mg/L</b>
Diesel Range Organics (C10-C28)	ND	0.15	1	10/30/12 3:03	E_G 4775942
Surr: o-Terphenyl	78.1	% 47-125	1	10/30/12 3:03	E_G 4775942

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/24/2012 15:59	DGP	1.00

<b>RECAP GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015C</b>	<b>Units: mg/L</b>
Gasoline Range Organics (C6-C10)	ND	0.1	1	10/24/12 3:21	JHP 4768709
Surr: 1,4-Difluorobenzene	106	% 70-135	1	10/24/12 3:21	JHP 4768709
Surr: 4-Bromofluorobenzene	103	% 89-126	1	10/24/12 3:21	JHP 4768709

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 E - Estimated Value exceeds calibration curve  
 TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)  
 D - Surrogate Recovery Unreportable due to Dilution  
 MI - Matrix Interference

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 11/2/2012 8:35:14 AM

Client Sample ID:007-095-101812 OXY3 WATER WEL Collected: 10/18/2012 12:10 Lab Sample ID: L0021467-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<b>RECAP OIL RANGE ORGANICS</b>				<b>MCL</b>	<b>SW8015C</b>	<b>Units: mg/L</b>	
Oil Range Organics (C28-C35)	ND		0.15	1	10/30/12 3:03	E_G	4775965
Surr: o-Terphenyl	78.1		% 47-125	1	10/30/12 3:03	E_G	4775965

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/24/2012 16:00	DGP	1.00

RECAP VOLATILE PETROLEUM HYDROCARBONS BY MA-DE	MCL	MA_VPH_EPH	Units: mg/L
C6-C8 Aliphatics	ND	0.03	1 10/24/12 21:58 RVS 4770639
C8-C10 Aliphatics	ND	0.06	1 10/24/12 21:58 RVS 4770639
C8-C10 Aromatics	ND	0.06	1 10/24/12 21:58 RVS 4770640
Surr: 2,5-Dibromotoluene	110	% 70-130	1 10/24/12 21:58 RVS 4770639
Surr: 2,5-Dibromotoluene	101	% 70-130	1 10/24/12 21:58 RVS 4770640

SPECIFIC CONDUCTANCE @ 25 C - SM2510B	MCL	M2510 B	Units: umhos/cm
Specific Conductance	4470	10.0	1 10/22/12 12:00 SM 4767696

TOTAL DISSOLVED SOLIDS BY SM2540 C	MCL	M2540 C	Units: mg/L
Total Dissolved Solids (Residue,filterable)	2400	10	1 10/22/12 15:50 SPM 4767497

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# *Quality Control Documentation*



ACCUTEST GULF COAST  
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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Extractable Petroleum Hydrocarbons- RECAP  
 Method: MA\_VPH\_EPH

WorkOrder: L0021467  
 Lab Batch ID: 116009

Method Blank

Samples in Analytical Batch:

RunID: TPHA\_121024B-4771498 Units: mg/L  
 Analysis Date: 10/24/2012 17:52 Analyst: E\_G  
 Preparation Date: 10/22/2012 14:51 Prep By: DW Method: SW3511

Lab Sample ID: L0021467-01A  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
C10-C12 Aliphatics	ND	0.15
C12-C16 Aliphatics	ND	0.15
C16-C35 Aliphatics	ND	0.15
Surr: Chloro-octadecane	120.4	40-140

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHA\_121024B-4771499 Units: mg/L  
 Analysis Date: 10/24/2012 18:19 Analyst: E\_G  
 Preparation Date: 10/22/2012 14:51 Prep By: DW Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C10-C12 Aliphatics	0.500	0.385	77.1	0.500	0.368	73.5	4.7	25	40	140
C12-C16 Aliphatics	1.00	0.740	74.0	1.00	0.708	70.8	4.5	25	40	140
C16-C35 Aliphatics	4.50	3.21	71.3	4.50	2.94	65.3	8.8	25	40	140
Surr: Chloro-octadecane	0.400	0.357	89.2	0.400	0.334	83.4	6.7	30	40	140

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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11/2/2012 8:35:18 AM



ACCUTEST GULF COAST  
 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Extractable Petroleum Hydrocarbons- RECAP  
 Method: MA\_VPH\_EPH

WorkOrder: L0021467  
 Lab Batch ID: 116009

Method Blank

Samples in Analytical Batch:

RunID: TPHA\_121024A-4771266 Units: mg/L  
 Analysis Date: 10/24/2012 17:52 Analyst: E\_G  
 Preparation Date: 10/22/2012 14:51 Prep By: DW Method: SW3511

Lab Sample ID: L0021467-01A  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
C10-C12 Aromatics	ND	0.10
C12-C16 Aromatics	0.12	0.10
C16-C21 Aromatics	ND	0.10
C21-C35 Aromatics	ND	0.10
Surr: 2-Fluorobiphenyl	105.5	40-140
Surr: o-Terphenyl	139.9	40-140

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHA\_121024A-4771267 Units: mg/L  
 Analysis Date: 10/24/2012 18:19 Analyst: E\_G  
 Preparation Date: 10/22/2012 14:51 Prep By: DW Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C10-C12 Aromatics	0.500	0.416	83.3	0.500	0.422	84.5	1.5	25	40	140
C12-C16 Aromatics	1.50	1.43	95.4	1.50	1.48	98.5	3.1	25	40	140
C16-C21 Aromatics	2.50	3.02	121	2.50	3.27	131	7.9	25	40	140
C21-C35 Aromatics	4.00	3.77	94.2	4.00	4.42	110	16.0	25	40	140
Surr: 2-Fluorobiphenyl	2.00	2.35	117	2.00	2.32	116	1.0	30	40	140
Surr: o-Terphenyl	0.400	0.486	122	0.400	0.516	129	6.0	30	40	140

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 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

MI - Matrix Interference  
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 \* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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11/2/2012 8:35:18 AM



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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: RECAP Diesel Range Organics by Method 8015C  
 Method: SW8015C

WorkOrder: L0021467  
 Lab Batch ID: 116085

Method Blank

Samples in Analytical Batch:

RunID: TPHC\_121029A-4775930 Units: mg/L  
 Analysis Date: 10/29/2012 18:22 Analyst: E\_G  
 Preparation Date: 10/24/2012 15:59 Prep By: DGP Method: SW3511

Lab Sample ID: L0021467-01D  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.15
Surr: o-Terphenyl	105.5	47-125

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC\_121029A-4775931 Units: mg/L  
 Analysis Date: 10/29/2012 18:48 Analyst: E\_G  
 Preparation Date: 10/24/2012 15:59 Prep By: DGP Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	6.00	5.19	86.5	6.00	5.06	84.3	2.6	26	21	140
Surr: o-Terphenyl	0.100	0.109	109	0.100	0.103	103	5.4	30	47	125

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
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 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
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MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
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11/2/2012 8:35:18 AM



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 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: RECAP Oil Range Organics  
 Method: SW8015C

WorkOrder: L0021467  
 Lab Batch ID: 116086

Method Blank

Samples in Analytical Batch:

RunID: TPHC\_121029B-4775960 Units: mg/L  
 Analysis Date: 10/29/2012 18:22 Analyst: E\_G  
 Preparation Date: 10/24/2012 16:00 Prep By: DGP Method: SW3511

Lab Sample ID: L0021467-01D  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Oil Range Organics (C28-C35)	ND	0.15
Surr: o-Terphenyl	105.5	47-125

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC\_121029B-4775961 Units: mg/L  
 Analysis Date: 10/29/2012 19:39 Analyst: E\_G  
 Preparation Date: 10/24/2012 16:00 Prep By: DGP Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Oil Range Organics (C28-C35)	2.79	2.36	84.7	2.79	2.34	84.0	0.8	29	40	149
Surr: o-Terphenyl	0.100	0.0977	97.7	0.100	0.0918	91.8	6.2	30	47	125

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
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11/2/2012 8:35:18 AM

**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** RECAP Gasoline Range Organics  
**Method:** SW8015C

**WorkOrder:** L0021467  
**Lab Batch ID:** R297233

**Method Blank**

RunID: HPOO\_121023B-4768692 Units: mg/L  
Analysis Date: 10/23/2012 17:27 Analyst: JHP

**Samples in Analytical Batch:**

**Lab Sample ID** L0021467-01C  
**Client Sample ID** 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	94.8	70-135
Surr: 4-Bromofluorobenzene	91.5	89-126

**Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)**

RunID: HPOO\_121023B-4768690 Units: mg/L  
Analysis Date: 10/23/2012 16:21 Analyst: JHP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	5.00	5.04	101	5.00	5.08	102	0.8	7	77	118
Surr: 1,4-Difluorobenzene	30.0	31.1	104	30.0	29.3	97.6	6.1	30	70	135
Surr: 4-Bromofluorobenzene	30.0	32.5	108	30.0	30.9	103	5.0	30	89	126

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: L0021446-05  
RunID: HPOO\_121023B-4768698 Units: mg/L  
Analysis Date: 10/23/2012 20:45 Analyst: JHP

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics (C6-C10)	137	500	616	95.8	500	623	97.2	1.15	7	77	118
Surr: 1,4-Difluorobenzene	ND	3000	3040	101	3000	3030	101	0.275	30	70	135
Surr: 4-Bromofluorobenzene	ND	3000	3280	109	3000	2910	96.9	12.1	30	89	126

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
B - Analyte Detected In The Associated Method Blank  
J - Estimated Value Between MDL And PQL  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

MI - Matrix Interference  
D - Recovery Unreportable due to Dilution  
\* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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SCOTT, LA 70583  
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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: RECAP Gasoline Range Organics  
Method: SW8015C

WorkOrder: L0021467  
Lab Batch ID: R297233

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**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
B - Analyte Detected In The Associated Method Blank  
J - Estimated Value Between MDL And PQL  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: RECAP Volatile Petroleum Hydrocarbons by MA-DEP  
 Method: MA\_VPH\_EPH

WorkOrder: L0021467  
 Lab Batch ID: R297311

Method Blank

Samples in Analytical Batch:

RunID: HPEE\_121024E-4770579 Units: mg/L  
 Analysis Date: 10/24/2012 21:27 Analyst: RVS

Lab Sample ID: L0021467-01B  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
C8-C10 Aromatics	ND	0.060
Surr: 2,5-Dibromotoluene	106.7	70-130

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPEE\_121024E-4770577 Units: mg/L  
 Analysis Date: 10/24/2012 20:25 Analyst: RVS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C8-C10 Aromatics	0.250	0.190	75.8	0.250	0.266	106	33.4	50	70	130
Surr: 2,5-Dibromotoluene	200	215	108	200	216	108	0.4	30	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0021283-10  
 RunID: HPEE\_121024E-4770594 Units: mg/L  
 Analysis Date: 10/25/2012 5:15 Analyst: RVS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C8-C10 Aromatics	ND	1.25	0.977	78.2	1.25	1.56	124	45.7	50	70	130
Surr: 2,5-Dibromotoluene	ND	1000	1040	104	1000	1140	114	9.88	30	70	130

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** RECAP Volatile Petroleum Hydrocarbons by MA-DEP  
**Method:** MA\_VPH\_EPH

**WorkOrder:** L0021467  
**Lab Batch ID:** R297312

**Method Blank**

**Samples in Analytical Batch:**

RunID: HPEE\_121024F-4770607 Units: mg/L  
Analysis Date: 10/24/2012 21:27 Analyst: RVS

**Lab Sample ID** L0021467-01B  
**Client Sample ID** 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
C6-C8 Aliphatics	ND	0.030
C8-C10 Aliphatics	ND	0.060
Surr: 2,5-Dibromotoluene	110.4	70-130

**Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)**

RunID: HPEE\_121024F-4770605 Units: mg/L  
Analysis Date: 10/24/2012 20:25 Analyst: RVS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C6-C8 Aliphatics	0.150	0.130	86.9	0.150	0.132	87.8	1.0	50	70	130
C8-C10 Aliphatics	0.250	0.228	91.2	0.250	0.239	95.5	4.5	50	70	130
Surr: 2,5-Dibromotoluene	200	221	111	200	223	112	1.0	30	70	130

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: L0021283-10  
RunID: HPEE\_121024F-4770622 Units: mg/L  
Analysis Date: 10/25/2012 5:15 Analyst: RVS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C6-C8 Aliphatics	ND	0.75	0.642	83.1	0.75	0.667	86.5	3.93	50	70	130
C8-C10 Aliphatics	ND	1.25	1.20	96.1	1.25	1.24	99.4	3.39	50	70	130
Surr: 2,5-Dibromotoluene	ND	1000	1080	108	1000	1190	119	9.62	30	70	130

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
B - Analyte Detected In The Associated Method Blank  
J - Estimated Value Between MDL And PQL  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

MI - Matrix Interference  
D - Recovery Unreportable due to Dilution  
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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: RECAP Volatile Petroleum Hydrocarbons by MA-DEP  
Method: MA\_VPH\_EPH

WorkOrder: L0021467  
Lab Batch ID: R297312

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**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
B - Analyte Detected In The Associated Method Blank  
J - Estimated Value Between MDL And PQL  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

MI - Matrix Interference  
D - Recovery Unreportable due to Dilution  
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Version 2.1 - Modified February 11, 2011

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Metals by Method 6020 (ICP/MS), Total  
 Method: SW6020

WorkOrder: L0021467  
 Lab Batch ID: 116019-I

Method Blank

Samples in Analytical Batch:

RunID: ICPMS\_121026A-4772982 Units: mg/L  
 Analysis Date: 10/26/2012 11:43 Analyst: RJD

Lab Sample ID: L0021467-01E  
 Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Aluminum	ND	0.05
Antimony	ND	0.005
Arsenic	ND	0.004
Barium	ND	0.005
Beryllium	ND	0.002
Cadmium	ND	0.002
Calcium	ND	0.2
Chromium	ND	0.004
Cobalt	ND	0.002
Copper	ND	0.002
Iron	ND	0.1
Lead	ND	0.001
Magnesium	ND	0.05
Manganese	ND	0.002
Nickel	ND	0.002
Potassium	ND	0.075
Selenium	ND	0.005
Silver	ND	0.001
Sodium	ND	0.1
Thallium	ND	0.002
Vanadium	ND	0.01
Zinc	ND	0.006

Laboratory Control Sample (LCS)

RunID: ICPMS\_121026A-4772992 Units: mg/L  
 Analysis Date: 10/26/2012 13:56 Analyst: RJD  
 Preparation Date: 10/22/2012 17:00 Prep By: LAB Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Aluminum	5.100	5.479	107.4	80	120
Antimony	0.1000	0.09581	95.81	80	120
Arsenic	0.1000	0.1004	100.4	80	120
Barium	0.1000	0.09763	97.63	80	120

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Metals by Method 6020 (ICP/MS), Total  
 Method: SW6020

WorkOrder: L0021467  
 Lab Batch ID: 116019-I

Laboratory Control Sample (LCS)

RunID: ICPMS\_121026A-4772992 Units: mg/L  
 Analysis Date: 10/26/2012 13:56 Analyst: RJD  
 Preparation Date: 10/22/2012 17:00 Prep By: LAB Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Beryllium	0.1000	0.1008	100.8	80	120
Cadmium	0.1000	0.09381	93.81	80	120
Calcium	5.000	5.003	100.1	80	120
Chromium	0.1000	0.09204	92.04	80	120
Cobalt	0.1000	0.09889	98.89	80	120
Copper	0.1000	0.09780	97.80	80	120
Iron	5.000	5.205	104.1	80	120
Lead	0.1000	0.09536	95.36	80	120
Magnesium	5.000	5.635	112.7	80	120
Manganese	0.1000	0.09612	96.12	80	120
Nickel	0.1000	0.09699	96.99	80	120
Potassium	5.000	5.364	107.3	80	120
Selenium	0.5000	0.5000	100.0	80	120
Silver	0.1000	0.09161	91.61	80	120
Sodium	5.000	5.757	115.1	80	120
Thallium	0.1000	0.09554	95.54	80	120
Vanadium	0.1000	0.09276	92.76	80	120
Zinc	0.1000	0.09741	97.41	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0021467-01  
 RunID: ICPMS\_121026A-4772985 Units: mg/L  
 Analysis Date: 10/26/2012 11:54 Analyst: RJD  
 Preparation Date: 10/22/2012 17:00 Prep By: LAB Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit

**Qualifiers:** ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated Value Between MDL And PQL \* - Recovery Outside Advisable QC Limits  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

L0021467 Page 17

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

11/2/2012 8:35:19 AM

Version 2.1 - Modified February 11, 2011

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Metals by Method 6020 (ICP/MS), Total  
 Method: SW6020

WorkOrder: L0021467  
 Lab Batch ID: 116019-I

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0021467-01  
 RunID: ICPMS\_121026A-4772985 Units: mg/L  
 Analysis Date: 10/26/2012 11:54 Analyst: RJD  
 Preparation Date: 10/22/2012 17:00 Prep By: LAB Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Aluminum	ND	5.1	4.890	95.88	5.1	4.802	94.16	1.810	20	75	125
Antimony	ND	0.1	0.09782	95.46	0.1	0.09930	96.94	1.503	20	75	125
Arsenic	0.05466	0.1	0.1506	95.91	0.1	0.1501	95.43	0.3170	20	75	125
Barium	2.760	0.1	2.783	N/C	0.1	2.841	N/C	N/C	20	75	125
Beryllium	ND	0.1	0.09809	93.48	0.1	0.09767	93.06	0.4267	20	75	125
Cadmium	ND	0.1	0.09491	91.60	0.1	0.09549	92.18	0.6113	20	75	125
Calcium	99.87	5	101.4	N/C	5	104.0	N/C	N/C	20	75	125
Chromium	ND	0.1	0.09739	95.16	0.1	0.09787	95.64	0.4960	20	75	125
Cobalt	ND	0.1	0.09934	96.75	0.1	0.09693	94.34	2.454	20	75	125
Copper	ND	0.1	0.09823	92.61	0.1	0.09899	93.36	0.7641	20	75	125
Iron	11.77	5	16.73	99.14	5	16.49	94.39	1.430	20	75	125
Lead	ND	0.1	0.09274	92.74	0.1	0.09524	95.24	2.656	20	75	125
Magnesium	33.60	5	36.49	N/C	5	37.87	N/C	N/C	20	75	125
Manganese	0.2670	0.1	0.3662	99.27	0.1	0.3611	94.19	1.397	20	75	125
Nickel	ND	0.1	0.09920	94.97	0.1	0.09702	92.78	2.228	20	75	125
Potassium	9.491	5	13.73	84.69	5	14.59	101.9	6.087	20	75	125
Selenium	ND	0.5	0.4742	92.01	0.5	0.4849	94.14	2.222	20	75	125
Silver	ND	0.1	0.09364	93.27	0.1	0.09338	93.01	0.2765	20	75	125
Sodium	811.4	5	784.1	N/C	5	749.6	N/C	N/C	20	75	125
Thallium	ND	0.1	0.09272	92.72	0.1	0.09473	94.73	2.145	20	75	125
Vanadium	ND	0.1	0.09733	97.33	0.1	0.09626	96.26	1.103	20	75	125
Zinc	ND	0.1	0.09331	86.51	0.1	0.09293	86.13	0.4067	20	75	125

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

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 D - Recovery Unreportable due to Dilution  
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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** Mercury, Total by Cold Vapor  
**Method:** SW7470A

**WorkOrder:** L0021467  
**Lab Batch ID:** 116039

**Method Blank**

**Samples in Analytical Batch:**

RunID: FIMS-400\_121023B-4769915 Units: mg/L  
 Analysis Date: 10/23/2012 10:38 Analyst: SA  
 Preparation Date: 10/23/2012 13:00 Prep By: SA Method: SW7470A

**Lab Sample ID** L0021467-01E  
**Client Sample ID** 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Mercury	ND	0.0002

**Laboratory Control Sample (LCS)**

RunID: FIMS-400\_121023B-476991 Units: mg/L  
 Analysis Date: 10/23/2012 10:38 Analyst: SA  
 Preparation Date: 10/23/2012 13:00 Prep By: SA Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.01000	0.01021	102.1	80	120

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: L0021368-01  
 RunID: FIMS-400\_121023B-476991 Units: mg/L  
 Analysis Date: 10/23/2012 10:38 Analyst: SA  
 Preparation Date: 10/23/2012 13:00 Prep By: SA Method: SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.01	0.01041	103.6	0.01	0.01042	103.7	0.09602	20	75	125

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** Total Dissolved Solids by SM2540 C  
**Method:** M2540 C

**WorkOrder:** L0021467  
**Lab Batch ID:** R297169

<b>Method Blank</b>		<b>Samples in Analytical Batch:</b>	
RunID: WET_121022Q-4767490	Units: mg/L	<b>Lab Sample ID</b>	<b>Client Sample ID</b>
Analysis Date: 10/22/2012 15:50	Analyst: SPM	L0021467-01F	007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,filterable)	ND	10

**Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)**

RunID: WET\_121022Q-4767491 Units: mg/L  
 Analysis Date: 10/22/2012 15:50 Analyst: SPM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,filterable)	200	197	98.3	200	193	96.7	1.7	20	90	110

**Sample Duplicate**

Original Sample: L0020492-19  
 RunID: WET\_121022Q-4767493 Units: mg/L  
 Analysis Date: 10/22/2012 15:50 Analyst: SPM

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,filterable)	1600	1720	5.6	20

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

Analysis: Specific Conductance @ 25 C - SM2510B  
 Method: M2510 B

WorkOrder: L0021467  
 Lab Batch ID: R297181

**Samples in Analytical Batch:**

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
L0021467-01F	007-095-101812 OXY3 WATE

**Laboratory Control Sample (LCS)**

RunID: WET\_121022R-4767697 Units: umhos/cm  
 Analysis Date: 10/22/2012 12:00 Analyst: SM

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Specific Conductance	1409	1396	99.08	90	110

**Sample Duplicate**

Original Sample: L0021048-07  
 RunID: WET\_121022R-4767694 Units: umhos/cm  
 Analysis Date: 10/22/2012 12:00 Analyst: SM

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Specific Conductance	1680	1679	0.179	20

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** Chloride by SM4500  
**Method:** M4500-CL C

**WorkOrder:** L0021467  
**Lab Batch ID:** R297442

**Method Blank**

RunID: WET\_121025K-4773367 Units: mg/L  
Analysis Date: 10/25/2012 14:00 Analyst: JMR  
Preparation Date: 10/25/2012 14:00 Prep By: Method:

**Samples in Analytical Batch:**

**Lab Sample ID** L0021467-01F  
**Client Sample ID** 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Chloride	ND	5.0

**Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)**

RunID: WET\_121025K-4773368 Units: mg/L  
Analysis Date: 10/25/2012 14:00 Analyst: JMR  
Preparation Date: 10/25/2012 14:00 Prep By: Method:

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chloride	150.0	139.6	93.05	150.0	141.1	94.10	1.1	10	90	110

**Sample Duplicate**

Original Sample: L0021336-01  
RunID: WET\_121025K-4773370 Units: mg/L  
Analysis Date: 10/25/2012 14:00 Analyst: JMR  
Preparation Date: 10/25/2012 14:00 Prep By: Method:

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Chloride	ND	ND	0	20

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: L0021336-01  
RunID: WET\_121025K-4773372 Units: mg/L  
Analysis Date: 10/25/2012 14:00 Analyst: JMR  
Preparation Date: 10/25/2012 14:00 Prep By: Method:

**Qualifiers:** ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution  
J - Estimated Value Between MDL And PQL \* - Recovery Outside Advisable QC Limits  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



ACCUTEST GULF COAST  
 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Chloride by SM4500  
 Method: M4500-CL C

WorkOrder: L0021467  
 Lab Batch ID: R297442

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	150	141.1	94.10	150	139.6	93.05	1.117	20	80	120

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte Detected In The Associated Method Blank  
 J - Estimated Value Between MDL And PQL  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
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MI - Matrix Interference  
 D - Recovery Unreportable due to Dilution  
 \* - Recovery Outside Advisable QC Limits

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L0021467 Page 23

11/2/2012 8:35:20 AM

Version 2.1 - Modified February 11, 2011



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**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** Alkalinity, Carbonate (as CaCO3)  
**Method:** M2320 B

**WorkOrder:** L0021467  
**Lab Batch ID:** R297725

Method Blank

Samples in Analytical Batch:

RunID: WET\_121031P-4779252 Units: mg/L CaCO3  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Lab Sample ID      Client Sample ID  
 L0021467-01F      007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Alkalinity, Carbonate (As CaCO3)	ND	5.0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET\_121031P-4779253 Units: mg/L CaCO3  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Alkalinity, Carbonate (As CaCO3)	200.0	188.0	94.00	200.0	188.0	94.00	0.0	20	90	110

Sample Duplicate

Original Sample: L0021467-01  
 RunID: WET\_121031P-4779255 Units: mg/L CaCO3  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate (As CaCO3)	ND	ND	0	20

**Qualifiers:** ND/U - Not Detected at the Reporting Limit      MI - Matrix Interference  
 B - Analyte Detected In The Associated Method Blank      D - Recovery Unreportable due to Dilution  
 J - Estimated Value Between MDL And PQL      \* - Recovery Outside Advisable QC Limits  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

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L0021467 Page 24

11/2/2012 8:35:20 AM



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 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE

Analysis: Alkalinity, Bicarbonate (as CaCO<sub>3</sub>)  
 Method: M2320 B

WorkOrder: L0021467  
 Lab Batch ID: R297726

Method Blank

Samples in Analytical Batch:

RunID: WET\_121031Q-4779261 Units: mg/L CaCO<sub>3</sub>  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Lab Sample ID: L0021467-01F Client Sample ID: 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	ND	5.0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET\_121031Q-4779262 Units: mg/L CaCO<sub>3</sub>  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	200.0	188.0	94.00	200.0	188.0	94.00	0.0	20	90	110

Sample Duplicate

Original Sample: L0021467-01  
 RunID: WET\_121031Q-4779264 Units: mg/L CaCO<sub>3</sub>  
 Analysis Date: 10/31/2012 18:32 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	452	460	1.75	20

**Qualifiers:** ND/U - Not Detected at the Reporting Limit MI - Matrix Interference  
 B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution  
 J - Estimated Value Between MDL And PQL \* - Recovery Outside Advisable QC Limits  
 E - Estimated Value exceeds calibration curve  
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
 TNTC - Too numerous to count

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11/2/2012 8:35:20 AM

Version 2.1 - Modified February 11, 2011

**Quality Control Report**

**SHAW ENVIRONMENTAL & INFRASTRUCTURE**

147497 LDNR- BAYOU CORNE

**Analysis:** Anions by IC using EPA 300.0  
**Method:** E300.0

**WorkOrder:** L0021467  
**Lab Batch ID:** R297748

**Method Blank**

RunID: IC\_121031A-4779706 Units: mg/L  
Analysis Date: 10/31/2012 23:50 Analyst: JMR

**Samples in Analytical Batch:**

**Lab Sample ID** L0021467-01F  
**Client Sample ID** 007-095-101812 OXY3 WATE

Analyte	Result	Rep Limit
Bromide	ND	0.25
Nitrate (as N)	ND	0.050
Sulfate	ND	0.25

**Laboratory Control Sample (LCS)**

RunID: IC\_121031A-4779707 Units: mg/L  
Analysis Date: 11/01/2012 0:02 Analyst: JMR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Bromide	12.50	12.05	96.37	90	110
Nitrate (as N)	2.500	2.571	102.8	90	110
Sulfate	12.50	12.20	97.58	90	110

**Matrix Spike (MS) / Matrix Spike Duplicate (MSD)**

Sample Spiked: L0021311-14  
RunID: IC\_121031A-4779714 Units: mg/L  
Analysis Date: 11/01/2012 1:32 Analyst: JMR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Bromide	ND	200	206.3	103.2	200	208.0	104.0	0.8119	15	80	120
Nitrate (as N)	2.392	20	20.51	90.61	20	20.46	90.36	0.2343	15	80	120
Sulfate	30.38	200	221.5	95.54	200	214.5	92.08	3.178	15	80	120

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
B - Analyte Detected In The Associated Method Blank  
J - Estimated Value Between MDL And PQL  
E - Estimated Value exceeds calibration curve  
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.  
TNTC - Too numerous to count

MI - Matrix Interference  
D - Recovery Unreportable due to Dilution  
\* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist  
And  
Chain of Custody*



**ACCUTEST GULF COAST**  
 500 AMBASSADOR CAFFERY PARKWAY  
 SCOTT, LA 70583  
 (337) 237-4775

**Sample Receipt Checklist**

Workorder:	<b>L0021467</b>	Received By:	<b>JF</b>
Date and Time Received:	<b>10/20/2012 9:45:00 AM</b>	Carrier name:	<b>FedEx-Pri Saturday Del</b>
Temperature:	<b>°C</b>	Chilled by:	<b>Water Ice</b>

- |   |   |                             |   |
|---|---|-----------------------------|---|
| <b>1. Shipping container/cooler in good condition?</b>              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| <b>2. Custody seals intact on shipping container/cooler?</b>        | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| <b>3. Custody seals intact on sample bottles?</b>                   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| <b>4. Chain of custody present?</b>                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>5. Chain of custody signed when relinquished and received?</b>   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>6. Chain of custody agrees with sample labels?</b>               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>7. Samples in proper container/bottle?</b>                       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>8. Sample containers intact?</b>                                 | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>9. Sufficient sample volume for indicated test?</b>              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>10. All samples received within holding time?</b>                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>11. Container/Temp Blank temperature in compliance?</b>          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| <b>12. Water - VOA vials have zero headspace?</b>                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | VOA Vials Not Present <input type="checkbox"/>  |
| <b>13. Water - Preservation checked upon receipt (except VOA*)?</b> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/>         |

\*VOA Preservation Checked After Sample Analysis

Accutest Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD\*

Reference Document No. 596304 Page 1 of 1

L 21467



Project Name/No. LDNE/Bayou Canine
Sample Team Members F. Brinard
Profit Center No. Baton Rouge
Project Manager Deborah Cudde
Purchase Order No. + bcd

Samples Shipment Date 10/19/12
Lab Destination Accident
Lab Contact Cristina Tribbey
Project Contact /Phone LISA PUSE/225-989-7335
Carrier / Waybill No. FedEx

Bill To: Shaw E&I
471 Essen Lane
Baton Rouge LA 70809
Attn Lisa Puse
Report To: Same as bill to

Required Report Date 11 Standard

Attn Hugh Adams

ONE CONTAINER PER LINE

Table with columns: Sample Number, Date/Time Collected, Sample Description/Type, Container Type, Sample Volume, Pre-Servative, Requested Testing Program, Condition on Receipt, Disposal Record No.

Special Instructions:

Possible Hazard Identification: No-hazard, Flammable, Skin Irritant, Poison B, Unknown
Turnaround Time Required: Normal, Rush
QC Level: I, II

1. Relinquished by: Ferrell Date: 10/18/12
2. Relinquished by: Calmille Date: 10/18/12
3. Relinquished by: Jivan P... Date: 10/19/12
Comments: Oxy 3 water well = 007-095 Del-Cy 10-20-12 9:45

No C/S on Colcan (D) Phase 3 (7) RS-702 (14)
MCA 9159

FedEx Retrieval Copy

0200

Form ID No.

8660 5732 1148

US Airbill

Sender's FedEx Account Number

8660 5732 1148

Sender's Name

JOHN RUTZ

Company

SHAW F&I

Address

1121 E. 1st Ave

City

Atlanta

State

GA

ZIP

30309

2 Your Internal Billing Reference

Atlanta

3 To Recipient's Name

ATM FAMILY MANAGEMENT

Company

ATM FAMILY MANAGEMENT

Address

107 COMMISSEY BLVD

City

Atlanta

State

GA

ZIP

30309

Address

1121 E. 1st Ave

City

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30309

- 1. Lab Contract
- 2. Lab Contract
- 3. Lab Contract
- 4. Lab Contract
- 5. Lab Contract
- 6. Lab Contract
- 7. Lab Contract
- 8. Lab Contract
- 9. Lab Contract
- 10. Lab Contract

INSTRICT

Project Manager: Record the name of the project

Team Members: List the names of all the members

Purchase Order Number: Record the project manager's name

Lab Destination: Non-Shaw personnel should indicate the correct billing

Lab Contract: Non-Shaw personnel should indicate the correct billing

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4a Express Package Service

FedEx Priority Overnight

FedEx Standard Overnight

FedEx 2Day

FedEx 2Day Freight

FedEx 1Day Freight

FedEx 2Day Freight

FedEx 3Day Freight

FedEx Pak

FedEx Envelope

Special Handling

Hold Weekday

Hold Saturday

Does this shipment contain dangerous goods?

Payment Bill to:

Sender

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

Residential Delivery Signature Options

No Signature Required

Direct Signature

Indirect Signature

Signature Required

Packages up to 150 lbs.

FedEx First Overnight

FedEx Standard Overnight

FedEx Express Saver

FedEx 2Day Freight

FedEx 1Day Freight

FedEx 2Day Freight

FedEx 3Day Freight

FedEx Pak

FedEx Envelope

Special Handling

Hold Weekday

Hold Saturday

Does this shipment contain dangerous goods?

Payment Bill to:

Sender

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

Residential Delivery Signature Options

No Signature Required

Direct Signature

Indirect Signature

Signature Required

Sender's FedEx Account Number

8660 5732 1148

Sender's Name

JOHN RUTZ

Company

SHAW F&I

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8660 5732 1148

520