Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

August 21, 2012

Sandy Wackett
DEQ LABORATORY
602 N. Fifth St.
Baton Rouge, LA 70802

RE: Project 20142694
Project ID: BAYOU CORNE

Dear Sandy Wackett:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerly,

Cindy Olavesen
cindy.olavesen@pacelabs.com

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Laboratory Certifications

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20142694

Client: DEQ LABORATORY

Project ID: BAYOU CORNE

Washington Department of Ecology C2078

Oregon Environmental Laboratory Accreditation - LA200001

U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119

Pennsylviania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-09-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Oklahoma Department of Environmental Quality - 2010-139

Illinois Environmental Protection Agency - 0025721

California Env. Lab Accreditation Program Branch - 11277CA

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

REPORT OF LABORATORY ANALYSIS

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Sample Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20142694

Client: DEQ LABORATORY

Project ID: BAYOU CORNE

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
327-1200810-13	201012251	Water	10-Aug-12 11:30	10-Aug-12 17:15
327-1200810-TB	201012252	Water	10-Aug-12 00:00	10-Aug-12 17:15
327-1200810-14	201012253	Water	10-Aug-12 10:50	10-Aug-12 17:15

Pace Analytical Services, Inc.
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Project: 20142694

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times:

All holding times were met.

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

All surrogate recoveries were within QC limits.

Regulatory, Permit or Client Specified Limits:

24 results were found that exceeded regulatory, permit or client specified limits.

QC Cross Reference

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20142694

Analytical Method	Batch	Sample used for QC
EPA 8260	190210	Project sample 327-1200810-14
SM 2540C	190240	Client sample 048-120810-10 from project 20142691
SM 4500-Cl E	190235	Client sample 048-120810-10 from project 20142691
ASTM D516-90	190466	Client sample 048-120810-10 from project 20142691

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from a different client was used.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: EPA 8270
GCMS SVOAs Dual pH
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
62-53-3	Aniline	1	ND		10.0	12.0	15-Aug-12 11:15	JAM
92-52-4	Biphenyl (Diphenyl)	1	ND		10.0	30.0	15-Aug-12 11:15	JAM
85-68-7	Butylbenzylphthalate	1	ND		10.0	730.	15-Aug-12 11:15	JAM
88-85-7	Dinoseb	1	ND		10.0	7.00	15-Aug-12 11:15	JAM
106-47-8	3&4-Chloroaniline	1	ND		10.0	20.0	15-Aug-12 11:15	JAM
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	5.70	15-Aug-12 11:15	JAM
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0	5.70	15-Aug-12 11:15	JAM
91-58-7	2-Chloronaphthalene	1	ND		10.0	49.0	15-Aug-12 11:15	JAM
95-57-8	2-Chlorophenol	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
132-64-9	Dibenzofuran	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
95-50-1	1,2-Dichlorobenzene	1	ND		10.0	600.	15-Aug-12 11:15	JAM
541-73-1	1,3-Dichlorobenzene	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
106-46-7	1,4-Dichlorobenzene	1	ND		10.0	75.0	15-Aug-12 11:15	JAM
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	20.0	15-Aug-12 11:15	JAM
120-83-2	2,4-Dichlorophenol	1	ND		10.0	11.0	15-Aug-12 11:15	JAM
84-66-2	Diethylphthalate	1	ND		10.0	2900	15-Aug-12 11:15	JAM
105-67-9	2,4-Dimethylphenol	1	ND		10.0	73.0	15-Aug-12 11:15	JAM
131-11-3	Dimethylphthalate	1	ND		10.0	37000	15-Aug-12 11:15	JAM
99-65-0	1,3-Dinitrobenzene	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
51-28-5	2,4-Dinitrophenol	1	ND		10.0	50.0	15-Aug-12 11:15	JAM
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
117-84-0	Di-n-octylphthalate	1	ND		10.0	20.0	15-Aug-12 11:15	JAM
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	6.00	15-Aug-12 11:15	JAM
118-74-1	Hexachlorobenzene	1	ND		10.0	1.00	15-Aug-12 11:15	JAM
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0	0.730	15-Aug-12 11:15	JAM
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	50.0	15-Aug-12 11:15	JAM
67-72-1	Hexachloroethane	1	ND		10.0	10.0	15-Aug-12 11:15	JAM
78-59-1	Isophorone	1	ND		10.0	70.0	15-Aug-12 11:15	JAM
88-74-4	2-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:15	JAM
99-09-2	3-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:15	JAM
100-01-6	4-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:15	JAM
98-95-3	Nitrobenzene	1	ND		10.0	1.90	15-Aug-12 11:15	JAM
100-02-7	4-Nitrophenol	1	ND		10.0	50.0	15-Aug-12 11:15	JAM

Protocol 8/21/2012 11:39:21

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: EPA 8270
GCMS SVOAs Dual pH
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	10.0	15-Aug-12 11:15 JAM
86-30-6	N-Nitrosodiphenylamine	1	ND		10.0	14.0	15-Aug-12 11:15 JAM
87-86-5	Pentachlorophenol	1	ND		10.0	1.00	15-Aug-12 11:15 JAM
108-95-2	Phenol	1	ND		10.0	180.	15-Aug-12 11:15 JAM
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	1.10	15-Aug-12 11:15 JAM
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	110.	15-Aug-12 11:15 JAM
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0	370.	15-Aug-12 11:15 JAM
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	10.0	15-Aug-12 11:15 JAM

42 compound(s) reported

Protocol 8/21/2012 11:39:21

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190216
Method: EPA 8270
GCMS SVOAs SIM Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
83-32-9	Acenaphthene	1	ND		0.000100	0.0370	13-Aug-12 21:35 JAM
208-96-8	Acenaphthylene	1	ND		0.000100	0.100	13-Aug-12 21:35 JAM
120-12-7	Anthracene	1	ND		0.000100	0.0430	13-Aug-12 21:35 JAM
56-55-3	Benzo(a)anthracene	1	ND		0.000100	0.00780	13-Aug-12 21:35 JAM
205-99-2	Benzo(b)fluoranthene	1	ND		0.000100	0.00480	13-Aug-12 21:35 JAM
207-08-9	Benzo(k)fluoranthene	1	ND		0.000100	0.00250	13-Aug-12 21:35 JAM
50-32-8	Benzo(a)pyrene	1	ND		0.000100	0.000200	13-Aug-12 21:35 JAM
218-01-9	Chrysene	1	ND		0.000100	0.00160	13-Aug-12 21:35 JAM
53-70-3	Dibenz(a,h)anthracene	1	ND		0.000100	0.00250	13-Aug-12 21:35 JAM
206-44-0	Fluoranthene	1	ND		0.000100	0.150	13-Aug-12 21:35 JAM
86-73-7	Fluorene	1	ND		0.000100	0.0240	13-Aug-12 21:35 JAM
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		0.000100	0.00370	13-Aug-12 21:35 JAM
91-57-6	2-Methylnaphthalene	1	ND		0.000100	0.000620	13-Aug-12 21:35 JAM
91-20-3	Naphthalene	1	ND		0.000100	0.0100	13-Aug-12 21:35 JAM
85-01-8	Phenanthrene	1	ND		0.000100	0.180	13-Aug-12 21:35 JAM
129-00-0	Pyrene	1	ND		0.000100	0.0180	13-Aug-12 21:35 JAM

16 compound(s) reported

Protocol 8/21/2012 11:39:21

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
67-64-1	Acetone	1	ND		0.0100	0.100	13-Aug-12 14:04	MHM
71-43-2	Benzene	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
75-27-4	Bromodichloromethane	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
75-25-2	Bromoform	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
74-83-9	Bromomethane	1	ND		0.00500	0.0100	13-Aug-12 14:04	MHM
78-93-3	2-Butanone (MEK)	1	ND		0.0100	0.190	13-Aug-12 14:04	MHM
75-15-0	Carbon disulfide	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
56-23-5	Carbon tetrachloride	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
108-90-7	Chlorobenzene	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
75-00-3	Chloroethane	1	ND		0.00500	0.0100	13-Aug-12 14:04	MHM
67-66-3	Chloroform	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
74-87-3	Chloromethane	1	ND		0.00500	0.0100	13-Aug-12 14:04	MHM
124-48-1	Dibromochloromethane	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		0.00500	0.000200	13-Aug-12 14:04	MHM
75-34-3	1,1-Dichloroethane	1	ND		0.00500	0.0810	13-Aug-12 14:04	MHM
107-06-2	1,2-Dichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
75-35-4	1,1-Dichloroethene	1	ND		0.00500	0.00700	13-Aug-12 14:04	MHM
156-59-2	cis-1,2-Dichloroethene	1	ND		0.00500	0.0700	13-Aug-12 14:04	MHM
156-60-5	trans-1,2-Dichloroethene	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
78-87-5	1,2-Dichloropropane	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
100-41-4	Ethylbenzene	1	ND		0.00500	0.700	13-Aug-12 14:04	MHM
1634-04-4	Methyl-tert-butyl ether	1	ND		0.00500	0.0200	13-Aug-12 14:04	MHM
75-09-2	Methylene chloride	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.0100	0.200	13-Aug-12 14:04	MHM
78-83-1	Isobutanol	1	ND		0.250	1.10	13-Aug-12 14:04	MHM
100-42-5	Styrene	1	ND		0.00500	0.100	13-Aug-12 14:04	MHM
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.00500	0.000500	13-Aug-12 14:04	MHM
127-18-4	Tetrachloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:04	MHM
108-88-3	Toluene	1	ND		0.00500	1.00	13-Aug-12 14:04	MHM
120-82-1	1,2,4-Trichlorobenzene	1	ND		0.00500	0.0700	13-Aug-12 14:04	MHM
71-55-6	1,1,1-Trichloroethane	1	ND		0.00500	0.200	13-Aug-12 14:04	MHM

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
79-00-5	1,1,2-Trichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:04 MHM
79-01-6	Trichloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:04 MHM
75-69-4	Trichlorofluoromethane	1	ND		0.00500	0.130	13-Aug-12 14:04 MHM
75-01-4	Vinyl chloride	1	ND		0.00200	0.00200	13-Aug-12 14:04 MHM
	m&p-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:04 MHM
95-47-6	o-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:04 MHM

40 compound(s) reported

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-TB
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012252
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		0.0100	0.100	13-Aug-12 14:24 MHM
71-43-2	Benzene	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
75-27-4	Bromodichloromethane	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
75-25-2	Bromoform	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
74-83-9	Bromomethane	1	ND		0.00500	0.0100	13-Aug-12 14:24 MHM
78-93-3	2-Butanone (MEK)	1	ND		0.0100	0.190	13-Aug-12 14:24 MHM
75-15-0	Carbon disulfide	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
56-23-5	Carbon tetrachloride	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
108-90-7	Chlorobenzene	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
75-00-3	Chloroethane	1	ND		0.00500	0.0100	13-Aug-12 14:24 MHM
67-66-3	Chloroform	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
74-87-3	Chloromethane	1	ND		0.00500	0.0100	13-Aug-12 14:24 MHM
124-48-1	Dibromochloromethane	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		0.00500	0.000200	13-Aug-12 14:24 MHM
75-34-3	1,1-Dichloroethane	1	ND		0.00500	0.0810	13-Aug-12 14:24 MHM
107-06-2	1,2-Dichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
75-35-4	1,1-Dichloroethene	1	ND		0.00500	0.00700	13-Aug-12 14:24 MHM
156-59-2	cis-1,2-Dichloroethene	1	ND		0.00500	0.0700	13-Aug-12 14:24 MHM
156-60-5	trans-1,2-Dichloroethene	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
78-87-5	1,2-Dichloropropane	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
100-41-4	Ethylbenzene	1	ND		0.00500	0.700	13-Aug-12 14:24 MHM
1634-04-4	Methyl-tert-butyl ether	1	ND		0.00500	0.0200	13-Aug-12 14:24 MHM
75-09-2	Methylene chloride	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.0100	0.200	13-Aug-12 14:24 MHM
78-83-1	Isobutanol	1	ND		0.250	1.10	13-Aug-12 14:24 MHM
100-42-5	Styrene	1	ND		0.00500	0.100	13-Aug-12 14:24 MHM
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.00500	0.000500	13-Aug-12 14:24 MHM
127-18-4	Tetrachloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
108-88-3	Toluene	1	ND		0.00500	1.00	13-Aug-12 14:24 MHM
120-82-1	1,2,4-Trichlorobenzene	1	ND		0.00500	0.0700	13-Aug-12 14:24 MHM
71-55-6	1,1,1-Trichloroethane	1	ND		0.00500	0.200	13-Aug-12 14:24 MHM

Protocol 8/21/2012 11:39:22

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-TB
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012252
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
79-00-5	1,1,2-Trichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
79-01-6	Trichloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:24 MHM
75-69-4	Trichlorofluoromethane	1	ND		0.00500	0.130	13-Aug-12 14:24 MHM
75-01-4	Vinyl chloride	1	ND		0.00200	0.00200	13-Aug-12 14:24 MHM
	m&p-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:24 MHM
95-47-6	o-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:24 MHM

40 compound(s) reported

Protocol 8/21/2012 11:39:22

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: EPA 8270
GCMS SVOAs Dual pH
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
62-53-3	Aniline	1	ND		10.0	12.0	15-Aug-12 11:41	JAM
92-52-4	Biphenyl (Diphenyl)	1	ND		10.0	30.0	15-Aug-12 11:41	JAM
85-68-7	Butylbenzylphthalate	1	ND		10.0	730.	15-Aug-12 11:41	JAM
88-85-7	Dinoseb	1	ND		10.0	7.00	15-Aug-12 11:41	JAM
106-47-8	3&4-Chloroaniline	1	ND		10.0	20.0	15-Aug-12 11:41	JAM
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	5.70	15-Aug-12 11:41	JAM
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0	5.70	15-Aug-12 11:41	JAM
91-58-7	2-Chloronaphthalene	1	ND		10.0	49.0	15-Aug-12 11:41	JAM
95-57-8	2-Chlorophenol	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
132-64-9	Dibenzofuran	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
95-50-1	1,2-Dichlorobenzene	1	ND		10.0	600.	15-Aug-12 11:41	JAM
541-73-1	1,3-Dichlorobenzene	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
106-46-7	1,4-Dichlorobenzene	1	ND		10.0	75.0	15-Aug-12 11:41	JAM
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	20.0	15-Aug-12 11:41	JAM
120-83-2	2,4-Dichlorophenol	1	ND		10.0	11.0	15-Aug-12 11:41	JAM
84-66-2	Diethylphthalate	1	ND		10.0	2900	15-Aug-12 11:41	JAM
105-67-9	2,4-Dimethylphenol	1	ND		10.0	73.0	15-Aug-12 11:41	JAM
131-11-3	Dimethylphthalate	1	ND		10.0	37000	15-Aug-12 11:41	JAM
99-65-0	1,3-Dinitrobenzene	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
51-28-5	2,4-Dinitrophenol	1	ND		10.0	50.0	15-Aug-12 11:41	JAM
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
117-84-0	Di-n-octylphthalate	1	ND		10.0	20.0	15-Aug-12 11:41	JAM
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	6.00	15-Aug-12 11:41	JAM
118-74-1	Hexachlorobenzene	1	ND		10.0	1.00	15-Aug-12 11:41	JAM
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0	0.730	15-Aug-12 11:41	JAM
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	50.0	15-Aug-12 11:41	JAM
67-72-1	Hexachloroethane	1	ND		10.0	10.0	15-Aug-12 11:41	JAM
78-59-1	Isophorone	1	ND		10.0	70.0	15-Aug-12 11:41	JAM
88-74-4	2-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:41	JAM
99-09-2	3-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:41	JAM
100-01-6	4-Nitroaniline	1	ND		10.0	50.0	15-Aug-12 11:41	JAM
98-95-3	Nitrobenzene	1	ND		10.0	1.90	15-Aug-12 11:41	JAM
100-02-7	4-Nitrophenol	1	ND		10.0	50.0	15-Aug-12 11:41	JAM

Protocol 8/21/2012 11:39:22

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: EPA 8270
GCMS SVOAs Dual pH
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	10.0	15-Aug-12 11:41 JAM
86-30-6	N-Nitrosodiphenylamine	1	ND		10.0	14.0	15-Aug-12 11:41 JAM
87-86-5	Pentachlorophenol	1	ND		10.0	1.00	15-Aug-12 11:41 JAM
108-95-2	Phenol	1	ND		10.0	180.	15-Aug-12 11:41 JAM
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	1.10	15-Aug-12 11:41 JAM
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	110.	15-Aug-12 11:41 JAM
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0	370.	15-Aug-12 11:41 JAM
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	10.0	15-Aug-12 11:41 JAM

42 compound(s) reported

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190216
Method: EPA 8270
GCMS SVOAs SIM Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
83-32-9	Acenaphthene	1	ND		0.000100	0.0370	13-Aug-12 21:57 JAM
208-96-8	Acenaphthylene	1	ND		0.000100	0.100	13-Aug-12 21:57 JAM
120-12-7	Anthracene	1	ND		0.000100	0.0430	13-Aug-12 21:57 JAM
56-55-3	Benzo(a)anthracene	1	ND		0.000100	0.00780	13-Aug-12 21:57 JAM
205-99-2	Benzo(b)fluoranthene	1	ND		0.000100	0.00480	13-Aug-12 21:57 JAM
207-08-9	Benzo(k)fluoranthene	1	ND		0.000100	0.00250	13-Aug-12 21:57 JAM
50-32-8	Benzo(a)pyrene	1	ND		0.000100	0.000200	13-Aug-12 21:57 JAM
218-01-9	Chrysene	1	ND		0.000100	0.00160	13-Aug-12 21:57 JAM
53-70-3	Dibenz(a,h)anthracene	1	ND		0.000100	0.00250	13-Aug-12 21:57 JAM
206-44-0	Fluoranthene	1	ND		0.000100	0.150	13-Aug-12 21:57 JAM
86-73-7	Fluorene	1	ND		0.000100	0.0240	13-Aug-12 21:57 JAM
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		0.000100	0.00370	13-Aug-12 21:57 JAM
91-57-6	2-Methylnaphthalene	1	ND		0.000100	0.000620	13-Aug-12 21:57 JAM
91-20-3	Naphthalene	1	ND		0.000100	0.0100	13-Aug-12 21:57 JAM
85-01-8	Phenanthrene	1	ND		0.000100	0.180	13-Aug-12 21:57 JAM
129-00-0	Pyrene	1	ND		0.000100	0.0180	13-Aug-12 21:57 JAM

16 compound(s) reported

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
67-64-1	Acetone	1	ND		0.0100	0.100	13-Aug-12 14:44	RMP
71-43-2	Benzene	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
75-27-4	Bromodichloromethane	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
75-25-2	Bromoform	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
74-83-9	Bromomethane	1	ND		0.00500	0.0100	13-Aug-12 14:44	RMP
78-93-3	2-Butanone (MEK)	1	ND		0.0100	0.190	13-Aug-12 14:44	RMP
75-15-0	Carbon disulfide	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
56-23-5	Carbon tetrachloride	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
108-90-7	Chlorobenzene	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
75-00-3	Chloroethane	1	ND		0.00500	0.0100	13-Aug-12 14:44	RMP
67-66-3	Chloroform	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
74-87-3	Chloromethane	1	ND		0.00500	0.0100	13-Aug-12 14:44	RMP
124-48-1	Dibromochloromethane	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		0.00500	0.000200	13-Aug-12 14:44	RMP
75-34-3	1,1-Dichloroethane	1	ND		0.00500	0.0810	13-Aug-12 14:44	RMP
107-06-2	1,2-Dichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
75-35-4	1,1-Dichloroethene	1	ND		0.00500	0.00700	13-Aug-12 14:44	RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		0.00500	0.0700	13-Aug-12 14:44	RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
78-87-5	1,2-Dichloropropane	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
100-41-4	Ethylbenzene	1	ND		0.00500	0.700	13-Aug-12 14:44	RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		0.00500	0.0200	13-Aug-12 14:44	RMP
75-09-2	Methylene chloride	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		0.0100	0.200	13-Aug-12 14:44	RMP
78-83-1	Isobutanol	1	ND		0.250	1.10	13-Aug-12 14:44	RMP
100-42-5	Styrene	1	ND		0.00500	0.100	13-Aug-12 14:44	RMP
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		0.00500	0.000500	13-Aug-12 14:44	RMP
127-18-4	Tetrachloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:44	RMP
108-88-3	Toluene	1	ND		0.00500	1.00	13-Aug-12 14:44	RMP
120-82-1	1,2,4-Trichlorobenzene	1	ND		0.00500	0.0700	13-Aug-12 14:44	RMP
71-55-6	1,1,1-Trichloroethane	1	ND		0.00500	0.200	13-Aug-12 14:44	RMP

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
79-00-5	1,1,2-Trichloroethane	1	ND		0.00500	0.00500	13-Aug-12 14:44 RMP
79-01-6	Trichloroethene	1	ND		0.00500	0.00500	13-Aug-12 14:44 RMP
75-69-4	Trichlorofluoromethane	1	ND		0.00500	0.130	13-Aug-12 14:44 RMP
75-01-4	Vinyl chloride	1	ND		0.00200	0.00200	13-Aug-12 14:44 RMP
	m&p-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:44 RMP
95-47-6	o-Xylene	1	ND		0.00500	10.0	13-Aug-12 14:44 RMP

40 compound(s) reported

Protocol 8/21/2012 11:39:22

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14 MS 1
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253 MS 1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water MS
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 14-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	59.1		10.0		14-Aug-12 11:40 MHM
71-43-2	Benzene	1	50.5		5.00		14-Aug-12 11:40 MHM
75-27-4	Bromodichloromethane	1	55.3		5.00		14-Aug-12 11:40 MHM
75-25-2	Bromoform	1	56.5		5.00		14-Aug-12 11:40 MHM
74-83-9	Bromomethane	1	43.1		5.00		14-Aug-12 11:40 MHM
78-93-3	2-Butanone (MEK)	1	51.0		10.0		14-Aug-12 11:40 MHM
75-15-0	Carbon disulfide	1	43.6		5.00		14-Aug-12 11:40 MHM
56-23-5	Carbon tetrachloride	1	53.5		5.00		14-Aug-12 11:40 MHM
108-90-7	Chlorobenzene	1	52.9		5.00		14-Aug-12 11:40 MHM
75-00-3	Chloroethane	1	39.7		5.00		14-Aug-12 11:40 MHM
67-66-3	Chloroform	1	51.8		5.00		14-Aug-12 11:40 MHM
74-87-3	Chloromethane	1	30.3		5.00		14-Aug-12 11:40 MHM
96-12-8	1,2-Dibromo-3-chloropropane	1	52.2		5.00		14-Aug-12 11:40 MHM
124-48-1	Dibromochloromethane	1	52.2		5.00		14-Aug-12 11:40 MHM
95-50-1	1,2-Dichlorobenzene	1	50.6		5.00		14-Aug-12 11:40 MHM
541-73-1	1,3-Dichlorobenzene	1	51.0		5.00		14-Aug-12 11:40 MHM
106-46-7	1,4-Dichlorobenzene	1	51.5		5.00		14-Aug-12 11:40 MHM
75-34-3	1,1-Dichloroethane	1	49.0		5.00		14-Aug-12 11:40 MHM
107-06-2	1,2-Dichloroethane	1	59.3		5.00		14-Aug-12 11:40 MHM
75-35-4	1,1-Dichloroethene	1	48.9		5.00		14-Aug-12 11:40 MHM
156-59-2	cis-1,2-Dichloroethene	1	49.0		5.00		14-Aug-12 11:40 MHM
156-60-5	trans-1,2-Dichloroethene	1	46.6		5.00		14-Aug-12 11:40 MHM
78-87-5	1,2-Dichloropropane	1	54.0		5.00		14-Aug-12 11:40 MHM
10061-01-5	cis-1,3-Dichloropropene	1	52.6		5.00		14-Aug-12 11:40 MHM
10061-02-6	trans-1,3-Dichloropropene	1	64.5		5.00		14-Aug-12 11:40 MHM
100-41-4	Ethylbenzene	1	51.0		5.00		14-Aug-12 11:40 MHM
87-68-3	Hexachloro-1,3-butadiene	1	53.5		5.00		14-Aug-12 11:40 MHM
78-83-1	Isobutanol	1	1110	E	250.		14-Aug-12 11:40 MHM
75-09-2	Methylene chloride	1	43.7		5.00		14-Aug-12 11:40 MHM
108-10-1	4-Methyl-2-pentanone (MIBK)	1	53.4		10.0		14-Aug-12 11:40 MHM
1634-04-4	Methyl-tert-butyl ether	1	48.1		5.00		14-Aug-12 11:40 MHM
91-20-3	Naphthalene	1	42.1		5.00		14-Aug-12 11:40 MHM
100-42-5	Styrene	1	52.9		5.00		14-Aug-12 11:40 MHM
630-20-6	1,1,1,2-Tetrachloroethane	1	47.3		5.00		14-Aug-12 11:40 MHM

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14 MS 1
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253 MS 1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water MS
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 14-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
79-34-5	1,1,2,2-Tetrachloroethane	1	51.9		5.00		14-Aug-12 11:40 MHM
127-18-4	Tetrachloroethene	1	48.0		5.00		14-Aug-12 11:40 MHM
108-88-3	Toluene	1	53.3		5.00		14-Aug-12 11:40 MHM
120-82-1	1,2,4-Trichlorobenzene	1	44.6		5.00		14-Aug-12 11:40 MHM
71-55-6	1,1,1-Trichloroethane	1	49.4		5.00		14-Aug-12 11:40 MHM
79-00-5	1,1,2-Trichloroethane	1	64.9		5.00		14-Aug-12 11:40 MHM
79-01-6	Trichloroethene	1	48.7		5.00		14-Aug-12 11:40 MHM
75-69-4	Trichlorofluoromethane	1	44.6		5.00		14-Aug-12 11:40 MHM
75-01-4	Vinyl chloride	1	41.8		5.00		14-Aug-12 11:40 MHM
	m&p-Xylene	1	103.		5.00		14-Aug-12 11:40 MHM
95-47-6	o-Xylene	1	50.0		5.00		14-Aug-12 11:40 MHM

45 compound(s) reported

Protocol 8/21/2012 11:39:22

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Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14 MSD 1
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253 MSD 1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water MS
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 14-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	52.3		10.0		14-Aug-12 12:00 MHM
71-43-2	Benzene	1	49.4		5.00		14-Aug-12 12:00 MHM
75-27-4	Bromodichloromethane	1	54.0		5.00		14-Aug-12 12:00 MHM
75-25-2	Bromoform	1	56.4		5.00		14-Aug-12 12:00 MHM
74-83-9	Bromomethane	1	41.3		5.00		14-Aug-12 12:00 MHM
78-93-3	2-Butanone (MEK)	1	43.9		10.0		14-Aug-12 12:00 MHM
75-15-0	Carbon disulfide	1	44.2		5.00		14-Aug-12 12:00 MHM
56-23-5	Carbon tetrachloride	1	53.6		5.00		14-Aug-12 12:00 MHM
108-90-7	Chlorobenzene	1	53.5		5.00		14-Aug-12 12:00 MHM
75-00-3	Chloroethane	1	38.3		5.00		14-Aug-12 12:00 MHM
67-66-3	Chloroform	1	51.0		5.00		14-Aug-12 12:00 MHM
74-87-3	Chloromethane	1	30.5		5.00		14-Aug-12 12:00 MHM
96-12-8	1,2-Dibromo-3-chloropropane	1	47.6		5.00		14-Aug-12 12:00 MHM
124-48-1	Dibromochloromethane	1	50.7		5.00		14-Aug-12 12:00 MHM
95-50-1	1,2-Dichlorobenzene	1	51.5		5.00		14-Aug-12 12:00 MHM
541-73-1	1,3-Dichlorobenzene	1	51.7		5.00		14-Aug-12 12:00 MHM
106-46-7	1,4-Dichlorobenzene	1	52.4		5.00		14-Aug-12 12:00 MHM
75-34-3	1,1-Dichloroethane	1	48.1		5.00		14-Aug-12 12:00 MHM
107-06-2	1,2-Dichloroethane	1	57.4		5.00		14-Aug-12 12:00 MHM
75-35-4	1,1-Dichloroethene	1	48.5		5.00		14-Aug-12 12:00 MHM
156-59-2	cis-1,2-Dichloroethene	1	50.2		5.00		14-Aug-12 12:00 MHM
156-60-5	trans-1,2-Dichloroethene	1	47.3		5.00		14-Aug-12 12:00 MHM
78-87-5	1,2-Dichloropropane	1	51.8		5.00		14-Aug-12 12:00 MHM
10061-01-5	cis-1,3-Dichloropropene	1	51.7		5.00		14-Aug-12 12:00 MHM
10061-02-6	trans-1,3-Dichloropropene	1	63.6		5.00		14-Aug-12 12:00 MHM
100-41-4	Ethylbenzene	1	52.6		5.00		14-Aug-12 12:00 MHM
87-68-3	Hexachloro-1,3-butadiene	1	52.9		5.00		14-Aug-12 12:00 MHM
78-83-1	Isobutanol	1	922.	E	250.		14-Aug-12 12:00 MHM
75-09-2	Methylene chloride	1	43.0		5.00		14-Aug-12 12:00 MHM
108-10-1	4-Methyl-2-pentanone (MIBK)	1	50.4		10.0		14-Aug-12 12:00 MHM
1634-04-4	Methyl-tert-butyl ether	1	45.4		5.00		14-Aug-12 12:00 MHM
91-20-3	Naphthalene	1	39.0		5.00		14-Aug-12 12:00 MHM
100-42-5	Styrene	1	54.8		5.00		14-Aug-12 12:00 MHM
630-20-6	1,1,1,2-Tetrachloroethane	1	48.7		5.00		14-Aug-12 12:00 MHM

Protocol 8/21/2012 11:39:22

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Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14 MSD 1
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253 MSD 1
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: EPA 8260
GCMS VOAs Water MS
Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 14-Aug-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
79-34-5	1,1,2,2-Tetrachloroethane	1	49.0		5.00		14-Aug-12 12:00 MHM
127-18-4	Tetrachloroethene	1	49.8		5.00		14-Aug-12 12:00 MHM
108-88-3	Toluene	1	54.1		5.00		14-Aug-12 12:00 MHM
120-82-1	1,2,4-Trichlorobenzene	1	43.6		5.00		14-Aug-12 12:00 MHM
71-55-6	1,1,1-Trichloroethane	1	49.0		5.00		14-Aug-12 12:00 MHM
79-00-5	1,1,2-Trichloroethane	1	61.0		5.00		14-Aug-12 12:00 MHM
79-01-6	Trichloroethene	1	48.9		5.00		14-Aug-12 12:00 MHM
75-69-4	Trichlorofluoromethane	1	44.9		5.00		14-Aug-12 12:00 MHM
75-01-4	Vinyl chloride	1	42.4		5.00		14-Aug-12 12:00 MHM
	m&p-Xylene	1	109.		5.00		14-Aug-12 12:00 MHM
95-47-6	o-Xylene	1	50.9		5.00		14-Aug-12 12:00 MHM

45 compound(s) reported

Protocol 8/21/2012 11:39:22

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Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
%Moisture: n/a
Description: None

Collected: 10-Aug-12
Received: 10-Aug-12

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Chloride	SM 4500-Cl E	190235	10	1220	D1	mg/L	10.0	13-Aug-12	13-Aug-12 11:08 TAE	
Sulfate	ASTM D516-9	190466	1	ND		mg/L	1.00	15-Aug-12	15-Aug-12 11:47 JMA	
Total Dissolved Solids	SM 2540C	190240	1	2800		mg/L	10.0	13-Aug-12	13-Aug-12 11:04 SMS2	

3 parameter(s) reported

Inorganics 8/21/2012 11:39:24

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Sample Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project: 20142694
Project ID: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
%Moisture: n/a
Description: None

Collected: 10-Aug-12
Received: 10-Aug-12

Analyte	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Limit
Chloride	SM 4500-Cl E	190235	10	833.	D1	mg/L	10.0	13-Aug-12	13-Aug-12 11:08 TAE	
Sulfate	ASTM D516-9	190466	1	ND		mg/L	1.00	15-Aug-12	15-Aug-12 11:47 JMA	
Total Dissolved Solids	SM 2540C	190240	1	1950		mg/L	10.0	13-Aug-12	13-Aug-12 11:05 SMS2	

3 parameter(s) reported

Inorganics 8/21/2012 11:39:24

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Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190216 **Project:** 20142694

Method: Water GC/MS Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
201012309	190216 BLANK 1		75	76						
201012310	190216 LCS 1		70	66						
201012251	327-1200810-13		72	68						
201012253	327-1200810-14		73	87						
	QC limits:		12-110	25-113						

Sur 1: 2-Fluorobiphenyl (S)
Sur 2: Terphenyl-d14 (S)

Surrogates 8/21/2012 11:39:25

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190246 **Project:** 20142694

Method: Water GC/MS Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
201012411	190246 BLANK 1		84	78	64	96	78	87		
201012412	190246 LCS 1		68	80	64	83	64	80		
201012251	327-1200810-13		35	50	42	54	59	56		
201012253	327-1200810-14		63	75	54	91	78	84		
QC limits:			25-145	34-117	10-118	33-120	15-134	24-133		

Sur 1: 2,4,6-Tribromophenol (S)
Sur 2: 2-Fluorobiphenyl (S)
Sur 3: 2-Fluorophenol (S)
Sur 4: Nitrobenzene-d5 (S)
Sur 5: Phenol-d5 (S)
Sur 6: Terphenyl-d14 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190210 **Project:** 20142694

Method: Water GC/MS Volatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
201012293	190210 BLANK 1		94	112	106					
201012862	190210 BLANK 2		95	112	105					
201012294	190210 LCS 1		103	98	108					
201012863	190210 LCS 2		97	98	103					
201012251	327-1200810-13		98	106	105					
201012253	327-1200810-14		99	106	106					
201012295	327-1200810-14 MS 1		97	101	103					
201012296	327-1200810-14 MSD 1		96	99	106					
201012252	327-1200810-TB		93	109	102					
	QC limits:		68-124	72-126	79-119					

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190216 **Project:** 20142694 **LCS:** 20101231 13-Aug-12 14:44

Method: Water GC/MS Semivolatile Organics **MS:**

Units: ug/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acenaphthene	2.00	1.39	70								39-110			Q5
Acenaphthylene	2.00	1.31	66								30-110			Q5
Anthracene	2.00	1.34	67								34-110			Q5
Benzo(a)anthracene	2.00	1.26	63								32-110			Q5
Benzo(b)fluoranthene	2.00	1.30	65								30-110			Q5
Benzo(k)fluoranthene	2.00	1.49	75								28-110			Q5
Benzo(a)pyrene	2.00	1.19	60								29-110			Q5
Chrysene	2.00	1.50	75								34-110			Q5
Dibenz(a,h)anthracene	2.00	1.49	75								21-110			Q5
Fluoranthene	2.00	1.45	73								39-114			Q5
Fluorene	2.00	1.43	72								37-110			Q5
Indeno(1,2,3-cd)pyrene	2.00	1.49	75								27-110			Q5
2-Methylnaphthalene	2.00	1.19	60								35-110			Q5
Naphthalene	2.00	1.46	73								40-110			Q5
Phenanthrene	2.00	1.44	72								36-110			Q5
Pyrene	2.00	1.28	64								32-110			Q5

16 compound(s) reported

QC Protocol 8/21/2012 11:39:26

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190246 **Project:** 20142694 **LCS:** 20101241 15-Aug-12 10:50

Method: Water GC/MS Semivolatile Organics **MS:**

Units: ug/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aniline	50.0	45.0	90								10-142			Q5
Butylbenzylphthalate	50.0	27.5	55								48-117			Q5
3&4-Chloroaniline	50.0	41.0	82								21-122			Q5
bis(2-Chloroethyl) ether	50.0	32.7	65								48-110			Q5
2-Chloronaphthalene	50.0	32.7	65								53-110			Q5
2-Chlorophenol	50.0	34.6	69								44-110			Q5
Dibenzofuran	50.0	32.1	64								53-110			Q5
1,2-Dichlorobenzene	50.0	33.5	67								46-110			Q5
1,3-Dichlorobenzene	50.0	34.3	69								43-110			Q5
1,4-Dichlorobenzene	50.0	34.1	68								44-110			Q5
3,3'-Dichlorobenzidine	50.0	47.0	94								21-132			Q5
2,4-Dichlorophenol	50.0	37.7	75								40-110			Q5
Diethylphthalate	50.0	29.2	58								50-116			Q5
2,4-Dimethylphenol	50.0	37.4	75								23-110			Q5
Dimethylphthalate	50.0	29.4	59								52-112			Q5
2,4-Dinitrophenol	50.0	27.7	56								10-130			Q5
2,4-Dinitrotoluene	50.0	31.3	63								49-113			Q5
2,6-Dinitrotoluene	50.0	31.8	64								52-112			Q5
Di-n-octylphthalate	50.0	26.9	54								41-126			Q5
bis(2-Ethylhexyl)phthalate	50.0	27.6	55								46-123			Q5
Hexachloro-1,3-butadiene	50.0	37.5	75								33-110			Q5
Hexachlorobenzene	50.0	30.6	61								51-110			Q5
Hexachlorocyclopentadiene	50.0	12.3	25								10-110			Q5
Hexachloroethane	50.0	35.1	70								40-110			Q5
Isophorone	50.0	35.1	70								42-110			Q5
2-Nitroaniline	50.0	37.0	74								51-114			Q5
3-Nitroaniline	50.0	36.7	73								40-118			Q5
4-Nitroaniline	50.0	39.6	79								40-125			Q5
Nitrobenzene	50.0	35.7	71								42-110			Q5
4-Nitrophenol	50.0	28.7	57								28-126			Q5
N-Nitroso-di-n-propylamine	50.0	31.5	63								47-116			Q5
N-Nitrosodiphenylamine	50.0	38.2	76								39-125			Q5
2,2'-Oxybis(1-chloropropane)	50.0	31.4	63								39-118			Q5
Pentachlorophenol	50.0	26.2	52								31-122			Q5
Phenol	50.0	34.6	69								42-110			Q5
2,4,5-Trichlorophenol	50.0	33.7	67								46-110			Q5
2,4,6-Trichlorophenol	50.0	34.2	68								47-110			Q5

37 compound(s) reported

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

QC Protocol 8/21/2012 11:39:26

Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190210 **Project:** 20142694 **LCS:** 20101229 13-Aug-12 9:43

Method: Water GC/MS Volatile Organics **MS:** 20101229 14-Aug-12 11:40

Units: ug/L **MSD:** 20101229 14-Aug-12 12:00

Original for MS: Client Sample 201012253

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50.0	56.5	113	50.0		59.1	52.3	118	105	12	10-195	10-204	20	
Benzene	50.0	50.6	101	50.0	0.540	50.5	49.4	100	98	2	66-132	58-140	20	
Bromodichloromethane	50.0	54.5	109	50.0		55.3	54.0	111	108	2	67-132	63-137	20	
Bromoform	50.0	62.9	126	50.0		56.5	56.4	113	113	0	53-152	49-156	20	
Bromomethane	50.0	43.2	86	50.0		43.1	41.3	86	83	4	47-150	43-152	20	
2-Butanone (MEK)	50.0	50.2	100	50.0		51.0	43.9	102	88	15	16-167	11-180	20	
Carbon disulfide	50.0	41.7	83	50.0		43.6	44.2	87	88	1	18-173	10-184	20	
Carbon tetrachloride	50.0	53.3	107	50.0		53.5	53.6	107	107	0	55-143	50-148	20	
Chlorobenzene	50.0	55.0	110	50.0		52.9	53.5	106	107	1	71-131	69-136	20	
Chloroethane	50.0	38.4	77	50.0		39.7	38.3	80	77	4	31-192	20-193	20	
Chloroform	50.0	49.7	99	50.0		51.8	51.0	104	102	2	69-134	65-140	20	
Chloromethane	50.0	32.5	65	50.0		30.3	30.5	61	61	1	29-157	27-160	20	
1,2-Dibromo-3-chloropropane	50.0	54.7	109	50.0		52.2	47.6	104	95	9	37-151	34-159	20	
Dibromochloromethane	50.0	56.4	113	50.0		52.2	50.7	104	101	3	61-138	59-143	20	
1,1-Dichloroethane	50.0	46.5	93	50.0		49.0	48.1	98	96	2	62-137	59-143	20	
1,2-Dichloroethane	50.0	60.9	122	50.0		59.3	57.4	119	115	3	59-145	58-151	20	
1,1-Dichloroethene	50.0	47.3	95	50.0		48.9	48.5	98	97	1	46-156	32-169	20	
cis-1,2-Dichloroethene	50.0	48.6	97	50.0		49.0	50.2	98	101	3	64-131	61-138	20	
trans-1,2-Dichloroethene	50.0	45.6	91	50.0		46.6	47.3	93	95	1	55-138	51-145	20	
1,2-Dichloropropane	50.0	55.1	110	50.0		54.0	51.8	108	104	4	65-130	63-134	20	
cis-1,3-Dichloropropene	50.0	54.5	109	50.0		52.6	51.7	105	103	2	63-137	59-139	20	
trans-1,3-Dichloropropene	50.0	66.1	132	50.0		64.5	63.6	129	127	2	61-143	57-149	20	
Ethylbenzene	50.0	53.3	107	50.0		51.0	52.6	102	105	3	71-130	65-136	20	
Isobutanol	1050	1040	99	1050		1110	922.	105	88	18	10-180	10-189	20	
Methylene chloride	50.0	43.4	87	50.0		43.7	43.0	87	86	2	39-172	33-167	20	
4-Methyl-2-pentanone (MIBK	50.0	60.8	122	50.0		53.4	50.4	107	101	6	43-159	39-167	20	
Methyl-tert-butyl ether	50.0	47.5	95	50.0		48.1	45.4	96	91	6	49-157	45-168	20	
Styrene	50.0	56.6	113	50.0		52.9	54.8	106	110	3	72-134	62-141	20	
1,1,1,2-Tetrachloroethane	50.0	50.7	101	50.0		47.3	48.7	95	98	3	70-136	67-139	20	
1,1,2,2-Tetrachloroethane	50.0	54.8	110	50.0		51.9	49.0	104	98	6	40-157	35-164	20	
Tetrachloroethene	50.0	50.6	101	50.0		48.0	49.8	96	100	4	55-156	44-162	20	
Toluene	50.0	54.9	110	50.0		53.3	54.1	107	108	2	68-131	60-137	20	
1,2,4-Trichlorobenzene	50.0	44.3	89	50.0		44.6	43.6	89	87	2	51-143	49-147	20	
1,1,1-Trichloroethane	50.0	48.5	97	50.0		49.4	49.0	99	98	1	63-133	58-139	20	
1,1,2-Trichloroethane	50.0	66.4	133	50.0		64.9	61.0	130	122	6	64-135	61-140	20	
Trichloroethene	50.0	49.8	100	50.0		48.7	48.9	97	98	0	68-134	58-145	20	
Trichlorofluoromethane	50.0	43.8	88	50.0		44.6	44.9	89	90	1	39-185	15-192	20	
Vinyl chloride	50.0	42.3	85	50.0		41.8	42.4	84	85	1	40-152	32-157	20	
m&p-Xylene	100.	111.	111	100.		103.	109.	103	109	5	68-134	62-139	20	
o-Xylene	50.0	51.6	103	50.0		50.0	50.9	100	102	2	67-131	61-137	20	

40 compound(s) reported

QC Protocol 8/21/2012 11:39:26

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 190210 **Project:** 20142694 **LCS:** 20101286 14-Aug-12 11:12

Method: Water GC/MS Volatile Organics **MS:**

Units: ug/L **MSD:**

Original for MS:

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Acetone	50.0	60.8	122								10-195			
Benzene	50.0	49.1	98								66-132			
Bromodichloromethane	50.0	55.5	111								67-132			
Bromoform	50.0	59.5	119								53-152			
Bromomethane	50.0	41.9	84								47-150			
2-Butanone (MEK)	50.0	51.4	103								16-167			
Carbon disulfide	50.0	40.5	81								18-173			
Carbon tetrachloride	50.0	52.9	106								55-143			
Chlorobenzene	50.0	52.9	106								71-131			
Chloroethane	50.0	38.1	76								31-192			
Chloroform	50.0	49.9	100								69-134			
Chloromethane	50.0	29.6	59								29-157			
1,2-Dibromo-3-chloropropane	50.0	55.6	111								37-151			
Dibromochloromethane	50.0	53.6	107								61-138			
1,1-Dichloroethane	50.0	46.2	92								62-137			
1,2-Dichloroethane	50.0	60.9	122								59-145			
1,1-Dichloroethene	50.0	46.6	93								46-156			
cis-1,2-Dichloroethene	50.0	47.0	94								64-131			
trans-1,2-Dichloroethene	50.0	43.0	86								55-138			
1,2-Dichloropropane	50.0	54.8	110								65-130			
cis-1,3-Dichloropropene	50.0	53.5	107								63-137			
trans-1,3-Dichloropropene	50.0	65.9	132								61-143			
Ethylbenzene	50.0	50.0	100								71-130			
Isobutanol	1050	1190	113								10-180			
Methylene chloride	50.0	43.1	86								39-172			
4-Methyl-2-pentanone (MIBK	50.0	56.7	113								43-159			
Methyl-tert-butyl ether	50.0	46.8	94								49-157			
Styrene	50.0	53.7	107								72-134			
1,1,1,2-Tetrachloroethane	50.0	47.6	95								70-136			
1,1,2,2-Tetrachloroethane	50.0	54.5	109								40-157			
Tetrachloroethene	50.0	47.0	94								55-156			
Toluene	50.0	53.3	107								68-131			
1,2,4-Trichlorobenzene	50.0	45.5	91								51-143			
1,1,1-Trichloroethane	50.0	47.8	96								63-133			
1,1,2-Trichloroethane	50.0	66.4	133								64-135			
Trichloroethene	50.0	49.6	99								68-134			
Trichlorofluoromethane	50.0	43.8	88								39-185			
Vinyl chloride	50.0	40.9	82								40-152			
m&p-Xylene	100.	99.7	100								68-134			
o-Xylene	50.0	49.5	99								67-131			

40 compound(s) reported

QC Protocol 8/21/2012 11:39:26

*** denotes recovery outside of QC limits.**
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190216 BLANK 1 **Project:** 20142694

Lab ID: 201012309

Prep Level: Water **Batch:** 190216

Method: Water GC/MS Semivolatile Organics

Prepared: 13-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
83-32-9	Acenaphthene	1	ND		0.100	13-Aug-12 14:22 JAM
208-96-8	Acenaphthylene	1	ND		0.100	13-Aug-12 14:22 JAM
120-12-7	Anthracene	1	ND		0.100	13-Aug-12 14:22 JAM
56-55-3	Benzo(a)anthracene	1	ND		0.100	13-Aug-12 14:22 JAM
205-99-2	Benzo(b)fluoranthene	1	ND		0.100	13-Aug-12 14:22 JAM
207-08-9	Benzo(k)fluoranthene	1	ND		0.100	13-Aug-12 14:22 JAM
50-32-8	Benzo(a)pyrene	1	ND		0.100	13-Aug-12 14:22 JAM
218-01-9	Chrysene	1	ND		0.100	13-Aug-12 14:22 JAM
53-70-3	Dibenz(a,h)anthracene	1	ND		0.100	13-Aug-12 14:22 JAM
206-44-0	Fluoranthene	1	ND		0.100	13-Aug-12 14:22 JAM
86-73-7	Fluorene	1	ND		0.100	13-Aug-12 14:22 JAM
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		0.100	13-Aug-12 14:22 JAM
91-57-6	2-Methylnaphthalene	1	ND		0.100	13-Aug-12 14:22 JAM
91-20-3	Naphthalene	1	ND		0.100	13-Aug-12 14:22 JAM
85-01-8	Phenanthrene	1	ND		0.100	13-Aug-12 14:22 JAM
129-00-0	Pyrene	1	ND		0.100	13-Aug-12 14:22 JAM

16 compound(s) reported

Protocol Blank 8/21/2012 11:39:2

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190246 BLANK 1 **Project:** 20142694

Lab ID: 201012411

Prep Level: Water **Batch:** 190246

Method: Water GC/MS Semivolatile Organics

Prepared: 13-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
62-53-3	Aniline	1	ND		10.0	15-Aug-12 10:26 JAM
92-52-4	Biphenyl (Diphenyl)	1	ND		10.0	15-Aug-12 10:26 JAM
85-68-7	Butylbenzylphthalate	1	ND		10.0	15-Aug-12 10:26 JAM
106-47-8	3&4-Chloroaniline	1	ND		10.0	15-Aug-12 10:26 JAM
111-44-4	bis(2-Chloroethyl) ether	1	ND		10.0	15-Aug-12 10:26 JAM
91-58-7	2-Chloronaphthalene	1	ND		10.0	15-Aug-12 10:26 JAM
95-57-8	2-Chlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM
132-64-9	Dibenzofuran	1	ND		10.0	15-Aug-12 10:26 JAM
95-50-1	1,2-Dichlorobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
541-73-1	1,3-Dichlorobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
106-46-7	1,4-Dichlorobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
91-94-1	3,3'-Dichlorobenzidine	1	ND		20.0	15-Aug-12 10:26 JAM
120-83-2	2,4-Dichlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM
84-66-2	Diethylphthalate	1	ND		10.0	15-Aug-12 10:26 JAM
105-67-9	2,4-Dimethylphenol	1	ND		10.0	15-Aug-12 10:26 JAM
131-11-3	Dimethylphthalate	1	ND		10.0	15-Aug-12 10:26 JAM
99-65-0	1,3-Dinitrobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
51-28-5	2,4-Dinitrophenol	1	ND		10.0	15-Aug-12 10:26 JAM
121-14-2	2,4-Dinitrotoluene	1	ND		10.0	15-Aug-12 10:26 JAM
606-20-2	2,6-Dinitrotoluene	1	ND		10.0	15-Aug-12 10:26 JAM
117-84-0	Di-n-octylphthalate	1	ND		10.0	15-Aug-12 10:26 JAM
88-85-7	Dinoseb	1	ND		10.0	15-Aug-12 10:26 JAM
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		10.0	15-Aug-12 10:26 JAM
87-68-3	Hexachloro-1,3-butadiene	1	ND		10.0	15-Aug-12 10:26 JAM
118-74-1	Hexachlorobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
77-47-4	Hexachlorocyclopentadiene	1	ND		10.0	15-Aug-12 10:26 JAM
67-72-1	Hexachloroethane	1	ND		10.0	15-Aug-12 10:26 JAM
78-59-1	Isophorone	1	ND		10.0	15-Aug-12 10:26 JAM
88-74-4	2-Nitroaniline	1	ND		10.0	15-Aug-12 10:26 JAM
99-09-2	3-Nitroaniline	1	ND		10.0	15-Aug-12 10:26 JAM
100-01-6	4-Nitroaniline	1	ND		10.0	15-Aug-12 10:26 JAM
98-95-3	Nitrobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
100-02-7	4-Nitrophenol	1	ND		10.0	15-Aug-12 10:26 JAM
621-64-7	N-Nitroso-di-n-propylamine	1	ND		10.0	15-Aug-12 10:26 JAM

Protocol Blank 8/21/2012 11:39:2

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
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Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190246 BLANK 1 **Project:** 20142694

Lab ID: 201012411

Prep Level: Water **Batch:** 190246

Method: Water GC/MS Semivolatile Organics

Prepared: 13-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
86-30-6	N-Nitrosodiphenylamine	1	ND		10.0	15-Aug-12 10:26 JAM
108-60-1	2,2'-Oxybis(1-chloropropane)	1	ND		10.0	15-Aug-12 10:26 JAM
87-86-5	Pentachlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM
108-95-2	Phenol	1	ND		10.0	15-Aug-12 10:26 JAM
95-94-3	1,2,4,5-Tetrachlorobenzene	1	ND		10.0	15-Aug-12 10:26 JAM
58-90-2	2,3,4,6-Tetrachlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM
95-95-4	2,4,5-Trichlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM
88-06-2	2,4,6-Trichlorophenol	1	ND		10.0	15-Aug-12 10:26 JAM

42 compound(s) reported

Protocol Blank 8/21/2012 11:39:2

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Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190210 BLANK 1 **Project:** 20142694

Lab ID: 201012293

Prep Level: Water **Batch:** 190210

Method: Water GC/MS Volatile Organics

Prepared: 13-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
67-64-1	Acetone	1	ND		10.0	13-Aug-12 09:24 RMP
71-43-2	Benzene	1	0.930	J	5.00	13-Aug-12 09:24 RMP
75-27-4	Bromodichloromethane	1	ND		5.00	13-Aug-12 09:24 RMP
75-25-2	Bromoform	1	ND		5.00	13-Aug-12 09:24 RMP
74-83-9	Bromomethane	1	ND		5.00	13-Aug-12 09:24 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0	13-Aug-12 09:24 RMP
75-15-0	Carbon disulfide	1	ND		5.00	13-Aug-12 09:24 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00	13-Aug-12 09:24 RMP
108-90-7	Chlorobenzene	1	ND		5.00	13-Aug-12 09:24 RMP
75-00-3	Chloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
67-66-3	Chloroform	1	ND		5.00	13-Aug-12 09:24 RMP
74-87-3	Chloromethane	1	ND		5.00	13-Aug-12 09:24 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	13-Aug-12 09:24 RMP
124-48-1	Dibromochloromethane	1	ND		5.00	13-Aug-12 09:24 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00	13-Aug-12 09:24 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00	13-Aug-12 09:24 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	13-Aug-12 09:24 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00	13-Aug-12 09:24 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	13-Aug-12 09:24 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	13-Aug-12 09:24 RMP
100-41-4	Ethylbenzene	1	ND		5.00	13-Aug-12 09:24 RMP
78-83-1	Isobutanol	1	ND		250.	13-Aug-12 09:24 RMP
75-09-2	Methylene chloride	1	ND		5.00	13-Aug-12 09:24 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	13-Aug-12 09:24 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00	13-Aug-12 09:24 RMP
100-42-5	Styrene	1	ND		5.00	13-Aug-12 09:24 RMP
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
127-18-4	Tetrachloroethene	1	ND		5.00	13-Aug-12 09:24 RMP
108-88-3	Toluene	1	ND		5.00	13-Aug-12 09:24 RMP
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00	13-Aug-12 09:24 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	13-Aug-12 09:24 RMP

Protocol Blank 8/21/2012 11:39:2

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Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190210 BLANK 1 **Project:** 20142694

Lab ID: 201012293

Prep Level: Water **Batch:** 190210

Method: Water GC/MS Volatile Organics

Prepared: 13-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	13-Aug-12 09:24 RMP
79-01-6	Trichloroethene	1	ND		5.00	13-Aug-12 09:24 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00	13-Aug-12 09:24 RMP
75-01-4	Vinyl chloride	1	ND		5.00	13-Aug-12 09:24 RMP
	m&p-Xylene	1	ND		5.00	13-Aug-12 09:24 RMP
95-47-6	o-Xylene	1	ND		5.00	13-Aug-12 09:24 RMP

40 compound(s) reported

Protocol Blank 8/21/2012 11:39:2

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190210 BLANK 2 **Project:** 20142694

Lab ID: 201012862

Prep Level: Water **Batch:** 190210

Method: Water GC/MS Volatile Organics

Prepared: 14-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
67-64-1	Acetone	1	ND		10.0	14-Aug-12 10:52 MHM
71-43-2	Benzene	1	ND		5.00	14-Aug-12 10:52 MHM
75-27-4	Bromodichloromethane	1	ND		5.00	14-Aug-12 10:52 MHM
75-25-2	Bromoform	1	ND		5.00	14-Aug-12 10:52 MHM
74-83-9	Bromomethane	1	ND		5.00	14-Aug-12 10:52 MHM
78-93-3	2-Butanone (MEK)	1	ND		10.0	14-Aug-12 10:52 MHM
75-15-0	Carbon disulfide	1	ND		5.00	14-Aug-12 10:52 MHM
56-23-5	Carbon tetrachloride	1	ND		5.00	14-Aug-12 10:52 MHM
108-90-7	Chlorobenzene	1	ND		5.00	14-Aug-12 10:52 MHM
75-00-3	Chloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
67-66-3	Chloroform	1	ND		5.00	14-Aug-12 10:52 MHM
74-87-3	Chloromethane	1	ND		5.00	14-Aug-12 10:52 MHM
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	14-Aug-12 10:52 MHM
124-48-1	Dibromochloromethane	1	ND		5.00	14-Aug-12 10:52 MHM
75-34-3	1,1-Dichloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
107-06-2	1,2-Dichloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
75-35-4	1,1-Dichloroethene	1	ND		5.00	14-Aug-12 10:52 MHM
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00	14-Aug-12 10:52 MHM
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	14-Aug-12 10:52 MHM
78-87-5	1,2-Dichloropropane	1	ND		5.00	14-Aug-12 10:52 MHM
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	14-Aug-12 10:52 MHM
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	14-Aug-12 10:52 MHM
100-41-4	Ethylbenzene	1	ND		5.00	14-Aug-12 10:52 MHM
78-83-1	Isobutanol	1	ND		250.	14-Aug-12 10:52 MHM
75-09-2	Methylene chloride	1	ND		5.00	14-Aug-12 10:52 MHM
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	14-Aug-12 10:52 MHM
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00	14-Aug-12 10:52 MHM
100-42-5	Styrene	1	ND		5.00	14-Aug-12 10:52 MHM
630-20-6	1,1,1,2-Tetrachloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
127-18-4	Tetrachloroethene	1	ND		5.00	14-Aug-12 10:52 MHM
108-88-3	Toluene	1	ND		5.00	14-Aug-12 10:52 MHM
120-82-1	1,2,4-Trichlorobenzene	1	ND		5.00	14-Aug-12 10:52 MHM
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	14-Aug-12 10:52 MHM

Protocol Blank 8/21/2012 11:39:2

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Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 190210 BLANK 2 **Project:** 20142694

Lab ID: 201012862

Prep Level: Water **Batch:** 190210

Method: Water GC/MS Volatile Organics

Prepared: 14-Aug-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	14-Aug-12 10:52 MHM
79-01-6	Trichloroethene	1	ND		5.00	14-Aug-12 10:52 MHM
75-69-4	Trichlorofluoromethane	1	ND		5.00	14-Aug-12 10:52 MHM
75-01-4	Vinyl chloride	1	ND		5.00	14-Aug-12 10:52 MHM
	m&p-Xylene	1	ND		5.00	14-Aug-12 10:52 MHM
95-47-6	o-Xylene	1	ND		5.00	14-Aug-12 10:52 MHM

40 compound(s) reported

Protocol Blank 8/21/2012 11:39:2

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Inorganics Quality Control

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20142694

Parameter	Batch	Blank	Units	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Chloride	190235	< 1.00	mg/L	69.0	63.1	92	100.	1720	1650		0 *		2	90-110	75-125	20	D1,Q3
Total Dissolved Solid	190240	< 10.0	mg/L	100.	103.	103							6	80-120		20	
Sulfate	190466	< 1.00	mg/L	30.9	29.9	97	10.0		11.1		111		0	90-110	75-125	20	

*** denotes recovery outside of QC limits.**

MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

Sample Results

Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project No.: 20142694
Project: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: GCMS SVOAs Dual pH

Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	RT	Tentatively Identified Compound	Dilution	Result	Qu	Analysis	
	3.46	unknown hydrocarbon	1	0.00252	J A1	15-Aug-12 11:15	JAM
	5.46	unknown	1	0.0146	J A1	15-Aug-12 11:15	JAM

2 TIC(s) reported

TICs 8/21/2012 11:39:52

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Sample Results

Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-13
Project No.: 20142694
Project: BAYOU CORNE
Site: None
Lab ID: 201012251
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: GCMS VOAs Water

Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	RT	Tentatively Identified Compound	Dilution	Result	Qu	Analysis
056554-43-9	1.41	3,6-Octadecadiynoic acid, methyl ester	1	1.89	J A1	13-Aug-12 14:04 MHM
000075-09-2	2.45	Methylene Chloride	1	1.91	J A1	13-Aug-12 14:04 MHM
000541-05-9	7.498	Cyclotrisiloxane, hexamethyl-	1	1.18	J A1	13-Aug-12 14:04 MHM
003789-85-3	10.838	Benzoic acid, 2-[(trimethylsilyl)oxy]-, trimethyls	1	1.06	J A1	13-Aug-12 14:04 MHM

4 TIC(s) reported

TICs 8/21/2012 11:39:52

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Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

Sample Results

Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-TB
Project No.: 20142694
Project: BAYOU CORNE
Site: None
Lab ID: 201012252
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: GCMS VOAs Water

Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	RT	Tentatively Identified Compound	Dilution	Result	Qu	Analysis
000075-09-2	2.45	Methylene Chloride	1	1.64	J A1	13-Aug-12 14:24 MHM
000541-05-9	7.49	Cyclotrisiloxane, hexamethyl-	1	1.80	J A1	13-Aug-12 14:24 MHM
000064-04-0	9.3	Benzeneethanamine	1	0.725	J A1	13-Aug-12 14:24 MHM
000127-91-3	9.852	.beta.-Pinene	1	0.940	J A1	13-Aug-12 14:24 MHM
002078-13-9	10.845	Benzoic acid, 4-[(trimethylsilyl)oxy]-, trimethyls	1	0.953	J A1	13-Aug-12 14:24 MHM

5 TIC(s) reported

TICs 8/21/2012 11:39:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

Sample Results

Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project No.: 20142694
Project: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190246
Method: GCMS SVOAs Dual pH

Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: ug/L

CAS No.	RT	Tentatively Identified Compound	Dilution	Result	Qu	Analysis	
	3.32	unknown hydrocarbon	1	0.00242	J A1	15-Aug-12 11:41	JAM
	3.46	unknown hydrocarbon	1	0.00420	J A1	15-Aug-12 11:41	JAM
	5.46	unknown	1	0.0158	J A1	15-Aug-12 11:41	JAM
	11.34	unknown	1	0.00201	J A1	15-Aug-12 11:41	JAM

4 TIC(s) reported

TICs 8/21/2012 11:39:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

Sample Results

Tentatively Identified Compounds

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Client: DEQ LABORATORY

Client ID: 327-1200810-14
Project No.: 20142694
Project: BAYOU CORNE
Site: None
Lab ID: 201012253
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 190210
Method: GCMS VOAs Water

Collected: 10-Aug-12
Received: 10-Aug-12
Prepared: 13-Aug-12

Units: mg/L

CAS No.	RT	Tentatively Identified Compound	Dilution	Result	Qu	Analysis
	1.06	unknown hydrocarbon (43-57-71)	1	1.15	J A1	13-Aug-12 14:44 RMP
	1.08	unknown hydrocarbon (43-57-71)	1	1.11	J A1	13-Aug-12 14:44 RMP
	1.13	unknown hydrocarbon (43-57-71)	1	2.94	J A1	13-Aug-12 14:44 RMP
	1.4	unknown hydrocarbon (43-57-71)	1	1.07	J A1	13-Aug-12 14:44 RMP
	1.42	unknown hydrocarbon (43-57-71)	1	1.70	J A1	13-Aug-12 14:44 RMP
	1.55	unknown hydrocarbon (43-57-71)	1	0.793	J A1	13-Aug-12 14:44 RMP
	2.23	unknown hydrocarbon (43-57-71)	1	0.897	J A1	13-Aug-12 14:44 RMP
	2.46	unknown hydrocarbon (43-57-71)	1	1.96	J A1	13-Aug-12 14:44 RMP

8 TIC(s) reported

TICs 8/21/2012 11:39:52

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification lim

Definitions/Qualifiers

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project: 20142694

Value	Description
A1	The reported values are estimated concentrations determined using a relative response factor of 1.0 for these analytes. Quantitation was based upon the nearest internal standard free of interferences.
D1	The analysis was performed at a dilution due to the high analyte concentration.
Q3	The matrix spike recoveries are poor due to the presence of this analyte in the sample at a concentration greater than 4 times the spiked amount. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample.
Q5	Insufficient sample was provided to perform matrix spike analyses on any sample in this analytical batch. Method performance for this analyte has been demonstrated by the laboratory control sample recovery.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
LCS	Laboratory Control Sample.
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical Services, In
1000 Riverbend Blvd. Suite F
St. Rose, LA 7008
(504) 469-033

Chains of Custody

Pace Analytical™

INTERNAL CHAIN OF CUSTODY

EPN/SDG #: 20142694
Client: DEQ
Analytical Fraction: Voa / OPrep / WQ

PACE ID	CLIENT ID	PACE ID	CLIENT ID
201012251	327-120810-13		
252	327-120810-TB		
201012253	327-120810-14		

DATE	RELINQUISHED BY	RECEIVED BY	COMMENTS
IN 8/10/12	Printed Name: Lisa Nebitt Signature:	Printed Name: TRACY Signature:	EASLEY
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	

Pace Analytical™

INTERNAL CHAIN OF CUSTODY

EPN/SDG #: 20142694
Client: DEQ
Analytical Fraction: Voa / OPrep / WQ

PACE ID	CLIENT ID	PACE ID	CLIENT ID
20101 2251	327-120810-13		
252	327-120810-TB		
20101 2253	327-120810-14		

DATE	RELINQUISHED BY	RECEIVED BY	COMMENTS
IN 8/10/12	Printed Name: Lisa Nesbitt Signature:	Printed Name: Shelley Antoine Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	

Pace Analytical™

INTERNAL CHAIN OF CUSTODY

EPN/SDG #: 20142694
Client: DEQ
Analytical Fraction: Voa / OPrep / WQ

PACE ID	CLIENT ID	PACE ID	CLIENT ID
201012251	327-120810-13		
252	327-120810-TB		
201012253	327-120810-14		

DATE	RELINQUISHED BY	RECEIVED BY	COMMENTS
IN 8/10/12	Printed Name: Lisa Nebbett Signature:	Printed Name: Richard Proctor Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	

Pace Analytical™

INTERNAL CHAIN OF CUSTODY

EPN/SDG #: 20142694
Client: DEQ
Analytical Fraction: Voa / OPrep / WQ

PACE ID	CLIENT ID	PACE ID	CLIENT ID
20101 2251	327-120810-13		
252	327-120810-TB		
20101 2253	327-120810-14		

DATE	RELINQUISHED BY	RECEIVED BY	COMMENTS
IN 8/16/12	Printed Name: Lisa Nebhut Signature:	Printed Name: Bernell Akins Signature:	8/16/12 825
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	
	Printed Name: Signature:	Printed Name: Signature:	

2 20142694 20-DEQ LAB 2

Ou 27148

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

CHAIN OF CUSTODY

LABORATORY SERVICES

Page ____ of ____

Name: Bayou Corne ID# 182981

Address: 602 N. 5th St. BR La 70802

Location: Dow Chemical - Belle Rose (GOD)

Parish: Assumption Team Leader: Laurie Peacock

Permit Number/Inspector's Log Number:

Additional Team Members: Margaret Parker

List any Field Data Sheets that accompany the sample

Office ____ Org.# ____ Project Code ____

Requested Analysis: VOC, SVOC, Chlorides, TDS

Additional Comments: Strong effervescence in VOC Sampler

Sample #/Sampler I.D.	Location ID/Outfall/ (Canister S.N.)	Date	Time	Sample Medium/Type	Methodology	Preservatives	Grab or Comp	# Containers	# Aliquots	VOC	SVOC	Chlorides, TDS	Destination* AL, BL, RL, WL	Remarks (Priority, etc.)
327-120810-13	007-85	8.10.12	11:30	Water	8260	HCl	G	3		✓			20142694-1	BP34
327-120810-13	007-85	8.10.12	11:30	Water	8270	none	G	3			✓			
327-120810-13	007-85	8.10.12	11:30	Water	2540C/4500	none	G	1				✓		
327-120810-TB	Trip Blank	8.10.12		Water		HCl	G	3		✓			252	

Split Samples Accepted? ____ If yes, Accepted By:

Name:

Signature:

Sample #(s):

Sample Number	Aliquot	Grab	Team	Witness Name/Signature	Title

CHAIN OF CUSTODY

Relinquished by:	Date	Time	Received By:
Laurie Peacock	8.10.12	1310	[illegible]
[illegible]	8.10.12	1530	[illegible]
[illegible]	8.10.12	1715	[illegible]
[illegible]	8-15-12	1700	[illegible]
	8-16-12	825	[illegible]

Recommended Sample Disposition:

Final Sample Disposition: Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

6012748

2014264

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bayou Corne ID# 182981

Address: 602 N. 5th St. BR, La 70802

Location: Dow Chemical, Belle Rose (GBO)

Parish: Assumption Team Leader: Laurie Peacock

Permit Number/Inspector's Log Number:

Additional Team Members: Margaret Parker

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Strong effervescence in VOC sample

Sample #/Sampler I.D.	Location ID/Outfall/ (Canister S.N.)	Date	Time	Sample Medium/Type	Methodology	Preservatives	Grab or Comp	# Containers	# Aliquots	VOC	SVOC	Chloride, TDS	Destination* AL, BL, RL, WL	Remarks (Priority, etc.)
327-120810-14	007-59	8.10.12	10:50	Water	8260	HCl	G	3		✓			2012122	3 1BP3U
327-120810-14	007-59	8.10.12	10:50	Water	8270	none	G	3			✓			
327-120810-14	007-59	8.10.12	10:50	Water	9540/4500	none	G	1				✓		

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

Sample Number	Aliquot	Grab	Team	Witness Name/Signature	Title

CHAIN OF CUSTODY

Relinquished by:	Date	Time	Received By:
Laurie Peacock	8-10-12	1310	[illegible]
[illegible]	8-10-12	1530	[illegible]
[illegible]	8-10-12	1715	[illegible] / Pace 220
	8-16-12	825	[illegible] / PASI KS 1.5°c

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab

2 20142694 20-DEQ LAB

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

CHAIN OF CUSTODY

LABORATORY SERVICES

Page ____ of ____

Name: Bayou Corne ID# 182981

Address: 602 N. 5th St. BR, La 70802

Location: Dow Chemical. Belle Rose (GBD)

Parish: Assumption Team Leader: Laurie Peacock

Permit Number/Inspector's Log Number:

Additional Team Members: Margaret Parker

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Strong effervescence in VOC samples

Sample #/Sampler I.D.	Location ID/Outfall/ (Canister S.N.)	Date	Time	Sample Medium/Type	Methodology	Preservatives	Grab or Comp	# Containers	# Aliquots	VOC	SVOC	Chloride, TDS									Destination* AL, BL,RL, WL	Remarks (Priority, etc.)
327-120810-13	007-85	8.10.12	11:30	water	8260	HCl	G	3		✓												
327-120810-13	007-85	8.10.12	11:30	Water	8270	none	G	3			✓										20/01225-1	
327-120810-13	007-85	8.10.12	11:30	water	2540C/4500	none	G	1				✓										
327-120810-TB	Trip Blank	8.10.12		Water		HCl	G	3		✓										252		

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

Sample Number	Aliquot	Grab	Team	Witness Name/Signature	Title

CHAIN OF CUSTODY

Relinquished by:	Date	Time	Received By:
Laurie Peacock	8.10.12	1310	Mary Boyd
Mary Boyd	8.10.12	1520	William J. Lunsford
William J. Lunsford	8.10.12	1715	Kirenborough/Race 20

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2014264

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

CHAIN OF CUSTODY

LABORATORY SERVICES

Page 1 of 1

Name: Bayou Corne ID# 182981

Address: 602 N. 5th St. BR, La 70802

Location: Dow Chemical, Belle Rose (GBO)

Parish: Assumption Team Leader: Laurie Peacock

Permit Number/Inspector's Log Number:

Additional Team Members: Margaret Parker

List any Field Data Sheets that accompany the sample

Office Org # Project Code

Additional Comments: Strong effervescense in VOC samples

Sample #/Sampler I.D.	Location ID/Outfall/ (Canister S.N.)	Date	Time	Sample Medium/Type	Methodology	Preservatives	Grab or Comp	# Containers	# Aliquots	VOC	SVOC	Chloride, TDS	Destination* AL, BL,RL, WL	Remarks (Priority, etc.)
327-120810-14	007-59	8.10.12	10:50	Water	8260	HCl	G	3		✓			20101220	3
327-120810-14	007-59	8.10.12	10:50	Water	8270	none	G	3			✓			
327-120810-14	007-59	8.10.12	10:50	Water	3540C/4500	none	G	1				✓		

Split Samples Accepted? If yes, Accepted By:

Name:

Signature:

Sample #(s):

Sample Number	Aliquot	Grab	Team	Witness Name/Signature	Title

CHAIN OF CUSTODY

Relinquished by:	Date	Time	Received By:
Laurie Peacock	8.10.12	1310	Mary Ford
Mary Ford	8.10.12	1530	William Pursey
William Pursey	8-10-12	1715	Karen Brown / Pace 20

Recommended Sample Disposition:

Final Sample Disposition:

Date:

*AL=Air Lab, BL=Bioassay Lab, RL-Radiation Lab, WL=Water Lab

2 20142694 20-DEQ LAB 2

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Cond

Courier: ☐ Pace Courier ☐ Hackbarth ☐ Fed X ☐ UPS ☐ DHL ☐ USPS ☑ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 4

Type of Ice: ☑Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and initials of person examining contents: LN 8/10/12

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☐Yes	☑No	☐N/A	1
Chain of Custody Present:	☑Yes	☐No	☐N/A	2
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6
Sufficient Volume:	☑Yes	☐No	☐N/A	7
Correct Containers Used:	☑Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☑No	☐N/A	9
Sample Labels match COC:	☑Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☑Yes	☐No	☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☑No	☐N/A	14
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14
Trip Blank Present:	☐Yes	☑No	☐N/A	16
Trip Blank Custody Seals Present	☐Yes	☑No	☐N/A	17
Pace Trip Blank Lot # (if purchased): N/A				18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.06, 28Jul2010 - mod

Pace Analytical Services, In
1000 Riverbend Blvd. Suite I
St. Rose, LA 7008
(504) 469-033

Subcontract Data/Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 20, 2012

Project Manager
Pace Analytical New Orleans
1000 Riverbend Blvd
Suite F
St. Rose, LA 70087

RE: Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

Dear Project Manager:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	20142694 BAYOU CORNE
Pace Project No.:	60127148

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20142251	**327-120810-13**	Water	08/10/12 11:30	08/16/12 08:25
20142253	**327-120810-14**	Water	08/10/12 10:50	08/16/12 08:25

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SAMPLE ANALYTE COUNT

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20142251	**327-120810-13**	EPA 300.0	OL	1
20142253	**327-120810-14**	EPA 300.0	OL	1

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ANALYTICAL RESULTS

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

Sample: 327-120810-13 **Lab ID: 20142251** Collected: 08/10/12 11:30 Received: 08/16/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**3.4**	mg/L	1.0	1		08/17/12 12:17	24959-67-9	

Sample: 327-120810-14 **Lab ID: 20142253** Collected: 08/10/12 10:50 Received: 08/16/12 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Bromide	**2.2**	mg/L	1.0	1		08/17/12 12:35	24959-67-9	

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QUALITY CONTROL DATA

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

QC Batch: WETA/21338 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 20142251, 20142253

METHOD BLANK: 1046427 | Matrix: Water
Associated Lab Samples: 20142251, 20142253

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	08/17/12 09:05	

LABORATORY CONTROL SAMPLE: 1046428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.2	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1046429 1046430

Parameter	Units	201012233 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	4.5	5	5	9.9	9.8	108	106	75-119	1	10	

MATRIX SPIKE SAMPLE: 1046431

Parameter	Units	201012244 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	9.1	5	13.4	85	75-119	

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QUALIFIERS

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20142694 BAYOU CORNE
Pace Project No.: 60127148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20142251	**327-120810-13**	EPA 300.0	WETA/21338		
20142253	**327-120810-14**	EPA 300.0	WETA/21338		

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