GROUNDWATER MONITORING RESULTS
OCTOBER 2012
SANTA ISABEL MUNICIPAL LANDFILL
SANTA ISABEL, P.R.

OCTOBER 2012

Prepared for:

LANDFILL TECHNOLOGIES OF SAN JUAN CORPORATION
PO BOX 13484
SAN JUAN, PR 00908

Land-Tech

Prepared by:

GROUNDWATER & ENVIRONMENTAL SERVICES OF PUERTO RICO, LLC
1418 AVENIDA PONCE DE LEÓN
OFICINA 201
SAN JUAN PUERTO RICO 00907

FINAL REPORT

GES PR

Groundwater & Environmental Services of Puerto Rico, LLC

GROUNDWATER MONITORING RESULTS
OCTOBER 2012
SANTA ISABEL MUNICIPAL LANDFILL
SANTA ISABEL, P.R.

GESPR Project Number: 7100398

OCTOBER 2012

Omar Negrón Cabrera, PG
Senior Project Manager

Isidro M. Perera Armas
PR Operations Manager

November 15, 2012

Efrain Camis
Project Engineer
Landfill Technologies of San Juan Corporation
PO BOX 13484
San Juan, PR 00908

RE: GROUNDWATER MONITORING RESULTS
OCTOBER 2012
SANTA ISABEL MUNICIPAL LANDFILL
SANTA ISABEL, P.R.

INTRODUCTION

This report presents the groundwater monitoring results for the period of October 2012 according to the Groundwater Monitoring Plan approved by the EPA for the Santa Isabel Landfill. The monitoring report is intended to comply with the Non Hazardous Waste Regulation which requires the monitoring of 41 volatile compounds and 15 metals.

Enclosed, **Figure 1** presents the location of the landfill in a United States Geological Survey (USGS) Map and an aerial photograph for visual aid.

The groundwater monitoring effort for October 2012 consisted in the sampling of two down gradient wells (**GWMW-2** and **GWMW-3**). The up gradient groundwater well (GWMW-1) has not been constructed.

FIELD ACTIVITIES

The groundwater monitoring event was conducted in October 17, 2012. GESPR personnel with OSHA HAZWOPPER training and Level D PPE proceeded to collect the field parameters and groundwater samples. Field Data information is provided in **Attachment 1**. After water samples

were collected and preserved they were sent to Pace Analytical for Volatiles and Metal Analysis according to the work plan requirements.

Location of Santa Isabel wells is presented in **Figure 2**.

SAMPLE COLLECTION

Each well was identified, developed and sampled according to the presented work plan. Water samples were collected for Volatile Organic compound analysis following method **8260** and for Metals following method **200.7**. Chain of custody forms are presented in **Attachment 2**.

RESULTS

VOLATILE ORGANICS

Table 1 presents the results for the volatile organic compounds. No volatiles were detected for both (**GWMW-2**. and **GWMW-3**) samples.

METALS

Table 2 presents the metal concentrations for both sampled wells. Metal concentrations above the reporting Limit (RL) were observed, none over the MCL.

Attachment 3 presents the laboratory certified results from Pace Analytical.

RECOMMENDATIONS

The following recommendations are made:

- Continue with the Groundwater sampling event of April 2013 to compare the metal concentrations obtained in this event;
- Installation of the up gradient GWMW-1.

Sincerely,

Groundwater & Environmental Services of PR, LLC.

Omar Negrón Cabrera, P.G.
Senior Project Manager

OMAR NEGRON CABRERA
LICENCIA NUM. 017
PG
GEOLOGO PROFESIONAL LICENCIADO

TABLE 1
SANTA ISABEL LANDFILL
ANALYTICAL RESULTS - ORGANIC VOLATILE COMPOUNDS (MG/L) METHOD 8260
OCTOBER 2012

ANALYSIS PARAMETERS			QA/QC SAMPLES			GROUNDWATER WELL SAMPLES						
						UPGRADIENT WELL		COMPLIANCE WELLS				
NOMBRE	CAS NO.	MCL	TB	FB	EB	GWMW-1	GWMW-1D	GWMW-2	GWMW-2-D	GWMW-3	GWMW-3-D	RL (mg/L)
ACETONE	67-64-1	4	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
BENZENE	71-43-2	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
BROMODICHLOROMETHANE	75-27-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
BROMOFORM	75-25-2	0.7	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
BROMOMETHANE	74-83-9	0.05	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
2-BUTANONE (MEK)	78-93-3		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
CARBON DISULFIDE	75-15-0	4	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CARBON TETRACHLORIDE	56-23-5	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CHLOROBENZENE	108-90-7	0.7	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CHLOROFORM	67-66-3	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CHLOROMETHANE	74-87-3	0.2	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
DIBROMOCHLOROMETHANE	124-48-1		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,2-DIBROMOETHANE (EDB)	106-93-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
DICHLORODIFLUOROMETHANE	75-71-8		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,1-DICHLOROETHANE	75-34-3	0.007	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,2-DICHLOROETHANE	107-06-2	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,1-DICHLOROETHENE	75-35-4	0.007	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CIS-1,3-DICHLOROPROPENE	156-59-2	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TRANS-1,2-DICHLOROETHENE	156-60-5		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,2-DICHLOROPROPANE	78-87-5		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CIS-1,3-DICHLOROPROPENE	10061-01-5		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TRANS-1,3-DICHLOROPROPENE	10061-02-6		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
ETHYLBENZENE	100-41-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
2-HEXANONE	591-78-6		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
ISOPROPYLBENZZENE (CUMENE)	98-82-8		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
METHYL ACETATE	79-20-9		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
METHYLENE CHLORIDE	75-09-2	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
4-METHYL-2-PENTANONE (MIBK)	108-10-1		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
METHLY-TERT-BUTYL ETHER	1634-04-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
STYRENE	100-42-5	0.1	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,1,2,2-TETRACHLOROETHANE	79-34-5		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TETRACHLOROETHENE	127-18-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TOLUENE	108-88-3	1	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,1,1-TRICHLOROETHANE	71-55-6	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
1,1,2-TRICHLOROETHANE	79-00-5	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TRICHLOROETHENE	79-01-6	0.002	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
TRICHLOROFLUOROMETHANE	75-69-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
VINYL CHLORIDE	75-01-4	0.002	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
M&P-XYLENE			ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
O-XYLENE	95-47-6		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005

LEGEND:
OVC: Organic Volatile Compounds
CAS NO: Chemical Abstract Service.
MCL: Maximum Contaminant Levelaccording to EPA mg/L
QA/QC: Quality Assurance/Quality Control.

MG/L: Miligrams per Liter.
Metodo 8260: According to EPA SW-846
RL: Reporting Limit
converted from ug/l to mg/l.

TABLE 2
SRS SANTA ISABEL
ANALITICAL RESULTS (MG/L)
METHOD 200.7 EPA
OCTOBER 2012

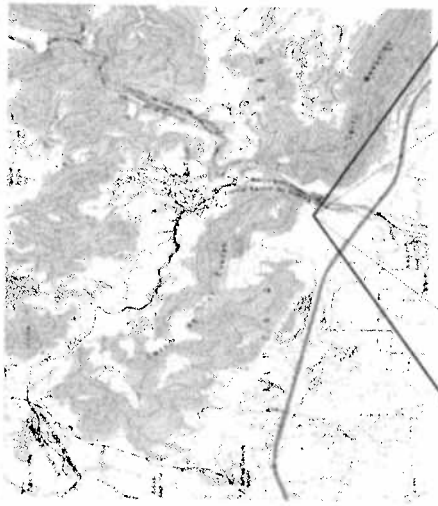
PARAMETER			QA/QC SAMPLES			WELL SAMPLES						
						UPGRADIENT		COMPLIANCE WELLS				
NOMBRE	CAS NO.	MCL	TB	FB	EB	N/A	N/A	GWMW-2-1	GWMW-2-2	GWMW-3-1	GWMW-3-2	RL (mg/L)
ANTIMONY	7440-36-0	0.06	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.06
ARSENIC	7440-38-2	0.05	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
BARIUM	7440-39-3	2	ND	ND	ND	N/A	N/A	ND	ND	0.625	0.718	0.2
BERYLLIUM	7440-41-7	0.004	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CADMIUM	7440-43-9	0.005	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
CHROMIUM	7440-47-3	0.1	ND	ND	ND	N/A	N/A	ND	0.01	0.0126	0.0369	0.01
COBALT	7440-48-4		ND	ND	ND	N/A	N/A	ND	ND	0.025	0.059	0.01
COPPER	7440-50-8	1.3	ND	ND	ND	N/A	N/A	0.016	0.0153	0.04	0.091	0.01
LEAD	7439-92-1	0.015	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.005
NICKEL	7440-02-0		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.04
SELENIUM	7782-49-2	0.05	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.035
SILVER	7440-22-4		ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
TALLIUM	7440-28-0	0.002	ND	ND	ND	N/A	N/A	ND	ND	ND	ND	0.01
VANADIUM	7440-62-2		ND	ND	ND	N/A	N/A	ND	ND	0.147	0.415	0.05
ZINC	7440-66-6	5	ND	ND	ND	N/A	N/A	1.08	1.08	0.0621	0.134	0.02

LEJEND:

OVC: *Organic Volatile Compounds .*
CAS NO: Chemical Abstract Service.
MCL: Maximum Contaminant Level according to EPA mg/L
QA/QC: Quality Assurance/Quality Control.

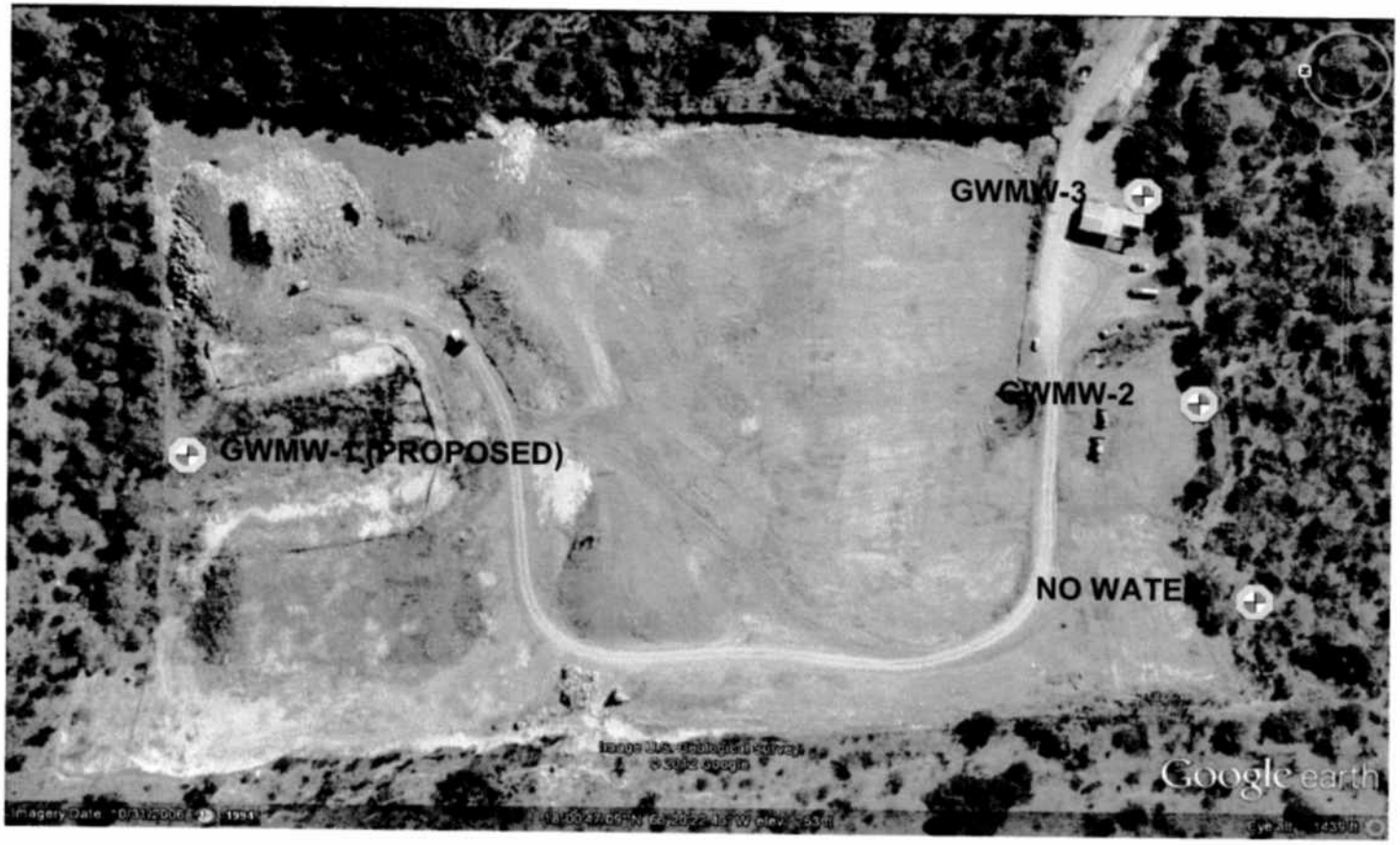
MG/L: Miligrams per Liter.
Method 8260: Volatile Organic Compound Analysis EPA SW-846
RL: Reporting Limit.
converted from ug/l to mg/l.

TOPOGRAPHIC MAP



SANTA ISABEL LANDFILL PHOTO

PREPARED: O.Negrón	SANTA ISABEL LANDFILL MAP AND PHOTO		
REVISED: O.Negrón	LANDFILL GAS TECHNOLOGIES CORP.		
APPROVED: I.Perera	Groundwater & Environmental Services Puerto Rico, LLC 1418 Ave. Ponce De León, Suite 201, San Juan PR 00907		
NORTE	SCALE NTS	DATE: 10/27/2012	FIGURE: 1



LEGEND:

WELLS TO BE SAMPLED

PREPARED: O.Negrón	**LOCATION OF PROPOSED MONITORING WELLS FOR SAMPLING**		
REVISED: O.Negrón	**LANDFILL GAS TECHNOLOGIES CORP.**		
APPROVED: I.Perera	Groundwater & Environmental Services Puerto Rico, LLC 1418 Ave. Ponce De León, Suite 201, San Juan PR 00907		
NORTH	SCALTE NTS	DATE: 10/27/2012	FIGURE: 3

ANEJO 1

Hoja de Datos de Campo

APPENDIX-2: FIELD SAMPLING DATA SHEET - Santa Isabel / LANDFILL GROUNDWATER MONITORING PLAN

SAMPLING EVENT LOCATION:	SRS HORMIGUEROS	EVENT START TIME:	0700 AM/PM

DESCRIPTION OF WELL CONDITION	WELL I.D. AND TYPE		
	COMPLIANCE	COMPLIANCE	COMPLIANCE
	GWMW-2	GWMW-3	
WEATHER	cloudy/rainy	Sunny	
GROUNDWATER PRESENCE DATA			
DEPTH OF WATER BEFORE DEVELOPMENT	47.21	48.33	
DEPTH OF WATER AFTER DEVELOPMENT	59.71	51.55	
WELL CONSTRUCTION DATA			
DEPTH OF WELL	77	70.55	
HEIGHT OF CASING	~~3.1 ft~~	NA	
WELL DIAMETER	2 inch	2 inch	
LENGTH OF WATER COLUMN	29.79	22.22	
VOLUME OF WATER IN COLUMN	4.7	3.5	
VOLUMES TO BE REMOVED FROM WELL	15	10	
WELL DEVELOPMENT DATA			
SURGE TECHNIQUE	BAILER/PUMP	BAILER/PUMP	BAILER/PUMP
SURGE START TIME	0825	0750	
SURGE END TIME	0843	0801	

DEVELOPMENT (3 VOLUMES)									
FIELD PARAMETER DATA	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)	VOL (1)	VOL (2)	VOL (3)
GALLONS	5	5	5	3.5	3.5	3			
WATER LEVEL (FT)	51.41	60.50	67.30	52.48	55.35	59.40			
TIME (AM OR PM)	0830	0835	0840	0753	0756	0759			
TEMP (°C)	28.93	29.12	29.24	28.78	28.83	28.92			
SPECIFIC CONDUCTANCE(mS/cm)	3844	3734	2004	4154	3995	3985			
PH	7.07	6.70	6.64	6.39	6.45	6.42			
TURBIDITY (ntu)	—	—	—	—	—	—			
DO (%)	10.2	10.7	9.2	7.4	5.1	3.5			
TDS(MG/L)	—	—	—	—	—	—			
SALINITY	—	—	—	—	—	—			
COLOR	light brown	light brown	light brown	light brown	light brown	light brown			
ODOR	none	none	none	none	organic	organic			
SAMPLE TIME	MW-2-1 (0847) / MW-2-2 (0850)			MW-3-1 (0804) / MW-3-2 (0807)					
COMMENTS									
EQUIPMENT									

LOGGED IN THE FIELD BY: JB	END OF EVENT AT (TIME): 0920 AM/pm	SIGNATURE	[signature]

ANEJO 2

Cadenas de Custodia

Pace Analytical®
www.pacelabs.com

The

Page: 1 of 1

1571071

Section A
Required Client Information:

Company: GESPR
Address: 1418 Ave. Ponce de Leon Suite 201 San Juan, P.R.
Email To: Onegron@gesonline.com
Phone: 787-721-1418 Fax: NA
Requested Due Date/TAT: STD

Section B
Required Project Information:

Report To: Omar Negron / GESPR
Copy To: Efrain Chinis
Purchase Order No.:
Project Name: SRS Santa Isabel
Project Number: 7100398

Invoice Information:

Attention: Omar Negron / GESPR
Company Name: GESPR
Address:
Pace Quote Reference:
Pace Project Manager: Juan Redonto
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ✓ OTHER EQB

Site Location: Santa Isabel
STATE: P.R.

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOC 8260	Analysis Test (Y/N) Metals 200.7	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-101712	WT	G			10/7/12	—	NA	2				X					X		N	20145540
2	EB-101712	WT	G			10/7/12	0730	NA	3			X	X					X	X	N	
3	GWMW-3-1	WT	G			10/7/12	0804	NA	3			X	X					X	X	N	
4	GWMW-3-2	WT	G			10/7/12	0807	NA	3			X	X					X	X	N	
5	FB-101712	WT	G			10/7/12	0814	NA	3			X	X					X	X	N	
6	GWMW-2-1	WT	G			10/7/12	0847	NA	3			X	X					X	X	N	
7	GWMW-2-2	WT	G			10/7/12	0850	NA	3			X	X					X	X	N	
8																					
9																					
10																					
11																					
12																					

JB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	José Bonilla / GESPR	10/7/12	11:00	Pablo Juan-Pere	10/7/12	11:00	4°C	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: José Bonilla / GESPR
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/7/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ANEJO 3

Resultados de Laboratorio

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

October 19, 2012

Isidro Perera
GES PR
1418 Ave. Ponce De Leon Ave
Suite 201
San Juan, PR 00907-4000

RE: Project 20145546
Project ID: SRS SANTA ISABEL 7100398

Dear Isidro Perera:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 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,

Juan Redondo
juan.redondo@pacelabs.com

REPORT OF LABORATORY ANALYSIS

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

Cover No Results 10/19/2012 21:0

Laboratory Certifications

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

Project: 20145546

Client: GES PR

Project ID: SRS SANTA ISABEL 7100398

Washington Department of Ecology C2078
Oregon Environmental Laboratory Accreditation - LA200001
U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119
Pennsylvania 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

10/19/2012 21:03:21

Sample Cross Reference

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

Project: 20145546

Client: GES PR

Project ID: SRS SANTA ISABEL 7100398

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
EB-101712	201032729	Water	17-Oct-12 07:30	17-Oct-12 11:00
GWMW-3-1	201032730	Water	17-Oct-12 08:04	17-Oct-12 11:00
GWMW-3-2	201032732	Water	17-Oct-12 08:07	17-Oct-12 11:00
GWMW-2-1	201032734	Water	17-Oct-12 08:47	17-Oct-12 11:00
GWMW-2-2	201032746	Water	17-Oct-12 08:50	17-Oct-12 11:00
FB-101712	201032747	Water	17-Oct-12 08:14	17-Oct-12 11:00
TB-101712	201032749	Water	17-Oct-12 00:00	17-Oct-12 11:00

Project Narrative

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

Project: 20145546

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:

All MS/MSD recoveries or duplicate RPDs were within QC limits.

Surrogates:

All surrogate recoveries were within QC limits.

QC Cross Reference

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

Project: 20145546

Analytical Method	Batch	Sample used for QC
EPA 200.7	195171	Batch sample from another client
EPA 8260	195053	Batch sample from another client

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.

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

Definitions/Qualifiers

Project: 20145546

Value	Description
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.

Sample Results

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

Client: GES PR

Client ID: EB-101712
Project: 20145546
Project ID: SRS SANTA ISABEL 7100398
Site: None
Lab ID: 201032729
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 195053
Method: EPA 8260
GCMS VOAs Water
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 16:32 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 16:32 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 16:32 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 16:32 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 16:32 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 16:32 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 16:32 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 16:32 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 16:32 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 16:32 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 16:32 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 16:32 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 16:32 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 16:32 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 16:32 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 16:32 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 16:32 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 16:32 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 16:32 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 16:32 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 16:32 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 16:32 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 16:32 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 16:32 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 16:32 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 16:32 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 16:32 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 16:32 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 16:32 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 16:32 RMP

Protocol 10/19/2012 21:04:02

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.

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118

Sample Results

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

Client: GES PR

Client ID: EB-101712
Project: 20145546
Project ID: SRS SANTA ISABEL 7100398
Site: None
Lab ID: 201032729
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 195053
Method: EPA 8260
GCMS VOAs Water
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 16:32 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 16:32 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 16:32 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 16:32 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 16:32 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 16:32 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 16:32 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO

Protocol 10/19/2012 21:04:02

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: GES PR

Client ID: EB-101712
Project: 20145546
Project ID: SRS SANTA ISABEL 7100398
Site: None
Lab ID: 201032729
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 195171
Method: EPA 200.7
Metals, ICP
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:17 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:17 TLB1
7440-39-3	Barium	1	ND		200.		19-Oct-12 14:17 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:17 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:17 TLB1
7440-47-3	Chromium	1	ND		10.0		19-Oct-12 14:17 TLB1
7440-48-4	Cobalt	1	ND		10.0		19-Oct-12 14:17 TLB1
7440-50-8	Copper	1	ND		10.0		19-Oct-12 14:17 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:17 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:17 TLB1
7782-49-2	Selenium	1	ND		35.0		19-Oct-12 14:17 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:17 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:17 TLB1
7440-62-2	Vanadium	1	ND		50.0		19-Oct-12 14:17 TLB1
7440-66-6	Zinc	1	ND		20.0		19-Oct-12 14:17 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO AUTORIZADO

Protocol 10/19/2012 21:04:02

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: GES PR

Client ID: GWMW-3-1
Project: 20145546
Project ID: SRS SANTA ISABEL 7100398
Site: None
Lab ID: 201032730
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 195053
Method: EPA 8260
GCMS VOAs Water
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 16:52 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 16:52 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 16:52 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 16:52 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 16:52 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 16:52 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 16:52 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 16:52 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 16:52 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 16:52 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 16:52 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 16:52 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 16:52 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 16:52 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 16:52 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 16:52 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 16:52 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 16:52 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 16:52 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 16:52 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 16:52 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 16:52 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 16:52 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 16:52 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 16:52 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 16:52 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 16:52 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 16:52 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 16:52 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 16:52 RMP

Protocol 10/19/2012 21:04:02

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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: GES PR

Client ID: GWMW-3-1
Project: 20145546
Project ID: SRS SANTA ISABEL 7100398
Site: None
Lab ID: 201032730
Matrix: Water
% Moisture: n/a
Description: None
Prep Level: Water
Batch: 195053
Method: EPA 8260
GCMS VOAs Water
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 16:52 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 16:52 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 16:52 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 16:52 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 16:52 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 16:52 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 16:52 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
María de los A. Negrón #518

Protocol 10/19/2012 21:04:03

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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.

Sample Results

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

Client: GES PR

Client ID: GWMW-3-1
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032730
Description: None
Method: EPA 200.7
Metals, ICP

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195171

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:21 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:21 TLB1
7440-39-3	Barium	1	625.		200.		19-Oct-12 14:21 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:21 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:21 TLB1
7440-47-3	Chromium	1	12.6		10.0		19-Oct-12 14:21 TLB1
7440-48-4	Cobalt	1	25.4		10.0		19-Oct-12 14:21 TLB1
7440-50-8	Copper	1	40.7		10.0		19-Oct-12 14:21 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:21 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:21 TLB1
7782-49-2	Selenium	1	ND		35.0		19-Oct-12 14:21 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:21 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:21 TLB1
7440-62-2	Vanadium	1	147.		50.0		19-Oct-12 14:21 TLB1
7440-66-6	Zinc	1	62.1		20.0		19-Oct-12 14:21 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO
María de los A. Negrón
#5018

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

Protocol 10/19/2012 21:04:03
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: GES PR

Client ID: GWMW-3-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032732
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 17:12 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 17:12 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 17:12 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 17:12 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 17:12 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 17:12 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 17:12 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 17:12 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 17:12 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 17:12 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 17:12 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 17:12 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 17:12 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 17:12 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 17:12 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 17:12 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:12 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:12 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 17:12 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:12 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:12 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 17:12 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 17:12 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 17:12 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 17:12 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 17:12 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 17:12 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 17:12 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 17:12 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 17:12 RMP

ESTADO LIBRE ASOCIADO DE PUERTO RICO
María de los A. Negrón #5118
QUIMICO

Protocol 10/19/2012 21:04:03

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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: GES PR

Client ID: GWMW-3-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032732
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 17:12 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 17:12 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 17:12 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 17:12 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 17:12 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 17:12 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 17:12 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO
#5018

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

Protocol 10/19/2012 21:04:03
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: GES PR

Client ID: GWMW-3-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032732
Description: None
Method: EPA 200.7
Metals, ICP

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195171

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:31 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:31 TLB1
7440-39-3	Barium	1	718.		200.		19-Oct-12 14:31 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:31 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:31 TLB1
7440-47-3	Chromium	1	36.9		10.0		19-Oct-12 14:31 TLB1
7440-48-4	Cobalt	1	59.0		10.0		19-Oct-12 14:31 TLB1
7440-50-8	Copper	1	91.1		10.0		19-Oct-12 14:31 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:31 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:31 TLB1
7782-49-2	Selenium	1	38.7		35.0		19-Oct-12 14:31 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:31 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:31 TLB1
7440-62-2	Vanadium	1	415.		50.0		19-Oct-12 14:31 TLB1
7440-66-6	Zinc	1	134.		20.0		19-Oct-12 14:31 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón
#5118
QUIMICO LICENCIADO

Protocol 10/19/2012 21:04:03

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: GES PR

Client ID: GWMW-2-1
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032734
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 195053

Collected: 17-Oct-12 **Received:** 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 17:32 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 17:32 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 17:32 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 17:32 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 17:32 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 17:32 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 17:32 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 17:32 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 17:32 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 17:32 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 17:32 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 17:32 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 17:32 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 17:32 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 17:32 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 17:32 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:32 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:32 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 17:32 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:32 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:32 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 17:32 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 17:32 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 17:32 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 17:32 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 17:32 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 17:32 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 17:32 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 17:32 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 17:32 RMP

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
María de los A. Negrón #5418

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

Protocol 10/19/2012 21:04:03
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: GES PR

Client ID: GWMW-2-1
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032734
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 17:32 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 17:32 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 17:32 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 17:32 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 17:32 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 17:32 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 17:32 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO LICENCIADO
María de los A. Negrón
#119

Protocol 10/19/2012 21:04:03

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: GES PR

Client ID: GWMW-2-1
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032734
Description: None
Method: EPA 200.7
Metals, ICP

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195171

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:35 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:35 TLB1
7440-39-3	Barium	1	ND		200.		19-Oct-12 14:35 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:35 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:35 TLB1
7440-47-3	Chromium	1	ND		10.0		19-Oct-12 14:35 TLB1
7440-48-4	Cobalt	1	ND		10.0		19-Oct-12 14:35 TLB1
7440-50-8	Copper	1	16.0		10.0		19-Oct-12 14:35 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:35 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:35 TLB1
7782-49-2	Selenium	1	ND		35.0		19-Oct-12 14:35 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:35 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:35 TLB1
7440-62-2	Vanadium	1	ND		50.0		19-Oct-12 14:35 TLB1
7440-66-6	Zinc	1	1080		20.0		19-Oct-12 14:35 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de L. A. Negrón #5218
QUIMICO LICENCIADO

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Protocol 10/19/2012 21:04:03
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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.

Sample Results

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

Client: GES PR

Client ID: GWMW-2-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032746
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 17:52 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 17:52 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 17:52 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 17:52 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 17:52 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 17:52 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 17:52 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 17:52 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 17:52 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 17:52 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 17:52 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 17:52 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 17:52 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 17:52 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 17:52 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 17:52 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:52 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 17:52 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 17:52 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:52 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 17:52 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 17:52 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 17:52 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 17:52 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 17:52 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 17:52 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 17:52 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 17:52 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 17:52 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 17:52 RMP

Protocol 10/19/2012 21:04:03

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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.

Sample Results

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

Client: GES PR

Client ID: GWMW-2-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032746
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 17:52 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 17:52 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 17:52 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 17:52 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 17:52 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 17:52 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 17:52 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
María del C. A. Negrón #6118
QUÍMICO LICENCIADO

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Protocol 10/19/2012 21:04:03
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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: GES PR

Client ID: GWMW-2-2
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032746
Description: None
Method: EPA 200.7
Metals, ICP

Project: 20145546
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 195171

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:39 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:39 TLB1
7440-39-3	Barium	1	ND		200.		19-Oct-12 14:39 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:39 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:39 TLB1
7440-47-3	Chromium	1	ND		10.0		19-Oct-12 14:39 TLB1
7440-48-4	Cobalt	1	ND		10.0		19-Oct-12 14:39 TLB1
7440-50-8	Copper	1	15.3		10.0		19-Oct-12 14:39 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:39 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:39 TLB1
7782-49-2	Selenium	1	ND		35.0		19-Oct-12 14:39 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:39 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:39 TLB1
7440-62-2	Vanadium	1	ND		50.0		19-Oct-12 14:39 TLB1
7440-66-6	Zinc	1	1080		20.0		19-Oct-12 14:39 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO
María Ríos A. Negrón
#5118

Protocol 10/19/2012 21:04:03

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: GES PR

Client ID: FB-101712
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032747
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water **% Moisture:** n/a
Prep Level: Water **Batch:** 195053

Collected: 17-Oct-12 **Received:** 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 18:12 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 18:12 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 18:12 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 18:12 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 18:12 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 18:12 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 18:12 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 18:12 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 18:12 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 18:12 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 18:12 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 18:12 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 18:12 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 18:12 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 18:12 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 18:12 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 18:12 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 18:12 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 18:12 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 18:12 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 18:12 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 18:12 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 18:12 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 18:12 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 18:12 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 18:12 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 18:12 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 18:12 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 18:12 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 18:12 RMP

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.

Printed: 10/17/2012 21:04:03

Sample Results

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

Client: GES PR

Client ID: FB-101712
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032747
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
Prep Level: Water
% Moisture: n/a
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 18:12 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 18:12 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 18:12 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 18:12 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 18:12 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 18:12 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 18:12 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118
QUIMICO LICENCIADO

Protocol 10/19/2012 21:04:03

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: GES PR

Client ID: FB-101712
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032747
Description: None
Method: EPA 200.7
Metals, ICP

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195171

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 19-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
7440-36-0	Antimony	1	ND		60.0		19-Oct-12 14:42 TLB1
7440-38-2	Arsenic	1	ND		10.0		19-Oct-12 14:42 TLB1
7440-39-3	Barium	1	ND		200.		19-Oct-12 14:42 TLB1
7440-41-7	Beryllium	1	ND		5.00		19-Oct-12 14:42 TLB1
7440-43-9	Cadmium	1	ND		5.00		19-Oct-12 14:42 TLB1
7440-47-3	Chromium	1	ND		10.0		19-Oct-12 14:42 TLB1
7440-48-4	Cobalt	1	ND		10.0		19-Oct-12 14:42 TLB1
7440-50-8	Copper	1	ND		10.0		19-Oct-12 14:42 TLB1
7439-92-1	Lead	1	ND		5.00		19-Oct-12 14:42 TLB1
7440-02-0	Nickel	1	ND		40.0		19-Oct-12 14:42 TLB1
7782-49-2	Selenium	1	ND		35.0		19-Oct-12 14:42 TLB1
7440-22-4	Silver	1	ND		10.0		19-Oct-12 14:42 TLB1
7440-28-0	Thallium	1	ND		10.0		19-Oct-12 14:42 TLB1
7440-62-2	Vanadium	1	ND		50.0		19-Oct-12 14:42 TLB1
7440-66-6	Zinc	1	ND		20.0		19-Oct-12 14:42 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Nicolás A. Negrón #5118

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

Protocol 10/19/2012 21:04:03
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: GES PR

Client ID: TB-101712
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032749
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053
Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
67-64-1	Acetone	1	ND		10.0		18-Oct-12 18:32 RMP
71-43-2	Benzene	1	ND		5.00		18-Oct-12 18:32 RMP
75-27-4	Bromodichloromethane	1	ND		5.00		18-Oct-12 18:32 RMP
75-25-2	Bromoform	1	ND		5.00		18-Oct-12 18:32 RMP
74-83-9	Bromomethane	1	ND		5.00		18-Oct-12 18:32 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0		18-Oct-12 18:32 RMP
75-15-0	Carbon disulfide	1	ND		5.00		18-Oct-12 18:32 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00		18-Oct-12 18:32 RMP
108-90-7	Chlorobenzene	1	ND		5.00		18-Oct-12 18:32 RMP
75-00-3	Chloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
67-66-3	Chloroform	1	ND		5.00		18-Oct-12 18:32 RMP
74-87-3	Chloromethane	1	ND		5.00		18-Oct-12 18:32 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00		18-Oct-12 18:32 RMP
124-48-1	Dibromochloromethane	1	ND		5.00		18-Oct-12 18:32 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00		18-Oct-12 18:32 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00		18-Oct-12 18:32 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00		18-Oct-12 18:32 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 18:32 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00		18-Oct-12 18:32 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00		18-Oct-12 18:32 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 18:32 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00		18-Oct-12 18:32 RMP
100-41-4	Ethylbenzene	1	ND		5.00		18-Oct-12 18:32 RMP
591-78-6	2-Hexanone	1	ND		10.0		18-Oct-12 18:32 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00		18-Oct-12 18:32 RMP
79-20-9	Methyl acetate	1	ND		10.0		18-Oct-12 18:32 RMP
75-09-2	Methylene chloride	1	ND		5.00		18-Oct-12 18:32 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0		18-Oct-12 18:32 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00		18-Oct-12 18:32 RMP
100-42-5	Styrene	1	ND		5.00		18-Oct-12 18:32 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
127-18-4	Tetrachloroethene	1	ND		5.00		18-Oct-12 18:32 RMP

Protocol 10/19/2012 21:04:03

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.
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ESTADO LIBRE ASOCIADO DE PUERTO RICO
Miguel de los A. Negrón #5118
QUIMICO LICENCIADO

Sample Results

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

Client: GES PR

Client ID: TB-101712
Project ID: SRS SANTA ISABEL 7100398
Lab ID: 201032749
Description: None
Method: EPA 8260
GCMS VOAs Water

Project: 20145546
Site: None
Matrix: Water
% Moisture: n/a
Prep Level: Water
Batch: 195053

Collected: 17-Oct-12
Received: 17-Oct-12
Prepared: 18-Oct-12

Units: ug/L

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
108-88-3	Toluene	1	ND		5.00		18-Oct-12 18:32 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00		18-Oct-12 18:32 RMP
79-01-6	Trichloroethene	1	ND		5.00		18-Oct-12 18:32 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00		18-Oct-12 18:32 RMP
75-01-4	Vinyl chloride	1	ND		5.00		18-Oct-12 18:32 RMP
	m&p-Xylene	1	ND		5.00		18-Oct-12 18:32 RMP
95-47-6	o-Xylene	1	ND		5.00		18-Oct-12 18:32 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Notaría
Carlos A. Negrón
A 1482348
QUIMICO LICENCIADO

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

Protocol 10/19/2012 21:04:03
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.

Surrogate Recovery

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

Batch: 195053 **Project:** 20145546

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
201033062	195053 BLANK 1		91	103	96					
201033063	195053 LCS 1		78	86	87					
201032729	EB-101712		94	94	94					
201032747	FB-101712		89	89	91					
201032734	GWMW-2-1		93	95	97					
201032746	GWMW-2-2		94	96	97					
201032730	GWMW-3-1		90	94	94					
201032732	GWMW-3-2		96	98	97					
201033064	OUTFALL 302 MS 1		84	87	89					
201033065	OUTFALL 302 MSD 1		84	84	87					
201032749	TB-101712		93	98	95					
	QC limits:		68-124	72-126	79-119					

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

ESTADO LIBRE ASOCIADO DE PUERTO RICO
QUIMICO CERTIFICADO
Héctor A. Negrón
#5118

Surrogates 10/19/2012 21:04:04

* 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: 195053 **Project:** 20145546 **LCS:** 20103306 18-Oct-12 16:13

Method: Water GC/MS Volatile Organics **MS:** 20103306 18-Oct-12 19:31

Units: ug/L **MSD:** 20103306 18-Oct-12 19:51

Original for MS: Batch Sample 201032785

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	55.1	110	50.0	8.66	60.6	57.3	104	97	6	10-195	10-204	20	
Benzene	50.0	55.5	111	50.0		53.8	53.5	108	107	1	66-132	58-140	20	
Bromodichloromethane	50.0	54.4	109	50.0		52.5	50.9	105	102	3	67-132	63-137	20	
Bromoform	50.0	56.7	113	50.0		56.3	54.0	113	108	4	53-152	49-156	20	
Bromomethane	50.0	43.9	88	50.0		43.5	43.7	87	87	0	47-150	43-152	20	
2-Butanone (MEK)	50.0	60.7	121	50.0		53.9	50.7	108	101	6	16-167	11-180	20	
Carbon disulfide	50.0	59.8	120	50.0		58.5	58.0	117	116	1	18-173	10-184	20	
Carbon tetrachloride	50.0	55.5	111	50.0		54.8	54.1	110	108	1	55-143	50-148	20	
Chlorobenzene	50.0	57.3	115	50.0		58.2	55.3	116	111	5	71-131	69-136	20	
Chloroethane	50.0	46.0	92	50.0		45.6	45.0	91	90	1	31-192	20-193	20	
Chloroform	50.0	55.3	111	50.0	2.01	55.1	53.7	106	103	3	69-134	65-140	20	
Chloromethane	50.0	29.6	59	50.0		26.8	28.2	54	56	5	29-157	27-160	20	
1,2-Dibromo-3-chloropropane	50.0	60.0	120	50.0		56.5	54.1	113	108	4	37-151	34-159	20	
Dibromochloromethane	50.0	53.5	107	50.0		54.8	51.2	110	102	7	61-138	59-143	20	
1,2-Dibromoethane (EDB)	50.0	57.1	114	50.0		53.9	53.3	108	107	1	60-145	59-149	20	
Dichlorodifluoromethane	50.0	16.7	34	50.0		17.0	17.5	34	35	3	10-179	10-173	20	
1,1-Dichloroethane	50.0	59.7	119	50.0		58.1	55.8	116	112	4	62-137	59-143	20	
1,2-Dichloroethane	50.0	56.5	113	50.0		56.6	52.7	113	105	7	59-145	58-151	20	
1,1-Dichloroethene	50.0	57.9	116	50.0		57.0	57.2	114	115	0	46-156	32-169	20	
cis-1,2-Dichloroethene	50.0	57.2	114	50.0		55.1	54.5	110	109	1	64-131	61-138	20	
trans-1,2-Dichloroethene	50.0	57.3	115	50.0		55.5	55.3	111	111	0	55-138	51-145	20	
1,2-Dichloropropane	50.0	63.7	127	50.0		60.6	59.2	121	118	2	65-130	63-134	20	
cis-1,3-Dichloropropene	50.0	52.3	105	50.0		48.2	47.2	97	94	2	63-137	59-139	20	
trans-1,3-Dichloropropene	50.0	59.3	119	50.0		56.1	54.1	112	108	4	61-143	57-149	20	
Ethylbenzene	50.0	57.2	114	50.0		57.4	55.2	115	110	4	71-130	65-136	20	
2-Hexanone	50.0	52.5	105	50.0		46.0	45.0	92	90	2	25-156	21-165	20	
Isopropylbenzene (Cumene)	50.0	52.5	105	50.0		52.5	51.9	105	104	1	58-142	55-146	20	
Methylene chloride	50.0	62.9	126	50.0		58.7	58.6	117	117	0	39-172	33-167	20	
4-Methyl-2-pentanone (MIBK	50.0	53.9	108	50.0		49.2	48.1	98	96	2	43-159	39-167	20	
Methyl-tert-butyl ether	50.0	53.4	107	50.0		48.7	49.6	98	99	2	49-157	45-168	20	
Styrene	50.0	58.0	116	50.0		58.4	55.0	117	110	6	72-134	62-141	20	
1,1,2,2-Tetrachloroethane	50.0	57.4	115	50.0		54.5	52.5	109	105	4	40-157	35-164	20	
Tetrachloroethene	50.0	53.0	106	50.0		55.8	51.2	112	102	9	55-156	44-162	20	
Toluene	50.0	56.3	113	50.0		55.0	53.4	110	107	3	68-131	60-137	20	
1,1,1-Trichloroethane	50.0	54.7	109	50.0		54.2	52.0	108	104	4	63-133	58-139	20	
1,1,2-Trichloroethane	50.0	60.3	121	50.0		59.4	56.1	119	112	6	64-135	61-140	20	
Trichloroethene	50.0	51.7	103	50.0	1.31	53.3	52.1	104	102	2	68-134	58-145	20	
Trichlorofluoromethane	50.0	64.8	130	50.0		65.5	62.1	131	124	5	39-185	15-192	20	
Vinyl chloride	50.0	36.2	72	50.0		36.3	38.8	73	78	7	40-152	32-157	20	
m&p-Xylene	100.	115.	115	100.		116.	109.	116	109	6	68-134	62-139	20	
o-Xylene	50.0	54.8	110	50.0		56.4	52.8	113	106	6	67-131	61-137	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.

QC Protocol 10/19/2012 21:04:06

Quality Control

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

Batch: 195053
Method: Water GC/MS Volatile Organics

Project: 20145546
Units: ug/L

LCS: 20103306 18-Oct-12 16:13
MS: 20103306 18-Oct-12 19:31
MSD: 20103306 18-Oct-12 19:51
Original for MS: Batch Sample 201032785

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

41 compound(s) reported

QC Protocol 10/19/2012 21:04:06

* 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: 195171
Method: Water ICP Metals

Project: 20145546
Units: ug/L

LCS: 20103346 19-Oct-12 10:38
MS: 20103346 19-Oct-12 10:45
MSD: 20103346 19-Oct-12 10:49
Original for MS: Batch Sample 201033383

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
Antimony	1000	1030	103	1000	2.77	1060	1020	106	102	4	85-115	70-130	20	
Arsenic	1000	1040	104	1000	4.58	1090	1060	109	105	3	85-115	70-130	20	
Barium	1000	989.	99	1000	43.9	1050	990.	100	95	6	85-115	70-130	20	
Beryllium	1000	1010	101	1000		1040	985.	104	99	5	85-115	70-130	20	
Cadmium	1000	1060	106	1000		1060	1020	106	102	4	85-115	70-130	20	
Chromium	1000	1010	101	1000		1050	1010	105	101	4	85-115	70-130	20	
Cobalt	1000	1000	100	1000		1010	991.	101	99	2	85-115	70-130	20	
Copper	1000	982.	98	1000	6.56	997.	951.	99	94	5	85-115	70-130	20	
Lead	1000	1070	107	1000		1060	1020	106	102	4	85-115	70-130	20	
Nickel	1000	1070	107	1000	2.27	1070	1050	107	104	3	85-115	70-130	20	
Selenium	1000	1020	102	1000		1070	1060	106	105	1	85-115	70-130	20	
Silver	500.	529.	106	500.		541.	522.	108	104	3	85-115	70-130	20	
Thallium	1000	1060	106	1000		1040	1010	104	101	3	85-115	70-130	20	
Vanadium	1000	1010	101	1000		1040	1001	104	100	4	85-115	70-130	20	
Zinc	1000	1070	107	1000	12.5	1090	1060	108	105	3	85-115	70-130	20	

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118
QUIMICO LICENCIADO

* 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 10/19/2012 21:04:06

Blank Results

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

Blank ID: 195053 BLANK 1 **Project:** 20145546

Lab ID: 201033062

Prep Level: Water **Batch:** 195053

Method: Water GC/MS Volatile Organics

Prepared: 18-Oct-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
67-64-1	Acetone	1	ND		10.0	18-Oct-12 15:53 RMP
71-43-2	Benzene	1	ND		5.00	18-Oct-12 15:53 RMP
75-27-4	Bromodichloromethane	1	ND		5.00	18-Oct-12 15:53 RMP
75-25-2	Bromoform	1	ND		5.00	18-Oct-12 15:53 RMP
74-83-9	Bromomethane	1	ND		5.00	18-Oct-12 15:53 RMP
78-93-3	2-Butanone (MEK)	1	ND		10.0	18-Oct-12 15:53 RMP
75-15-0	Carbon disulfide	1	ND		5.00	18-Oct-12 15:53 RMP
56-23-5	Carbon tetrachloride	1	ND		5.00	18-Oct-12 15:53 RMP
108-90-7	Chlorobenzene	1	ND		5.00	18-Oct-12 15:53 RMP
75-00-3	Chloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
67-66-3	Chloroform	1	ND		5.00	18-Oct-12 15:53 RMP
74-87-3	Chloromethane	1	ND		5.00	18-Oct-12 15:53 RMP
96-12-8	1,2-Dibromo-3-chloropropane	1	ND		5.00	18-Oct-12 15:53 RMP
124-48-1	Dibromochloromethane	1	ND		5.00	18-Oct-12 15:53 RMP
106-93-4	1,2-Dibromoethane (EDB)	1	ND		5.00	18-Oct-12 15:53 RMP
75-71-8	Dichlorodifluoromethane	1	ND		5.00	18-Oct-12 15:53 RMP
75-34-3	1,1-Dichloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
107-06-2	1,2-Dichloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
75-35-4	1,1-Dichloroethene	1	ND		5.00	18-Oct-12 15:53 RMP
156-59-2	cis-1,2-Dichloroethene	1	ND		5.00	18-Oct-12 15:53 RMP
156-60-5	trans-1,2-Dichloroethene	1	ND		5.00	18-Oct-12 15:53 RMP
78-87-5	1,2-Dichloropropane	1	ND		5.00	18-Oct-12 15:53 RMP
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00	18-Oct-12 15:53 RMP
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00	18-Oct-12 15:53 RMP
100-41-4	Ethylbenzene	1	ND		5.00	18-Oct-12 15:53 RMP
591-78-6	2-Hexanone	1	ND		10.0	18-Oct-12 15:53 RMP
98-82-8	Isopropylbenzene (Cumene)	1	ND		5.00	18-Oct-12 15:53 RMP
79-20-9	Methyl acetate	1	ND		10.0	18-Oct-12 15:53 RMP
75-09-2	Methylene chloride	1	ND		5.00	18-Oct-12 15:53 RMP
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0	18-Oct-12 15:53 RMP
1634-04-4	Methyl-tert-butyl ether	1	ND		5.00	18-Oct-12 15:53 RMP
100-42-5	Styrene	1	ND		5.00	18-Oct-12 15:53 RMP
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
127-18-4	Tetrachloroethene	1	ND		5.00	18-Oct-12 15:53 RMP

Protocol Blank 10/19/2012 21:04:0

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.

Blank Results

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

Blank ID: 195053 BLANK 1

Project: 20145546

Lab ID: 201033062

Prep Level: Water

Batch: 195053

Method: Water GC/MS Volatile Organics

Prepared: 18-Oct-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
108-88-3	Toluene	1	ND		5.00	18-Oct-12 15:53 RMP
71-55-6	1,1,1-Trichloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
79-00-5	1,1,2-Trichloroethane	1	ND		5.00	18-Oct-12 15:53 RMP
79-01-6	Trichloroethene	1	ND		5.00	18-Oct-12 15:53 RMP
75-69-4	Trichlorofluoromethane	1	ND		5.00	18-Oct-12 15:53 RMP
75-01-4	Vinyl chloride	1	ND		5.00	18-Oct-12 15:53 RMP
	m&p-Xylene	1	ND		5.00	18-Oct-12 15:53 RMP
95-47-6	o-Xylene	1	ND		5.00	18-Oct-12 15:53 RMP

42 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118
QUIMICO CERTIFICADO

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

Protocol Blank 10/19/2012 21:04:0

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.

Blank Results

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

Blank ID: 195171 BLANK 1 **Project:** 20145546

Lab ID: 201033459

Prep Level: Water **Batch:** 195171

Method: Water ICP Metals

Prepared: 19-Oct-12

Units: ug/L

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
7440-36-0	Antimony	1	ND		60.0	19-Oct-12 10:35 TLB1
7440-38-2	Arsenic	1	ND		10.0	19-Oct-12 10:35 TLB1
7440-39-3	Barium	1	ND		200.	19-Oct-12 10:35 TLB1
7440-41-7	Beryllium	1	ND		5.00	19-Oct-12 10:35 TLB1
7440-43-9	Cadmium	1	ND		5.00	19-Oct-12 10:35 TLB1
7440-47-3	Chromium	1	ND		10.0	19-Oct-12 10:35 TLB1
7440-48-4	Cobalt	1	ND		10.0	19-Oct-12 10:35 TLB1
7440-50-8	Copper	1	ND		10.0	19-Oct-12 10:35 TLB1
7439-92-1	Lead	1	ND		5.00	19-Oct-12 10:35 TLB1
7440-02-0	Nickel	1	ND		40.0	19-Oct-12 10:35 TLB1
7782-49-2	Selenium	1	ND		35.0	19-Oct-12 10:35 TLB1
7440-22-4	Silver	1	ND		10.0	19-Oct-12 10:35 TLB1
7440-28-0	Thallium	1	ND		10.0	19-Oct-12 10:35 TLB1
7440-62-2	Vanadium	1	ND		50.0	19-Oct-12 10:35 TLB1
7440-66-6	Zinc	1	ND		20.0	19-Oct-12 10:35 TLB1

15 compound(s) reported

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Maria de los A. Negrón #5118
QUIMICO LICENCIADO

Protocol Blank 10/19/2012 21:04:0

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.

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

Sample Preparation Forms

Sample Preparation MSV

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

Method: GCMS VOAs Full List Water BLK **Project:** 20145546

GCMS VOAs Full List Water BLK **Batch:** 195053

	Type	Lab ID	Client ID	Matrix	Analyst	Date	Intial Sample Size	Final Sample Size	Moisture
1	BLANK	201033062	195053 BLANK 1		RMP	10/18/2012	ND	ND	
2	LCS	201033063	195053 LCS 1		RMP	10/18/2012	ND	ND	
3	MS	201033064	OUTFALL 302 MS	Water	RMP	10/18/2012	ND	ND	
4	MSD	201033065	OUTFALL 302 MS	Water	RMP	10/18/2012	ND	ND	
5	PS	201032732	GWMW-3-2	Water	RMP	10/18/2012	ND	ND	
6	PS	201032749	TB-101712	Water	RMP	10/18/2012	ND	ND	
7	PS	201033009		Water	RMP	10/18/2012	ND	ND	
8	PS	201033144		Water	RMP	10/18/2012	ND	ND	
9	PS	201032747	FB-101712	Water	RMP	10/18/2012	ND	ND	
10	PS	201032734	GWMW-2-1	Water	RMP	10/18/2012	ND	ND	
11	PS	201032785		Water	RMP	10/18/2012	ND	ND	
12	PS	201032730	GWMW-3-1	Water	RMP	10/18/2012	ND	ND	
13	PS	201032729	EB-101712	Water	RMP	10/18/2012	ND	ND	
14	PS	201032746	GWMW-2-2	Water	RMP	10/18/2012	ND	ND	

Sample Preparation ICP

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

Method: EPA 200.7
Metals, ICP

Project: 20145546
Batch: 195171

	Type	Lab ID	Client ID	Matrix	Analyst	Date	Intial Sample Size	Final Sample Size	Moisture
1	BLANK	201033459	195171 BLANK 1		TLB1	10/19/2012	ND	ND	
2	LCS	201033460	195171 LCS 1		TLB1	10/19/2012	ND	ND	
3	MS	201033461	TANK 45-2 EFFLU	Water	TLB1	10/19/2012	ND	ND	
4	MSD	201033462	TANK 45-2 EFFLU	Water	TLB1	10/19/2012	ND	ND	
5	PS	201032730	GWMW-3-1	Water	TLB1	10/19/2012	ND	ND	
6	PS	201032243		Water	TLB1	10/19/2012	ND	ND	
7	PS	201032238		Water	TLB1	10/19/2012	ND	ND	
8	PS	201032729	EB-101712	Water	TLB1	10/19/2012	ND	ND	
9	PS	201033243		Water	TLB1	10/19/2012	ND	ND	
10	PS	201033433		Water	TLB1	10/19/2012	ND	ND	
11	PS	201033391		Water	TLB1	10/19/2012	ND	ND	
12	PS	201033383		Water	TLB1	10/19/2012	ND	ND	
13	PS	201033266		Water	TLB1	10/19/2012	ND	ND	
14	PS	201033265		Water	TLB1	10/19/2012	ND	ND	
15	PS	201032746	GWMW-2-2	Water	TLB1	10/19/2012	ND	ND	
16	PS	201033244		Water	TLB1	10/19/2012	ND	ND	
17	PS	201032732	GWMW-3-2	Water	TLB1	10/19/2012	ND	ND	
18	PS	201033242		Water	TLB1	10/19/2012	ND	ND	
19	PS	201033241		Water	TLB1	10/19/2012	ND	ND	
20	PS	201033200		Water	TLB1	10/19/2012	ND	ND	
21	PS	201033434		Water	TLB1	10/19/2012	ND	ND	
22	PS	201032747	FB-101712	Water	TLB1	10/19/2012	ND	ND	
23	PS	201032734	GWMW-2-1	Water	TLB1	10/19/2012	ND	ND	
24	PS	201033264		Water	TLB1	10/19/2012	ND	ND	

Quantitation Report

Data File : R:\DATAL\101812\1018L27.D
Acq On : 18 Oct 2012 4:32 pm
Sample : 201032729
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012

Vial: 27
Operator:
Inst : 20msvl
Multiplr: 1.00

Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	180559	50.00 ppb	0.01 69.38%
37) CI10 1,4-Difluorobenzene	7.70	114	456370	50.00 ppb	0.02 70.32%
57) CI15 Chlorobenzene-d5	10.24	82	202449	50.00 ppb	0.02 71.51%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	108721	50.00 ppb	0.01 67.10%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.77	113	185558	47.06 ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 94.12%		
54) CS05 Toluene-d8	9.03	98	602235	47.27 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 94.54%		
73) CS10 Bromofluorobenzene	10.99	176	107025	46.77 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 93.54%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1018L27.D L100912.M Fri Oct 19 21:04:24 2012

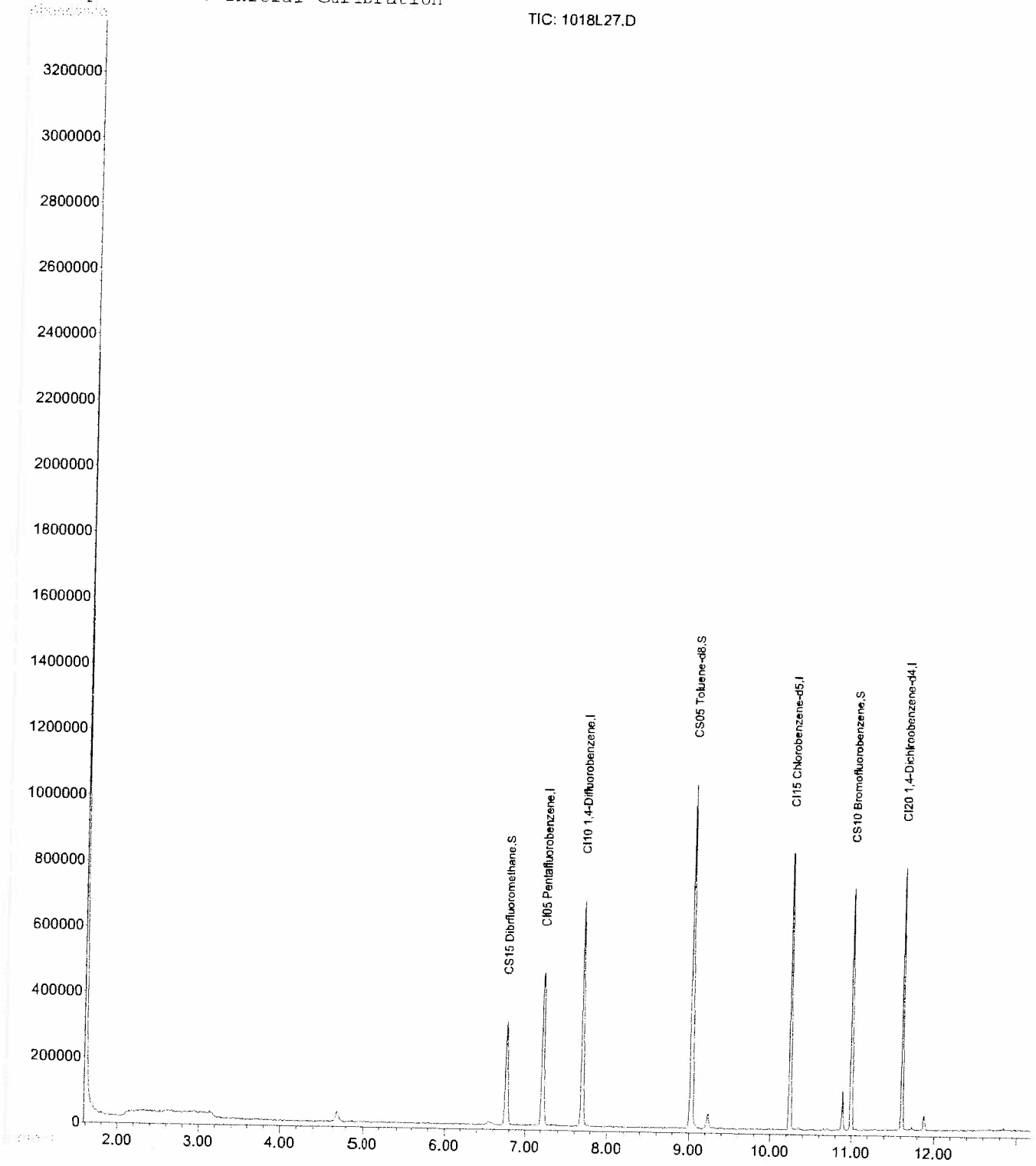
Quantitation Report

Data File : R:\DATAL\101812\1018L27.D
Acq On : 18 Oct 2012 4:32 pm
Sample : 201032729
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012

Vial: 27
Operator:
Inst : 20msvl
Multiplr: 1.00

Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



1018L27.D L100912.M Fri Oct 19 21:04:24 2012

Page 2

Quantitation Report

Data File : R:\DATAL\101812\1018L28.D Vial: 28
Acq On : 18 Oct 2012 4:52 pm Operator:
Sample : 201032730 Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012 Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	166056	50.00	ppb	0.01 63.80%
37) CI10 1,4-Difluorobenzene	7.70	114	431526	50.00	ppb	0.01 66.50%
57) CI15 Chlorobenzene-d5	10.23	82	193529	50.00	ppb	0.01 68.36%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	105315	50.00	ppb	0.00 64.99%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.77	113	171080	47.17	ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 94.34%			
54) CS05 Toluene-d8	9.03	98	568031	47.15	ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 94.30%			
73) CS10 Bromofluorobenzene	10.99	176	99308	44.80	ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 89.60%			

Target Compounds Qvalue

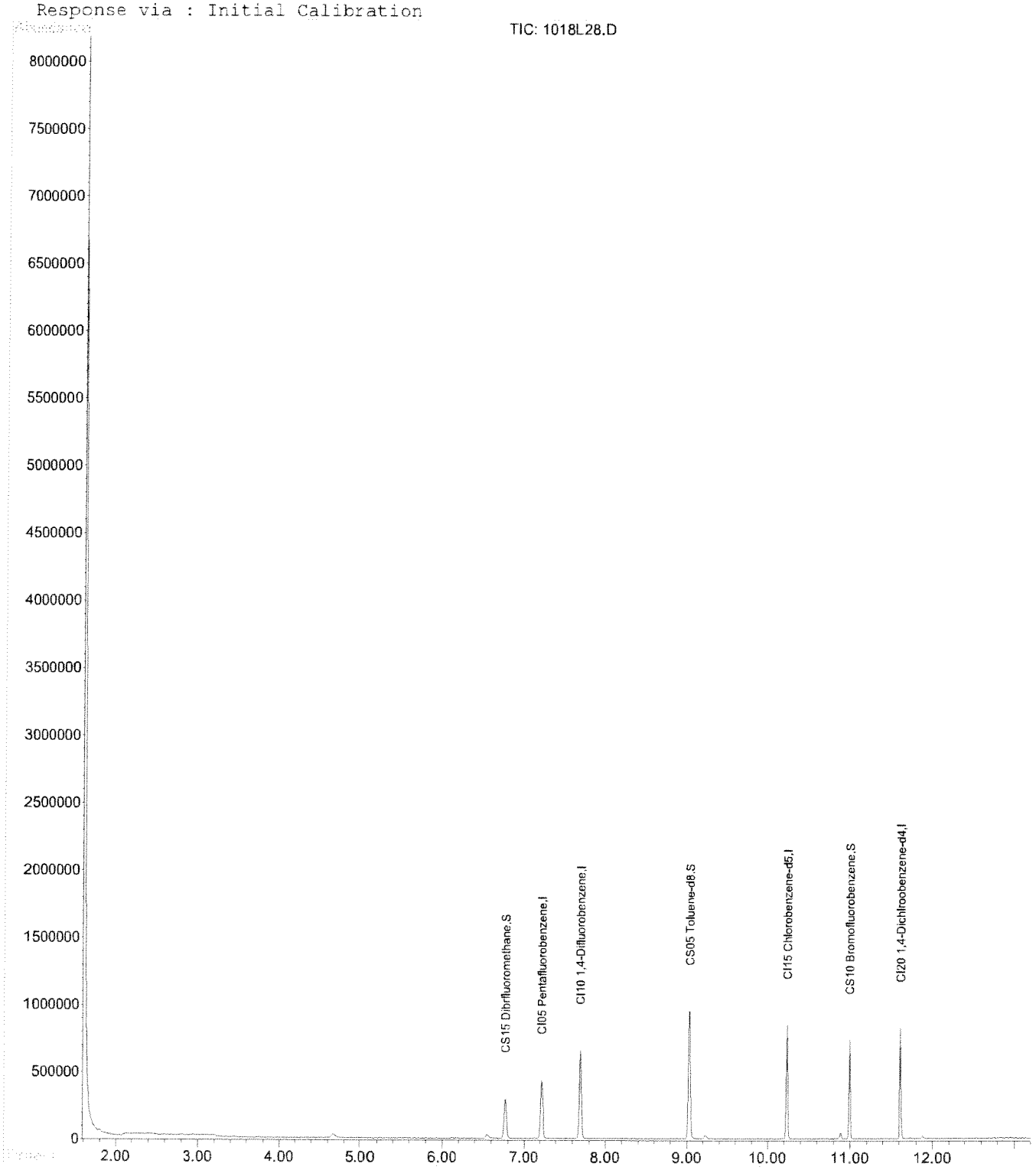
(#) = qualifier out of range (m) = manual integration
1018L28.D L100912.M Fri Oct 19 21:04:25 2012 Page 1

Quantitation Report

Data File : R:\DATAL\101812\1018L28.D
Acq On : 18 Oct 2012 4:52 pm
Sample : 201032730
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012

Vial: 28
Operator:
Inst : 20msvl
Multiplr: 1.00
Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



Quantitation Report

Data File : R:\DATAL\101812\1018L29.D Vial: 29
Acq On : 18 Oct 2012 5:12 pm Operator:
Sample : 201032732 Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012 Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	168868	50.00 ppb	0.00 64.88%
37) CI10 1,4-Difluorobenzene	7.70	114	440190	50.00 ppb	0.02 67.83%
57) CI15 Chlorobenzene-d5	10.24	82	197999	50.00 ppb	0.02 69.94%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	106159	50.00 ppb	0.00 65.51%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.76	113	181007	49.08 ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 98.16%		
54) CS05 Toluene-d8	9.03	98	596101	48.51 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 97.02%		
73) CS10 Bromofluorobenzene	10.99	176	107657	48.18 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 96.36%		

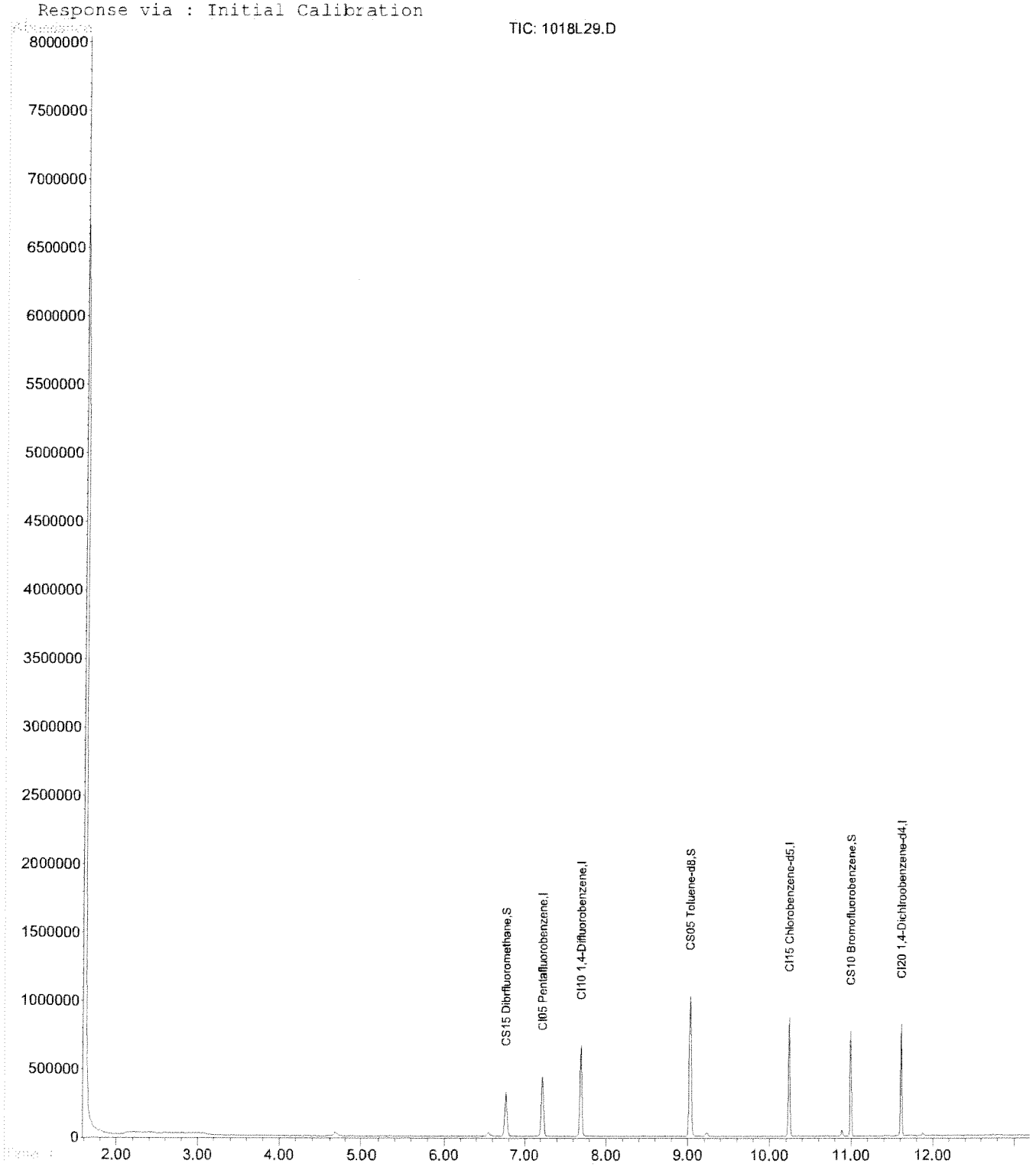
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : R:\DATAL\101812\1018L29.D Vial: 29
Acq On : 18 Oct 2012 5:12 pm Operator:
Sample : 201032732 Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012 Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



1018L29.D L100912.M Fri Oct 19 21:04:27 2012 Page 2

Quantitation Report

Data File : R:\DATAL\101812\1018L30.D Vial: 30
Acq On : 18 Oct 2012 5:32 pm Operator:
Sample : 201032734 Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012 Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	165832	50.00 ppb	0.02 63.72%
37) CI10 1,4-Difluorobenzene	7.70	114	429188	50.00 ppb	0.02 66.14%
57) CI15 Chlorobenzene-d5	10.24	82	192179	50.00 ppb	0.02 67.88%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	105307	50.00 ppb	0.00 64.99%

System Monitoring Compounds					
35) CS15 Dibrfluoromethane	6.77	113	171992	47.49 ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 94.98%		
54) CS05 Toluene-d8	9.03	98	582132	48.59 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 97.18%		
73) CS10 Bromofluorobenzene	10.99	176	102589	46.28 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 92.56%		

Target Compounds					Qvalue
19) D810 MTBE	5.08	73	2907	0.52 ppb	100

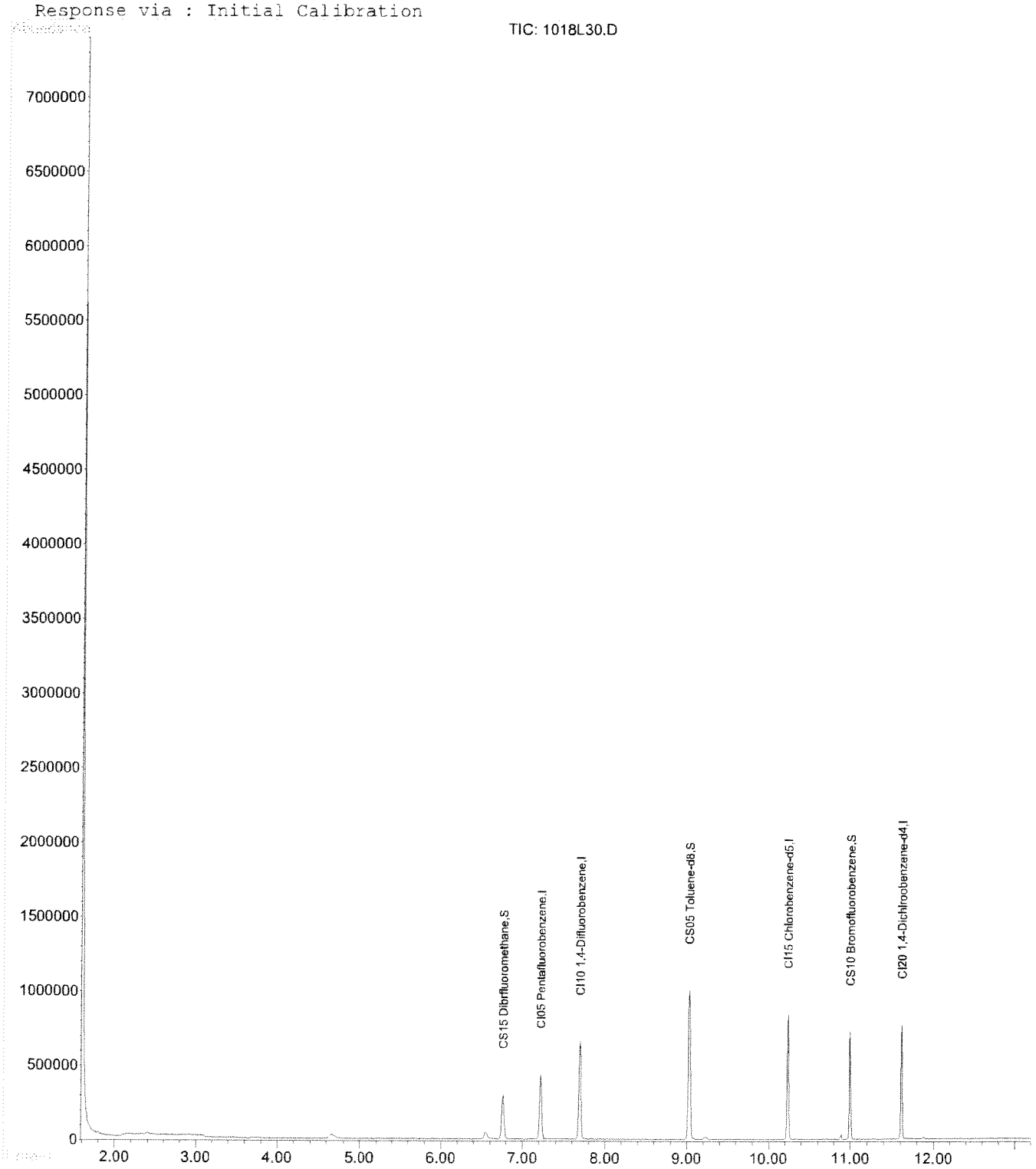
(#) = qualifier out of range (m) = manual integration
1018L30.D L100912.M Fri Oct 19 21:04:28 2012

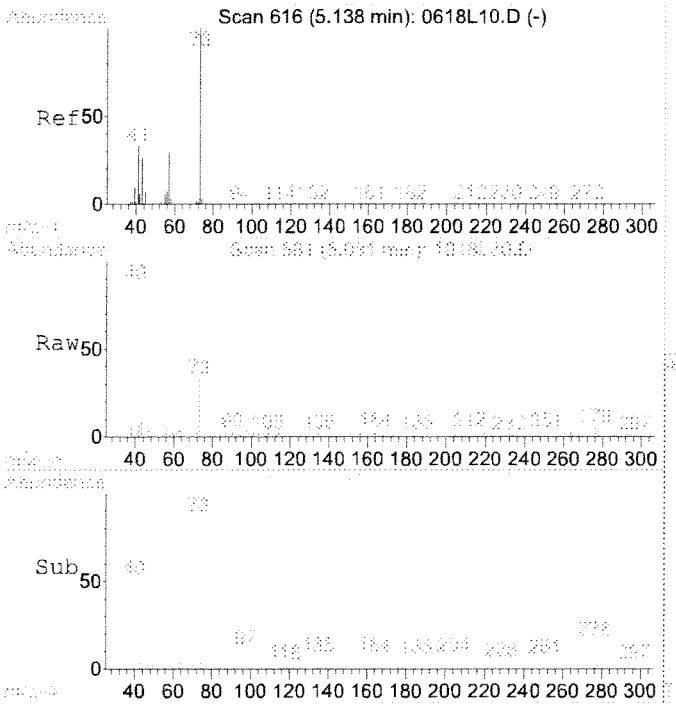
Quantitation Report

Data File : R:\DATAL\101812\1018L30.D
Acq On : 18 Oct 2012 5:32 pm
Sample : 201032734
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:14 2012

Vial: 30
Operator:
Inst : 20msvl
Multiplr: 1.00
Quant Results File: L100912.RES

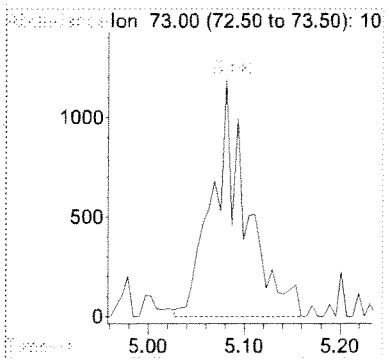
Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration





#19
D810 MTBE
Concen: 0.52 ppb
RT: 5.08 min Scan# 581
Delta R.T. 0.02 min
Lab File: 1018L30.D
Acq: 18 Oct 2012 5:32 pm

Tgt Ion: 73 Resp: 2907



Quantitation Report

Data File : R:\DATAL\101812\1018L31.D
Acq On : 18 Oct 2012 5:52 pm
Sample : 201032746
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012

Vial: 31
Operator:
Inst : 20msvl
Multiplr: 1.00

Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	166200	50.00 ppb	0.01 63.86%
37) CI10 1,4-Difluorobenzene	7.69	114	431176	50.00 ppb	0.01 66.44%
57) CI15 Chlorobenzene-d5	10.23	82	195670	50.00 ppb	0.01 69.11%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	101799	50.00 ppb	0.00 62.82%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.76	113	174940	48.20 ppb	0.01
Spiked Amount 50.000	Range 72 - 126		Recovery = 96.40%		
54) CS05 Toluene-d8	9.03	98	584438	48.56 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 97.12%		
73) CS10 Bromofluorobenzene	11.00	176	100790	47.04 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 94.08%		

Target Compounds Qvalue

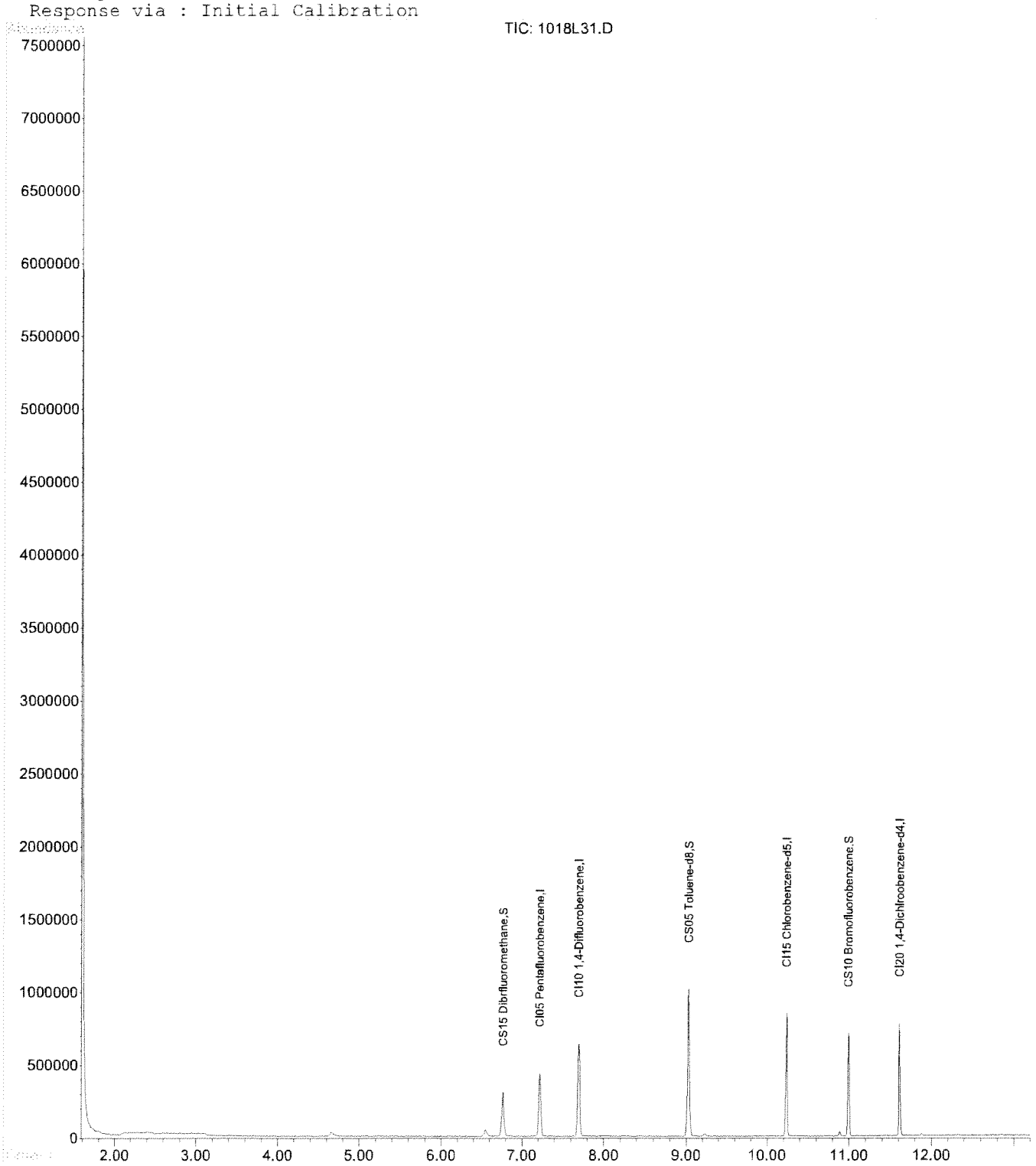
(#) = qualifier out of range (m) = manual integration
1018L31.D L100912.M Fri Oct 19 21:04:30 2012

Quantitation Report

Data File : R:\DATAL\101812\1018L31.D
Acq On : 18 Oct 2012 5:52 pm
Sample : 201032746
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012

Vial: 31
Operator:
Inst : 20msvl
Multiplr: 1.00
Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



Quantitation Report

Data File : R:\DATAL\101812\1018L32.D Vial: 32
Acq On : 18 Oct 2012 6:12 pm Operator:
Sample : 201032747 Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012 Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	154746	50.00 ppb	0.02 59.46%
37) CI10 1,4-Difluorobenzene	7.70	114	388381	50.00 ppb	0.02 59.85%
57) CI15 Chlorobenzene-d5	10.24	82	180345	50.00 ppb	0.02 63.70%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	94918	50.00 ppb	0.00 58.58%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.76	113	150640	44.57 ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 89.14%		
54) CS05 Toluene-d8	9.03	98	492924	45.47 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 90.94%		
73) CS10 Bromofluorobenzene	10.99	176	88561	44.33 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 88.66%		

Target Compounds Qvalue

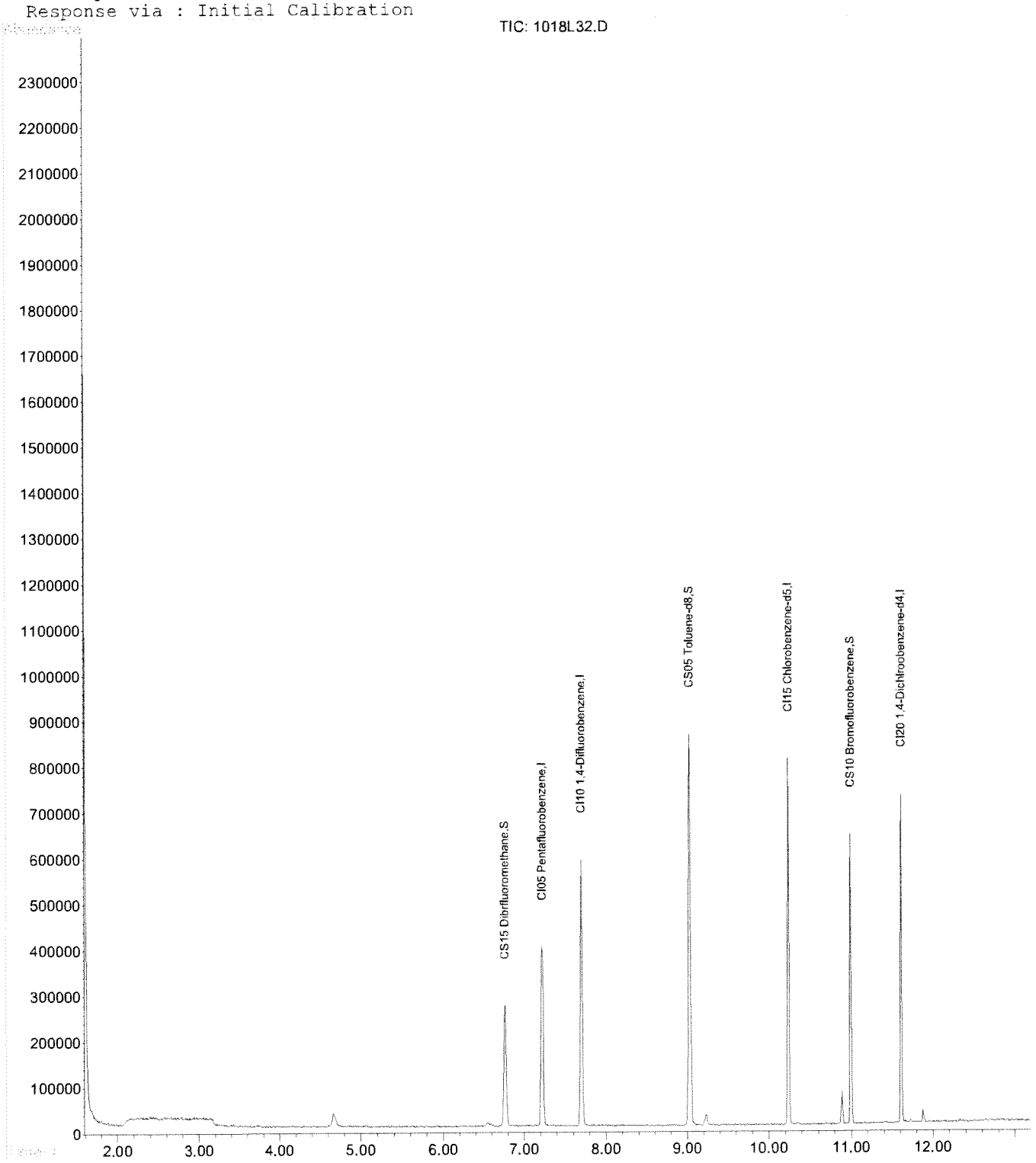
(#) = qualifier out of range (m) = manual integration
1018L32.D L100912.M Fri Oct 19 21:04:31 2012

Quantitation Report

Data File : R:\DATAL\101812\1018L32.D
Acq On : 18 Oct 2012 6:12 pm
Sample : 201032747
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012

Vial: 32
Operator:
Inst : 20msvl
Multiplr: 1.00
Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



Quantitation Report

Data File : R:\DATAL\101812\1018L33.D
Acq On : 18 Oct 2012 6:32 pm
Sample : 201032749/'
Misc : 195053 1:1 WAT/5.0mL
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012

Vial: 33
Operator:
Inst : 20msvl
Multiplr: 1.00

Quant Results File: L100912.RES

Quant Method : C:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Thu Oct 18 09:14:02 2012
Response via : Initial Calibration
DataAcq Meth : LVOAGC
IS QA File : C:\DATAL\101812\1018L04.D (18 Oct 2012 8:54)

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) CI05 Pentafluorobenzene	7.22	99	160975	50.00 ppb	0.01 61.85%
37) CI10 1,4-Difluorobenzene	7.70	114	421235	50.00 ppb	0.02 64.91%
57) CI15 Chlorobenzene-d5	10.23	82	186249	50.00 ppb	0.01 65.78%
70) CI20 1,4-Dichlroobenzene-d	11.61	152	103385	50.00 ppb	0.00 63.80%

System Monitoring Compounds

35) CS15 Dibrfluoromethane	6.77	113	172400	49.04 ppb	0.02
Spiked Amount 50.000	Range 72 - 126		Recovery = 98.08%		
54) CS05 Toluene-d8	9.03	98	557899	47.44 ppb	0.03
Spiked Amount 50.000	Range 79 - 119		Recovery = 94.88%		
73) CS10 Bromofluorobenzene	11.00	176	100967	46.40 ppb	0.00
Spiked Amount 50.000	Range 68 - 124		Recovery = 92.80%		

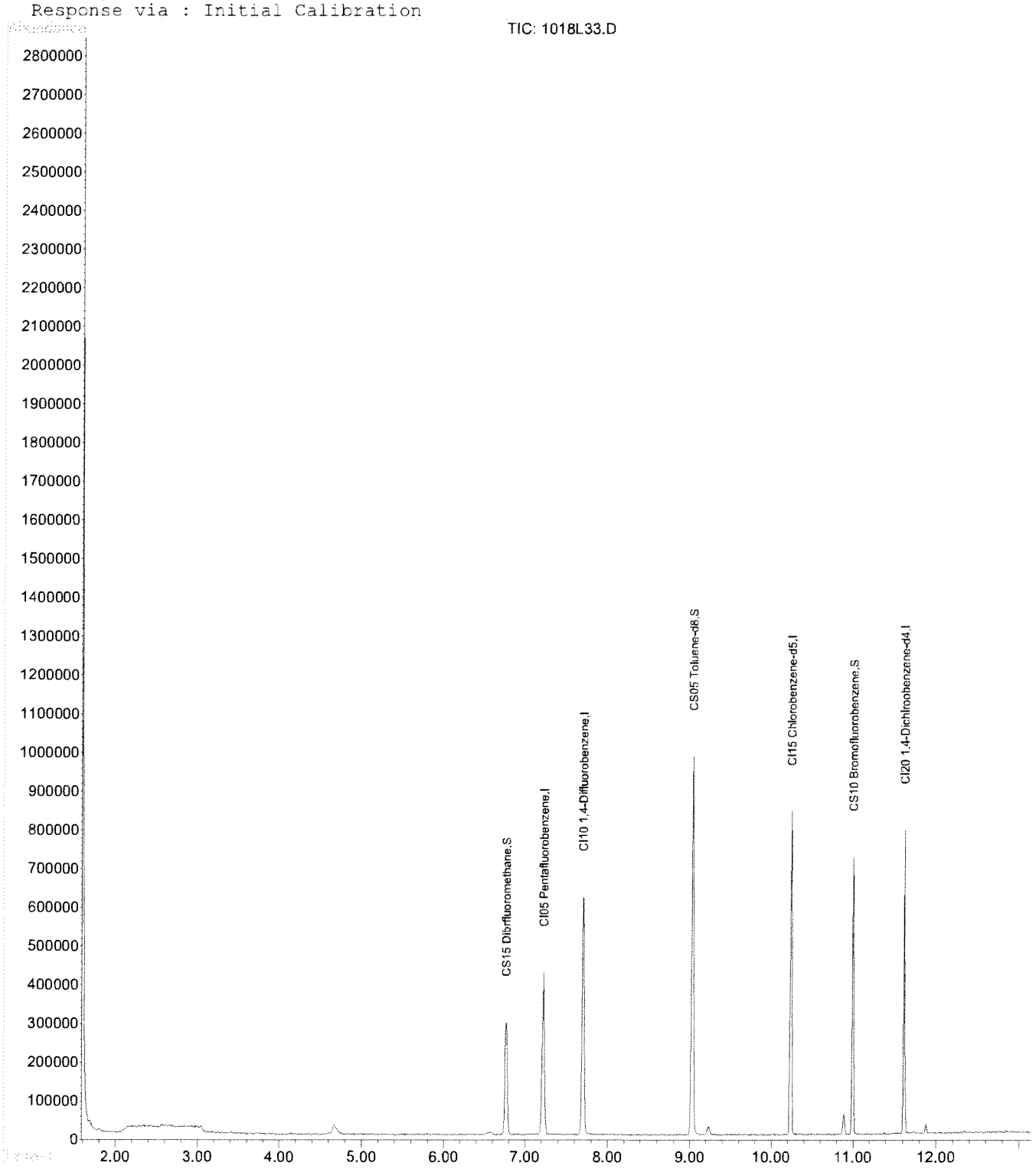
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1018L33.D L100912.M Fri Oct 19 21:04:33 2012

Quantitation Report

Data File : R:\DATAL\101812\1018L33.D Vial: 33
Acq On : 18 Oct 2012 6:32 pm Operator:
Sample : 201032749/' Inst : 20msvl
Misc : 195053 1:1 WAT/5.0mL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 8:15 2012 Quant Results File: L100912.RES

Method : R:\DATAL\L100912.M (RTE Integrator)
Title : 8260 LIST L
Last Update : Tue Oct 09 13:52:34 2012
Response via : Initial Calibration



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INSTRUMENT RUNLOG

ICAP 20ICPQ Q121019A.TXT

		Lab ID	Extra	Batch	DF	Analysis Date/Time	Comments
1	1	Blank	689-43-S1		1	19-Oct-12 7:43	
2	2	S2	689-45-S2		1	19-Oct-12 7:47	
3	3	S1	689-44-S1		1	19-Oct-12 7:50	
4	4	High Stand	689-44-S1		1	19-Oct-12 7:53	
5	5	ICV	689-46-ICV		1	19-Oct-12 7:57	
6	6	ICB	689-43-S0		1	19-Oct-12 8:00	
7	7	ICSA	689-48-ICSA		1	19-Oct-12 8:04	
8	8	ICSAB	689-49-ICSAB		1	19-Oct-12 8:07	
9	9	CRI	689-47-CRI		1	19-Oct-12 8:11	
10	10	CCV	689-45-S2			19-Oct-12 8:15	
11	11	CCB	689-43-S0			19-Oct-12 8:18	
12	12	201033252	B	195111	1	19-Oct-12 8:22	
13	13	201033253	LCS	195111	1	19-Oct-12 8:25	
14	14	201033121	QC	195111	1	19-Oct-12 8:29	
15	15	201033254	MS	195111	1	19-Oct-12 8:32	
16	16	201033255	MSD	195111	1	19-Oct-12 8:36	
17	17	201033121L	L	195111	1	19-Oct-12 8:39	
18	18	201033015		195111	1	19-Oct-12 8:43	
19	19	201033016		195111	1	19-Oct-12 8:47	
20	20	201033017		195111	1	19-Oct-12 8:50	
21	21	201033018		195111	1	19-Oct-12 8:54	
22	22	CCV	689-45-S2			19-Oct-12 8:58	
23	23	CCB	689-43-S0			19-Oct-12 9:01	
24	24	201033459	B	195171	1	19-Oct-12 9:05	
25	25	201033460	LCS	195171	1	19-Oct-12 9:08	
26	26	201033383	QC	195171	1	19-Oct-12 9:12	
27	27	201033461	MS	195171	1	19-Oct-12 9:15	
28	28	201033462	MSD	195171	1	19-Oct-12 9:19	
29	29	201033383	L	195171	1	19-Oct-12 9:22	
30	30	201033391		195171	1	19-Oct-12 9:26	
31	31	201033433		195171	1	19-Oct-12 9:29	
32	32	201033434		195171	1	19-Oct-12 9:33	
33	33	CCV	689-45-S2			19-Oct-12 9:49	Re Cal and Re Run
34	34	CCB	689-43-S0			19-Oct-12 9:52	
35	35	Blank	689-43-S1		1	19-Oct-12 9:56	
36	36	S2	689-45-S2		1	19-Oct-12 10:00	
37	37	S1	689-44-S1		1	19-Oct-12 10:03	
38	38	High Stand	689-44-S1		1	19-Oct-12 10:07	
39	39	ICV	689-46-ICV		1	19-Oct-12 10:10	
40	40	ICB	689-43-S0		1	19-Oct-12 10:14	
41	41	ICSA	689-48-ICSA		1	19-Oct-12 10:17	
42	42	ICSAB	689-49-ICSAB		1	19-Oct-12 10:21	
43	43	CRI	689-47-CRI		1	19-Oct-12 10:24	
44	44	CCV	689-45-S2			19-Oct-12 10:28	
45	45	CCB	689-43-S0			19-Oct-12 10:31	
46	46	201033459	B	195171	1	19-Oct-12 10:35	
47	47	201033460	LCS	195171	1	19-Oct-12 10:38	
48	48	201033383	QC	195171	1	19-Oct-12 10:42	
49	49	201033461	MS	195171	1	19-Oct-12 10:45	
50	50	201033462	MSD	195171	1	19-Oct-12 10:49	

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INSTRUMENT RUNLOG

ICAP 20ICPQ Q121019A.TXT

		Lab ID	Extra	Batch	DF	Analysis Date/Time	Comments
51	51	201033383	L	195171	1	19-Oct-12 10:52	
52	52	201033391		195171	1	19-Oct-12 10:56	
53	53	201033433		195171	1	19-Oct-12 11:02	
54	54	201033434		195171	1	19-Oct-12 11:06	
55	55	CCV	689-45-S2			19-Oct-12 11:09	2nd Run. Sent second set
56	56	CCB	689-43-S0			19-Oct-12 11:13	supervisor can narrate
57	57	Blank	689-43-S1		1	19-Oct-12 11:25	
58	58	S2	689-45-S2		1	19-Oct-12 11:28	
59	59	S1	689-44-S1		1	19-Oct-12 11:32	
60	60	High Stand	689-44-S1		1	19-Oct-12 11:35	
61	61	ICV	689-46-ICV		1	19-Oct-12 11:38	
62	62	ICB	689-43-S0		1	19-Oct-12 11:42	
63	63	ICSA	689-48-ICSA		1	19-Oct-12 11:45	
64	64	ICSAB	689-49-ICSAB		1	19-Oct-12 11:49	
65	65	CRI	689-47-CRI		1	19-Oct-12 11:52	
66	66	CCV	689-45-S2			19-Oct-12 11:56	
67	67	CCB	689-43-S0			19-Oct-12 12:00	
68	68	201033500	B	195182	1	19-Oct-12 12:03	
69	69	201033501	LCS	195182	1	19-Oct-12 12:07	
70	70	201033463		195182	1	19-Oct-12 12:10	
71	71	201033464		195182	1	19-Oct-12 12:14	
72	72	201033465		195182	1	19-Oct-12 12:17	
73	73	201033466		195182	1	19-Oct-12 12:21	
74	74	201033467		195182	1	19-Oct-12 12:25	
75	75	201033468		195182	1	19-Oct-12 12:28	
76	76	201033469	CB	195182	1	19-Oct-12 12:32	
77	77	CCV	689-45-S2			19-Oct-12 12:35	
78	78	CCB	689-43-S0			19-Oct-12 12:39	
79	79	201033488	B	195179	1	19-Oct-12 12:42	
80	80	201033489	LCS	195179	1	19-Oct-12 12:46	
81	81	201032786	QC	195179	1	19-Oct-12 12:49	
82	82	201033490	MS	195179	1	19-Oct-12 12:53	
83	83	201033491	MSD	195179	1	19-Oct-12 12:57	
84	84	201032786	L	195179	1	19-Oct-12 13:00	
85	85	201030811		195179	1	19-Oct-12 13:04	
86	86	201031091		195179	1	19-Oct-12 13:08	
87	87	201031717		195179	1	19-Oct-12 13:11	
88	88	CCV	689-45-S2			19-Oct-12 13:19	
89	89	CCB	689-43-S0			19-Oct-12 13:23	
90	90	201031760		195179	1	19-Oct-12 13:26	
91	91	201031761		195179	1	19-Oct-12 13:30	
92	92	201031762		195179	1	19-Oct-12 13:34	
93	93	LB101812			1	19-Oct-12 13:37	
94	94	CCV	689-45-S2			19-Oct-12 13:41	
95	95	CCB	689-43-S0			19-Oct-12 13:44	
96	96	201033241		195171	1	19-Oct-12 13:48	
97	97	201033242		195171	1	19-Oct-12 13:52	
98	98	201033243		195171	1	19-Oct-12 13:55	
99	99	201033244		195171	1	19-Oct-12 13:59	
100	100	201033200		195171	1	19-Oct-12 14:03	

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INSTRUMENT RUNLOG

ICAP 20ICPQ Q121019A.TXT

	Lab ID	Extra	Batch	DF	Analysis Date/Time	Comments
101	101 201033264		195171	1	19-Oct-12 14:06	
102	102 201033265		195171	1	19-Oct-12 14:10	
103	103 201033266		195171	1	19-Oct-12 14:14	
104	104 201032729		195171	1	19-Oct-12 14:17	
105	105 201032730		195171	1	19-Oct-12 14:21	
106	106 CCV	689-45—S 2			19-Oct-12 14:24	
107	107 CCB	689-43—S 0			19-Oct-12 14:28	
108	108 201032732		195171	1	19-Oct-12 14:31	
109	109 201032734		195171	1	19-Oct-12 14:35	
110	110 201032746		195171	1	19-Oct-12 14:39	
111	111 201032747		195171	1	19-Oct-12 14:42	
112	112 201033019		195111	1	19-Oct-12 14:46	
113	113 201033075		195111	1	19-Oct-12 14:49	
114	114 201033077		195111	1	19-Oct-12 14:53	
115	115 201033132		195111	1	19-Oct-12 14:57	
116	116 201033153		195111	1	19-Oct-12 15:00	
117	117 201033162		195111	1	19-Oct-12 15:04	
118	118 201033182		195111	1	19-Oct-12 15:08	
119	119 CCV	689-45—S2			19-Oct-12 15:11	
120	120 CCB	689-43—S0			19-Oct-12 15:15	
121	121 201033184		195111	1	19-Oct-12 15:18	
122	122 201033185		195111	1	19-Oct-12 15:22	
123	123 201033196		195111	1	19-Oct-12 15:26	
124	124 201033197		195111	1	19-Oct-12 15:29	
125	125 201033198		195111	1	19-Oct-12 15:33	
126	126 201033201		195111	1	19-Oct-12 15:37	
127	127 201033239		195111	1	19-Oct-12 15:40	
128	128 201033240		195111	1	19-Oct-12 15:44	
129	129 201032238	10	195171	10	19-Oct-12 15:48	
130	130 201032243	10	195171	10	19-Oct-12 15:51	
131	131 ICSA	689-48--ICSA		1	19-Oct-12 15:55	
132	132 ICSAB	689-49--ICSAB		1	19-Oct-12 15:59	
133	133 CRI	689-47--CRI		1	19-Oct-12 16:02	
134	134 CCV	689-45- S2			19-Oct-12 16:06	
135	135 CCB	689-43- SO			19-Oct-12 16:09	

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV — ICV time: 19-Oct-12 7:57

CCV1 name: CCV — CCV1 time: 19-Oct-12 8:15

Concentration Units: ug/L — CCV2 name: CCV — CCV2 time: 19-Oct-12 8:58

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034		5187.000				9787.000		9461.000		-
Aluminum	394.401	5000	5041.000	100.8	90-110	10000	9967.000	99.7	9921.000	99.2	90-110
Antimony	206.833	500	517.500	103.5	90-110	1000	983.200	98.3	955.700	95.6	90-110
Arsenic	189.042	500	508.100	101.6	90-110	1000	965.300	96.5	919.600	92.0	90-110
Barium	493.409	500	506.400	101.3	90-110	1000	988.700	98.9	1014.000	101.4	90-110
Beryllium	313.107	500	499.700	99.9	90-110	1000	972.800	97.3	943.000	94.3	90-110
Boron	249.678	500	492.500	98.5	90-110	1000	983.700	98.4	966.600	96.7	90-110
Cadmium	226.502	500	521.000	104.2	90-110	1000	983.400	98.3	944.200	94.4	90-110
Calcium	370.603	5000	5031.000	100.6	90-110	10000	9922.000	99.2	9654.000	96.5	90-110
Chromium	267.716	500	508.600	101.7	90-110	1000	984.300	98.4	908.200	90.8	90-110
Cobalt	237.862	500	522.200	104.4	90-110	1000	998.900	99.9	933.700	93.4	90-110
Copper	327.396	500	515.200	103.0	90-110	1000	1009.000	100.9	1012.000	101.2	90-110
Iron	259.837	5000	5089.000	101.8	90-110	10000	9962.000	99.6	9478.000	94.8	90-110
Lead	220.353	500	527.700	105.5	90-110	1000	991.500	99.2	955.700	95.6	90-110
Lithium	670.784	500	506.600	101.3	90-110	1000	991.400	99.1	1011.000	101.1	90-110
Magnesium	279.079	5000	4974.000	99.5	90-110	10000	9843.000	98.4	9406.000	94.1	90-110
Manganese	293.930	500	522.100	104.4	90-110	1000	986.300	98.6	954.900	95.5	90-110
Molybdenum	202.030	500	513.800	102.8	90-110	1000	980.000	98.0	934.400	93.4	90-110
Nickel	231.604	500	523.700	104.7	90-110	1000	980.100	98.0	920.800	92.1	90-110
Phosphorous	178.284	500	512.200	102.4	90-110	1000	994.300	99.4	965.400	96.5	90-110
Potassium	766.490	5000	5029.000	100.6	90-110	10000	10010.000	100.1	10390.000	103.9	90-110
Selenium	206.279	500	512.600	102.5	90-110	1000	991.000	99.1	945.100	94.5	90-110
Silicon	288.158	2500	2342.000	93.7	90-110	5000	4786.000	95.7	4607.000	92.1	90-110
Silver	328.068	250	260.100	104.0	90-110	500	490.900	98.2	467.000	93.4	90-110
Sodium	589.592	5000	4845.000	96.9	90-110	10000	9802.000	98.0	14520.000	145.2 *	90-110
Strontium	346.446	500	512.400	102.5	90-110	1000	985.800	98.6	970.200	97.0	90-110
Thallium	190.856	500	544.800	109.0	90-110	1000	1004.000	100.4	963.000	96.3	90-110
Tin	189.989	500	510.900	102.2	90-110	1000	981.400	98.1	932.000	93.2	90-110
Titanium	308.802	500	506.300	101.3	90-110	1000	997.300	99.7	959.900	96.0	90-110
Vanadium	289.332	500	508.700	101.7	90-110	1000	975.000	97.5	936.100	93.6	90-110
Zinc	206.200	500	511.500	102.3	90-110	1000	971.800	97.2	915.000	91.5	90-110

ProDatPlus v. 10 10/19/2012 16:13:45

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV time:

CCV1 name: CCV CCV1 time: 19-Oct-12 9:49

Concentration Units: ug/L CCV2 name: CCV2 time:

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034						9426.000				-
Aluminum	394.401					10000	9987.000	99.9			90-110
Antimony	206.833					1000	950.400	95.0			90-110
Arsenic	189.042					1000	896.700	89.7			90-110
Barium	493.409					1000	1021.000	102.1			90-110
Beryllium	313.107					1000	944.900	94.5			90-110
Boron	249.678					1000	934.000	93.4			90-110
Cadmium	226.502					1000	943.200	94.3			90-110
Calcium	370.603					10000	9466.000	94.7			90-110
Chromium	267.716					1000	874.300	87.4			90-110
Cobalt	237.862					1000	891.200	89.1			90-110
Copper	327.396					1000	1014.000	101.4			90-110
Iron	259.837					10000	9292.000	92.9			90-110
Lead	220.353					1000	956.400	95.6			90-110
Lithium	670.784					1000	1032.000	103.2			90-110
Magnesium	279.079					10000	9220.000	92.2			90-110
Manganese	293.930					1000	959.100	95.9			90-110
Molybdenum	202.030					1000	914.300	91.4			90-110
Nickel	231.604					1000	899.000	89.9			90-110
Phosphorous	178.284					1000	953.400	95.3			90-110
Potassium	766.490					10000	10600.000	106.0			90-110
Selenium	206.279					1000	923.300	92.3			90-110
Silicon	288.158					5000	4609.000	92.2			90-110
Silver	328.068					500	459.300	91.9			90-110
Sodium	589.592					10000	10340.000	103.4			90-110
Strontium	346.446					1000	931.400	93.1			90-110
Thallium	190.856					1000	949.600	95.0			90-110
Tin	189.989					1000	921.800	92.2			90-110
Titanium	308.802					1000	933.600	93.4			90-110
Vanadium	289.332					1000	923.600	92.4			90-110
Zinc	206.200					1000	907.300	90.7			90-110

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV — ICV time: 19-Oct-12 10:10

CCV1 name: CCV — CCV1 time: 19-Oct-12 10:28

Concentration Units: ug/L — CCV2 name: CCV — CCV2 time: 19-Oct-12 11:09

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034		5096.000				10200.000		10900.000		-
Aluminum	394.401	5000	5043.000	100.9	90-110	10000	9842.000	98.4	9800.000	98.0	90-110
Antimony	206.833	500	519.200	103.8	90-110	1000	1014.000	101.4	1081.000	108.1	90-110
Arsenic	189.042	500	514.500	102.9	90-110	1000	1013.000	101.3	1121.000	112.1 *	90-110
Barium	493.409	500	510.500	102.1	90-110	1000	976.500	97.7	936.800	93.7	90-110
Beryllium	313.107	500	506.600	101.3	90-110	1000	990.500	99.1	1002.000	100.2	90-110
Boron	249.678	500	492.500	98.5	90-110	1000	962.800	96.3	951.400	95.1	90-110
Cadmium	226.502	500	525.600	105.1	90-110	1000	1038.000	103.8	1105.000	110.5	90-110
Calcium	370.603	5000	5034.000	100.7	90-110	10000	10040.000	100.4	10330.000	103.3	90-110
Chromium	267.716	500	513.100	102.6	90-110	1000	1000.000	100.0	1059.000	105.9	90-110
Cobalt	237.862	500	517.400	103.5	90-110	1000	977.900	97.8	1022.000	102.2	90-110
Copper	327.396	500	511.000	102.2	90-110	1000	970.600	97.1	948.000	94.8	90-110
Iron	259.837	5000	5096.000	101.9	90-110	10000	9906.000	99.1	10020.000	100.2	90-110
Lead	220.353	500	529.900	106.0	90-110	1000	1037.000	103.7	1106.000	110.6 *	90-110
Lithium	670.784	500	512.200	102.4	90-110	1000	971.300	97.1	964.300	96.4	90-110
Magnesium	279.079	5000	4999.000	100.0	90-110	10000	9958.000	99.6	10190.000	101.9	90-110
Manganese	293.930	500	528.000	105.6	90-110	1000	1034.000	103.4	1082.000	108.2	90-110
Molybdenum	202.030	500	516.600	103.3	90-110	1000	1027.000	102.7	1133.000	113.3 *	90-110
Nickel	231.604	500	526.100	105.2	90-110	1000	1038.000	103.8	1153.000	115.3 *	90-110
Phosphorous	178.284	500	516.000	103.2	90-110	1000	1039.000	103.9	1171.000	117.1 *	90-110
Potassium	766.490	5000	5042.000	100.8	90-110	10000	9772.000	97.7	9390.000	93.9	90-110
Selenium	206.279	500	524.000	104.8	90-110	1000	1022.000	102.2	1124.000	112.4 *	90-110
Silicon	288.158	2500	2372.000	94.9	90-110	5000	4906.000	98.1	4926.000	98.5	90-110
Silver	328.068	250	261.100	104.4	90-110	500	514.700	102.9	567.200	113.4 *	90-110
Sodium	589.592	5000	4708.000	94.2	90-110	10000	9861.000	98.6	9628.000	96.3	90-110
Strontium	346.446	500	506.700	101.3	90-110	1000	1002.000	100.2	1035.000	103.5	90-110
Thallium	190.856	500	545.400	109.1	90-110	1000	1038.000	103.8	1117.000	111.7 *	90-110
Tin	189.989	500	513.600	102.7	90-110	1000	1034.000	103.4	1132.000	113.2 *	90-110
Titanium	308.802	500	501.800	100.4	90-110	1000	978.900	97.9	1014.000	101.4	90-110
Vanadium	289.332	500	512.500	102.5	90-110	1000	994.600	99.5	1016.000	101.6	90-110
Zinc	206.200	500	515.600	103.1	90-110	1000	1052.000	105.2	1154.000	115.4 *	90-110

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV — ICV time: 19-Oct-12 11:38

CCV1 name: CCV — CCV1 time: 19-Oct-12 11:56

Concentration Units: ug/L — CCV2 name: CCV — CCV2 time: 19-Oct-12 12:35

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034		5145.000				10070.000		10270.000		-
Aluminum	394.401	5000	5094.000	101.9	90-110	10000	9914.000	99.1	9935.000	99.4	90-110
Antimony	206.833	500	526.300	105.3	90-110	1000	1011.000	101.1	1025.000	102.5	90-110
Arsenic	189.042	500	516.900	103.4	90-110	1000	1022.000	102.2	1043.000	104.3	90-110
Barium	493.409	500	513.200	102.6	90-110	1000	981.600	98.2	979.800	98.0	90-110
Beryllium	313.107	500	512.100	102.4	90-110	1000	990.900	99.1	996.900	99.7	90-110
Boron	249.678	500	490.200	98.0	90-110	1000	962.800	96.3	962.100	96.2	90-110
Cadmium	226.502	500	531.600	106.3	90-110	1000	1023.000	102.3	1040.000	104.0	90-110
Calcium	370.603	5000	5138.000	102.8	90-110	10000	10110.000	101.1	10190.000	101.9	90-110
Chromium	267.716	500	517.600	103.5	90-110	1000	1012.000	101.2	1024.000	102.4	90-110
Cobalt	237.862	500	528.300	105.7	90-110	1000	997.800	99.8	1031.000	103.1	90-110
Copper	327.396	500	515.000	103.0	90-110	1000	984.700	98.5	988.100	98.8	90-110
Iron	259.837	5000	5149.000	103.0	90-110	10000	9982.000	99.8	10020.000	100.2	90-110
Lead	220.353	500	537.700	107.5	90-110	1000	1022.000	102.2	1039.000	103.9	90-110
Lithium	670.784	500	512.300	102.5	90-110	1000	980.300	98.0	981.200	98.1	90-110
Magnesium	279.079	5000	5055.000	101.1	90-110	10000	10020.000	100.2	10040.000	100.4	90-110
Manganese	293.930	500	532.300	106.5	90-110	1000	1022.000	102.2	1032.000	103.2	90-110
Molybdenum	202.030	500	522.900	104.6	90-110	1000	1028.000	102.8	1048.000	104.8	90-110
Nickel	231.604	500	533.300	106.7	90-110	1000	1039.000	103.9	1060.000	106.0	90-110
Phosphorous	178.284	500	524.200	104.8	90-110	1000	1060.000	106.0	1090.000	109.0	90-110
Potassium	766.490	5000	5016.000	100.3	90-110	10000	9726.000	97.3	9738.000	97.4	90-110
Selenium	206.279	500	516.600	103.3	90-110	1000	1030.000	103.0	1062.000	106.2	90-110
Silicon	288.158	2500	2366.000	94.6	90-110	5000	4794.000	95.9	4831.000	96.6	90-110
Silver	328.068	250	263.800	105.5	90-110	500	512.700	102.5	521.300	104.3	90-110
Sodium	589.592	5000	4725.000	94.5	90-110	10000	9803.000	98.0	9822.000	98.2	90-110
Strontium	346.446	500	517.800	103.6	90-110	1000	1005.000	100.5	1017.000	101.7	90-110
Thallium	190.856	500	553.600	110.7 *	90-110	1000	1031.000	103.1	1046.000	104.6	90-110
Tin	189.989	500	521.300	104.3	90-110	1000	1029.000	102.9	1050.000	105.0	90-110
Titanium	308.802	500	506.600	101.3	90-110	1000	1005.000	100.5	1016.000	101.6	90-110
Vanadium	289.332	500	514.600	102.9	90-110	1000	998.600	99.9	1009.000	100.9	90-110
Zinc	206.200	500	524.800	105.0	90-110	1000	1034.000	103.4	1059.000	105.9	90-110

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV time:

CCV1 name: CCV CCV1 time: 19-Oct-12 13:19

CCV2 name: CCV CCV2 time: 19-Oct-12 13:41

Concentration Units: ug/L

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034						10150.000		10190.000		-
Aluminum	394.401					10000	9865.000	98.7	9731.000	97.3	90-110
Antimony	206.833					1000	1017.000	101.7	1020.000	102.0	90-110
Arsenic	189.042					1000	1040.000	104.0	1049.000	104.9	90-110
Barium	493.409					1000	975.300	97.5	958.700	95.9	90-110
Beryllium	313.107					1000	984.900	98.5	971.600	97.2	90-110
Boron	249.678					1000	930.600	93.1	923.000	92.3	90-110
Cadmium	226.502					1000	1021.000	102.1	1026.000	102.6	90-110
Calcium	370.603					10000	10020.000	100.2	9974.000	99.7	90-110
Chromium	267.716					1000	1013.000	101.3	1001.000	100.1	90-110
Cobalt	237.862					1000	1001.000	100.1	987.300	98.7	90-110
Copper	327.396					1000	964.600	96.5	954.200	95.4	90-110
Iron	259.837					10000	9769.000	97.7	9668.000	96.7	90-110
Lead	220.353					1000	1022.000	102.2	1027.000	102.7	90-110
Lithium	670.784					1000	992.300	99.2	973.200	97.3	90-110
Magnesium	279.079					10000	9760.000	97.6	9708.000	97.1	90-110
Manganese	293.930					1000	1019.000	101.9	1016.000	101.6	90-110
Molybdenum	202.030					1000	1043.000	104.3	1051.000	105.1	90-110
Nickel	231.604					1000	1060.000	106.0	1071.000	107.1	90-110
Phosphorous	178.284					1000	1100.000	110.0	1113.000	111.3	90-110
Potassium	766.490					10000	9617.000	96.2	9483.000	94.8	90-110
Selenium	206.279					1000	1053.000	105.3	1047.000	104.7	90-110
Silicon	288.158					5000	4882.000	97.6	4696.000	93.9	90-110
Silver	328.068					500	522.500	104.5	524.600	104.9	90-110
Sodium	589.592					10000	9889.000	98.9	9715.000	97.2	90-110
Strontium	346.446					1000	995.500	99.6	993.300	99.3	90-110
Thallium	190.856					1000	1039.000	103.9	1044.000	104.4	90-110
Tin	189.989					1000	1040.000	104.0	1047.000	104.7	90-110
Titanium	308.802					1000	1002.000	100.2	996.700	99.7	90-110
Vanadium	289.332					1000	1002.000	100.2	982.300	98.2	90-110
Zinc	206.200					1000	1081.000	108.1	1056.000	105.6	90-110

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV time:

CCV1 name: CCV CCV1 time: 19-Oct-12 14:24

Concentration Units: ug/L CCV2 name: CCV CCV2 time: 19-Oct-12 15:11

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034						10070.000		10150.000		-
Aluminum	394.401					10000	9693.000	96.9	9612.000	96.1	90-110
Antimony	206.833					1000	1009.000	100.9	1016.000	101.6	90-110
Arsenic	189.042					1000	1025.000	102.5	1043.000	104.3	90-110
Barium	493.409					1000	971.400	97.1	960.600	96.1	90-110
Beryllium	313.107					1000	964.000	96.4	953.200	95.3	90-110
Boron	249.678					1000	897.600	89.8	871.200	87.1	90-110
Cadmium	226.502					1000	1010.000	101.0	1016.000	101.6	90-110
Calcium	370.603					10000	9814.000	98.1	9751.000	97.5	90-110
Chromium	267.716					1000	974.100	97.4	969.400	96.9	90-110
Cobalt	237.862					1000	949.700	95.0	927.700	92.8	90-110
Copper	327.396					1000	944.800	94.5	929.600	93.0	90-110
Iron	259.837					10000	9419.000	94.2	9212.000	92.1	90-110
Lead	220.353					1000	1016.000	101.6	1017.000	101.7	90-110
Lithium	670.784					1000	984.800	98.5	981.700	98.2	90-110
Magnesium	279.079					10000	9476.000	94.8	9327.000	93.3	90-110
Manganese	293.930					1000	1006.000	100.6	1012.000	101.2	90-110
Molybdenum	202.030					1000	1027.000	102.7	1039.000	103.9	90-110
Nickel	231.604					1000	1043.000	104.3	1060.000	106.0	90-110
Phosphorous	178.284					1000	1092.000	109.2	1119.000	111.9	90-110
Potassium	766.490					10000	9633.000	96.3	9497.000	95.0	90-110
Selenium	206.279					1000	1037.000	103.7	1051.000	105.1	90-110
Silicon	288.158					5000	4645.000	92.9	4563.000	91.3	90-110
Silver	328.068					500	517.600	103.5	521.900	104.4	90-110
Sodium	589.592					10000	9860.000	98.6	9767.000	97.7	90-110
Strontium	346.446					1000	966.700	96.7	967.100	96.7	90-110
Thallium	190.856					1000	1026.000	102.6	1035.000	103.5	90-110
Tin	189.989					1000	1026.000	102.6	1035.000	103.5	90-110
Titanium	308.802					1000	972.100	97.2	964.400	96.4	90-110
Vanadium	289.332					1000	967.700	96.8	963.400	96.3	90-110
Zinc	206.200					1000	1027.000	102.7	1037.000	103.7	90-110

Pace Analytical™

ILM - FORM 2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

ICV name: ICV time:

CCV1 name: CCV CCV1 time: 19-Oct-12 16:06

Concentration Units: ug/L CCV2 name: CCV2 time:

Analyte		Initial Calibration				Continuing Calibration					
		True	Found	%R	Limits	True	Found	%R	Found	%R	Limits
	182.034						10160.000				-
Aluminum	394.401					10000	9441.000	94.4			90-110
Antimony	206.833					1000	1015.000	101.5			90-110
Arsenic	189.042					1000	1056.000	105.6			90-110
Barium	493.409					1000	934.300	93.4			90-110
Beryllium	313.107					1000	924.600	92.5			90-110
Boron	249.678					1000	847.000	84.7			90-110
Cadmium	226.502					1000	1013.000	101.3			90-110
Calcium	370.603					10000	9686.000	96.9			90-110
Chromium	267.716					1000	952.100	95.2			90-110
Cobalt	237.862					1000	913.900	91.4			90-110
Copper	327.396					1000	908.000	90.8			90-110
Iron	259.837					10000	9004.000	90.0			90-110
Lead	220.353					1000	1011.000	101.1			90-110
Lithium	670.784					1000	958.400	95.8			90-110
Magnesium	279.079					10000	9143.000	91.4			90-110
Manganese	293.930					1000	1006.000	100.6			90-110
Molybdenum	202.030					1000	1053.000	105.3			90-110
Nickel	231.604					1000	1077.000	107.7			90-110
Phosphorous	178.284					1000	1142.000	114.2			90-110
Potassium	766.490					10000	9212.000	92.1			90-110
Selenium	206.279					1000	1058.000	105.8			90-110
Silicon	288.158					5000	4418.000	88.4			90-110
Silver	328.068					500	528.600	105.7			90-110
Sodium	589.592					10000	9490.000	94.9			90-110
Strontium	346.446					1000	955.700	95.6			90-110
Thallium	190.856					1000	1040.000	104.0			90-110
Tin	189.989					1000	1042.000	104.2			90-110
Titanium	308.802					1000	957.600	95.8			90-110
Vanadium	289.332					1000	938.700	93.9			90-110
Zinc	206.200					1000	1041.000	104.1			90-110

Pace Analytical™

ILM - FORM 2B
DETECTION LIMIT CHECK

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

CRDL1 name: CRI CRDL1 time: 19-Oct-12 8:11

CRDL2 name: CRI CRDL2 time: 19-Oct-12 10:24

Concentration Units: ug/L

Analyte		DETECTION LIMIT CHECK True	Initial Found	%R	Final Found	%R	Limits
	182.034		101.50		-107.50		-
Aluminum	394.401	100.00	251.10	251.1 *	214.50	214.5 *	50-150
Antimony	206.833	10.00	9.75	97.5	10.19	101.9	50-150
Arsenic	189.042	5.00	4.92	98.4	6.54	130.8	50-150
Barium	493.409	5.00	8.15	163.0 *	4.43	88.6	50-150
Beryllium	313.107	5.00	4.95	99.0	5.16	103.1	50-150
Boron	249.678	25.00	27.73	110.9	24.97	99.9	50-150
Cadmium	226.502	5.00	5.14	102.8	5.31	106.3	50-150
Calcium	370.603	100.00	196.10	196.1 *	215.90	215.9 *	50-150
Chromium	267.716	10.00	8.83	88.3	9.90	99.0	50-150
Cobalt	237.862	10.00	15.09	150.9 *	8.74	87.3	50-150
Copper	327.396	10.00	10.40	104.0	10.36	103.6	50-150
Iron	259.837	50.00	99.23	198.5 *	101.50	203.0 *	50-150
Lead	220.353	5.00	4.91	98.2	5.34	106.7	50-150
Lithium	670.784	10.00	10.05	100.5	9.85	98.5	50-150
Magnesium	279.079	100.00	232.40	232.4 *	236.50	236.5 *	50-150
Manganese	293.930	10.00	10.16	101.6	10.77	107.7	50-150
Molybdenum	202.030	5.00	5.33	106.5	5.33	106.6	50-150
Nickel	231.604	5.00	5.05	101.1	5.19	103.9	50-150
Phosphorous	178.284		-2.19		-.04		50-150
Potassium	766.490	100.00	111.80	111.8	95.38	95.4	50-150
Selenium	206.279	20.00	18.15	90.8	21.66	108.3	50-150
Silicon	288.158		46.22		30.19		50-150
Silver	328.068	5.00	5.15	103.0	5.39	107.9	50-150
Sodium	589.592	100.00	65.01	65.0	-247.20	-247.2 *	50-150
Strontium	346.446	10.00	9.09	90.9	8.10	81.0	50-150
Thallium	190.856	5.00	4.67	93.4	4.93	98.6	50-150
Tin	189.989	10.00	9.91	99.1	10.52	105.2	50-150
Titanium	308.802	5.00	5.61	112.2	5.68	113.6	50-150
Vanadium	289.332	10.00	10.29	102.9	9.46	94.6	50-150
Zinc	206.200	10.00	7.76	77.6	6.83	68.3	50-150

Pace Analytical™

ILM - FORM 2B
DETECTION LIMIT CHECK

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

CRDL1 name: CRI CRDL1 time: 19-Oct-12 11:52

CRDL2 name: CRI CRDL2 time: 19-Oct-12 16:02

Concentration Units: ug/L

Analyte		DETECTION LIMIT CHECK True	Initial Found	%R	Final Found	%R	Limits
	182.034		-113.40		-97.49		-
Aluminum	394.401	100.00	273.10	273.1 *	245.00	245.0 *	50-150
Antimony	206.833	10.00	10.79	107.9	10.80	108.0	50-150
Arsenic	189.042	5.00	4.81	96.3	5.10	102.0	50-150
Barium	493.409	5.00	6.11	122.2	3.52	70.4	50-150
Beryllium	313.107	5.00	5.13	102.6	4.87	97.3	50-150
Boron	249.678	25.00	26.42	105.7	21.57	86.3	50-150
Cadmium	226.502	5.00	5.47	109.4	5.44	108.9	50-150
Calcium	370.603	100.00	263.40	263.4 *	236.40	236.4 *	50-150
Chromium	267.716	10.00	9.80	98.0	9.65	96.5	50-150
Cobalt	237.862	10.00	13.86	138.6	11.74	117.4	50-150
Copper	327.396	10.00	11.92	119.2	9.87	98.7	50-150
Iron	259.837	50.00	109.80	219.6 *	91.40	182.8 *	50-150
Lead	220.353	5.00	5.46	109.2	5.85	116.9	50-150
Lithium	670.784	10.00	9.56	95.6	9.67	96.7	50-150
Magnesium	279.079	100.00	246.30	246.3 *	217.70	217.7 *	50-150
Manganese	293.930	10.00	10.63	106.3	10.67	106.7	50-150
Molybdenum	202.030	5.00	5.33	106.6	5.57	111.3	50-150
Nickel	231.604	5.00	5.34	106.9	5.63	112.5	50-150
Phosphorous	178.284		.08		-.54		50-150
Potassium	766.490	100.00	85.49	85.5	88.71	88.7	50-150
Selenium	206.279	20.00	20.17	100.8	24.75	123.8	50-150
Silicon	288.158		29.33		31.65		50-150
Silver	328.068	5.00	5.26	105.3	5.65	113.1	50-150
Sodium	589.592	100.00	-223.80	-223.8 *	-188.00	-188.0 *	50-150
Strontium	346.446	10.00	10.99	109.9	10.23	102.3	50-150
Thallium	190.856	5.00	6.07	121.3	5.61	112.2	50-150
Tin	189.989	10.00	10.50	105.0	10.78	107.8	50-150
Titanium	308.802	5.00	4.99	99.8	5.40	108.0	50-150
Vanadium	289.332	10.00	7.43	74.3	8.68	86.8	50-150
Zinc	206.200	10.00	7.06	70.6	9.38	93.8	50-150

Pace Analytical™

ILM - FORM 3
CALIBRATION BLANKS

Lab Name: Pace Analytical Services, Inc.
Sequence: Q121019A.txt ICP
Concentration Units: ug/L

ICB name: ICB
CCB1 name: CCB
CCB2 name: CCB
CCB3 name: CCB

ICB time: 19-Oct-12 8:00
CCB1 time: 19-Oct-12 8:18
CCB2 time: 19-Oct-12 9:01
CCB3 time: 19-Oct-12 9:52

Analyte	Initial Calibration	Continuing Calibration			MDL	RRL
		1	2	3		
	3.885 X	2.682 X	.956 X	2.585 X		
Aluminum	32.120 B	53.160 B	36.070 B	34.040 B	8.60	200
Antimony	.026 U	-.075 U	.091 U	.374 U	1.35	60
Arsenic	.242 U	-.120 U	-.407 U	-.272 U	1.05	10
Barium	2.082 B	3.608 B	4.801 B	1.254 B	1.20	200
Beryllium	.266 U	.326 B	.191 U	.186 U	.28	5
Boron	4.574 U	2.734 U	12.760 B	3.434 U	5.16	50
Cadmium	.412 B	.408 B	.304 U	.298 U	.36	5
Calcium	-32.670 B	-7.362 U	-11.180 U	-33.820 B	15.06	5000
Chromium	-.413 U	-.938 U	-.388 U	.608 U	2.00	10
Cobalt	4.598 U	2.935 U	2.815 U	3.450 U	7.28	10
Copper	-.429 U	-2.116 U	1.142 U	.099 U	2.76	10
Iron	3.341 U	13.010 U	1.949 U	6.046 U	29.75	100
Lead	.871 U	.291 U	.515 U	.307 U	1.15	5
Lithium	.499 U	.150 U	.248 U	-.188 U	1.06	50
Magnesium	2.837 U	30.590 B	25.800 B	7.315 U	14.40	5000
Manganese	.318 U	.372 U	.320 U	.173 U	1.06	15
Molybdenum	.696 B	.731 B	.663 B	.654 B	.52	50
Nickel	.041 U	.315 B	.167 U	.373 B	.25	40
Phosphorous	-2.504 B	-1.845 B	-2.344 B	-1.200 B	.00	200
Potassium	22.010 U	16.120 U	27.580 U	4.056 U	32.65	5000
Selenium	-3.665 U	6.902 U	-2.023 U	10.500 U	14.31	35
Silicon	9.235 X	13.720 X	9.962 X	7.710 X		
Silver	.109 U	.129 U	.176 U	.152 U	.58	10
Sodium	-8.182 U	-28.640 B	1367.000 B	145.200 B	26.37	5000
Strontium	1.866 U	3.109 B	5.833 B	3.411 B	1.97	50
Thallium	.802 U	.376 U	.783 U	1.297 B	1.05	10
Tin	.365 U	.349 U	.280 U	.125 U	.93	50
Titanium	.336 U	.355 U	.086 U	.031 U	1.05	10
Vanadium	-.341 U	-2.423 U	.472 U	1.627 U	3.23	50
Zinc	.526 U	.499 U	.179 U	.047 U	3.52	20

U = Undetected at MDL B = detected Between MDL and RRL X if blank is above RRL

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Pace Analytical™

ILM - FORM 3
CALIBRATION BLANKS

Lab Name: Pace Analytical Services, Inc.
Sequence: Q121019A.txt ICP

ICB name: ICB
CCB1 name: CCB
CCB2 name: CCB
CCB3 name:

ICB time: 19-Oct-12 10:14
CCB1 time: 19-Oct-12 10:31
CCB2 time: 19-Oct-12 11:13
CCB3 time:

Concentration Units: ug/L

Analyte	Initial Calibration	Continuing Calibration			MDL	RRL
		1	2	3		
	-207.900 X	-208.600 X	-210.800 X			
Aluminum	-10.750 B	-1.074 U	-20.310 B		8.60	200
Antimony	.380 U	.221 U	1.324 U		1.35	60
Arsenic	1.280 B	.605 U	.801 U		1.05	10
Barium	.625 U	-1.370 B	.545 U		1.20	200
Beryllium	.333 B	.288 B	.352 B		.28	5
Boron	3.329 U	.835 U	-.856 U		5.16	50
Cadmium	.292 U	.223 U	.216 U		.36	5
Calcium	-25.840 B	1.444 U	6.358 U		15.06	5000
Chromium	-.106 U	-.049 U	.497 U		2.00	10
Cobalt	-2.979 U	-1.221 U	-3.238 U		7.28	10
Copper	1.379 U	.780 U	.757 U		2.76	10
Iron	5.476 U	16.320 U	5.905 U		29.75	100
Lead	-.034 U	.987 U	1.027 U		1.15	5
Lithium	.710 U	.466 U	1.004 U		1.06	50
Magnesium	1.863 U	13.960 U	2.820 U		14.40	5000
Manganese	.342 U	.363 U	.366 U		1.06	15
Molybdenum	.402 U	.330 U	.331 U		.52	50
Nickel	.349 B	.351 B	.013 U		.25	40
Phosphorous	-.070 B	-.557 B	2.015 B		.00	200
Potassium	10.330 U	2.693 U	-.493 U		32.65	5000
Selenium	7.407 U	-3.551 U	11.830 U		14.31	35
Silicon	-3.482 X	-2.678 X	-2.603 X			
Silver	.314 U	.345 U	.337 U		.58	10
Sodium	-229.300 B	-260.300 B	-247.700 B		26.37	5000
Strontium	1.751 U	-.073 U	-.472 U		1.97	50
Thallium	.313 U	-.209 U	-.518 U		1.05	10
Tin	.102 U	.358 U	.646 U		.93	50
Titanium	.205 U	.426 U	.782 U		1.05	10
Vanadium	3.082 U	-.044 U	-2.953 U		3.23	50
Zinc	-1.283 U	-.935 U	-.628 U		3.52	20

U = Undetected at MDL B = detected Between MDL and RRL X if blank is above RRL

ProDatPlus v. 10 10/19/2012 16:13:46

Pace Analytical™

ILM - FORM 3
CALIBRATION BLANKS

Lab Name: Pace Analytical Services, Inc.
Sequence: Q121019A.txt ICP
Concentration Units: ug/L

ICB name: ICB
CCB1 name: CCB
CCB2 name: CCB
CCB3 name: CCB

ICB time: 19-Oct-12 11:42
CCB1 time: 19-Oct-12 12:00
CCB2 time: 19-Oct-12 12:39
CCB3 time: 19-Oct-12 13:23

Analyte	Initial Calibration	Continuing Calibration			MDL	RRL
		1	2	3		
	-217.000 X	-214.400 X	-126.600 X	-129.200 X		
Aluminum	40.910 B	51.420 B	47.550 B	47.080 B	8.60	200
Antimony	.159 U	.435 U	.443 U	.653 U	1.35	60
Arsenic	-.863 U	-.936 U	.077 U	-1.201 B	1.05	10
Barium	.888 U	2.068 B	2.718 B	1.174 U	1.20	200
Beryllium	.308 B	.296 B	.169 U	.204 U	.28	5
Boron	2.620 U	-.708 U	.789 U	1.162 U	5.16	50
Cadmium	.234 U	.306 U	.195 U	.153 U	.36	5
Calcium	24.800 B	48.520 B	26.800 B	27.690 B	15.06	5000
Chromium	.018 U	.064 U	-.408 U	-.125 U	2.00	10
Cobalt	1.622 U	1.062 U	.060 U	-.685 U	7.28	10
Copper	.326 U	1.410 U	1.379 U	2.269 U	2.76	10
Iron	5.980 U	9.886 U	3.477 U	4.306 U	29.75	100
Lead	-.541 U	-.272 U	-.490 U	-.273 U	1.15	5
Lithium	.272 U	-.266 U	-.275 U	.320 U	1.06	50
Magnesium	17.130 B	21.720 B	20.100 B	14.800 B	14.40	5000
Manganese	.184 U	.308 U	.212 U	1.494 B	1.06	15
Molybdenum	.296 U	.277 U	.107 U	.275 U	.52	50
Nickel	.104 U	.017 U	-.054 U	-.157 U	.25	40
Phosphorous	.255 B	.007 B	-.407 B	.628 B	.00	200
Potassium	-1.597 U	-3.557 U	4.452 U	.344 U	32.65	5000
Selenium	2.568 U	-4.534 U	3.968 U	5.475 U	14.31	35
Silicon	2.414 X	4.504 X	-1.082 X	10.430 X		
Silver	.167 U	-.016 U	.048 U	.025 U	.58	10
Sodium	-227.100 B	-247.700 B	-165.600 B	-148.500 B	26.37	5000
Strontium	3.365 B	.808 U	1.156 U	1.328 U	1.97	50
Thallium	.589 U	.811 U	.404 U	-.441 U	1.05	10
Tin	.314 U	.364 U	.526 U	.368 U	.93	50
Titanium	.048 U	.979 U	.621 U	.912 U	1.05	10
Vanadium	2.344 U	-.589 U	-2.195 U	-.103 U	3.23	50
Zinc	-1.091 U	-1.040 U	-.372 U	9.315 B	3.52	20

U = Undetected at MDL B = detected Between MDL and RRL X if blank is above RRL

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Pace Analytical™

ILM - FORM 3
CALIBRATION BLANKS

Lab Name: Pace Analytical Services, Inc.
Sequence: Q121019A.txt ICP

Concentration Units: ug/L

ICB name:
CCB1 name: CCB
CCB2 name: CCB
CCB3 name: CCB

ICB time:
CCB1 time: 19-Oct-12 13:44
CCB2 time: 19-Oct-12 14:28
CCB3 time: 19-Oct-12 15:15

Analyte	Initial Calibration	Continuing Calibration			MDL	RRL
		1	2	3		
		-131.200 X	-132.600 X	-130.300 X		
Aluminum		43.390 B	47.750 B	38.140 B	8.60	200
Antimony		.441 U	-.311 U	.358 U	1.35	60
Arsenic		.250 U	-.598 U	-1.341 B	1.05	10
Barium		-.351 U	-1.259 B	-.786 U	1.20	200
Beryllium		.152 U	.220 U	.240 U	.28	5
Boron		1.027 U	1.771 U	.357 U	5.16	50
Cadmium		.268 U	.172 U	.197 U	.36	5
Calcium		23.910 B	31.020 B	36.930 B	15.06	5000
Chromium		.640 U	.539 U	.283 U	2.00	10
Cobalt		-.067 U	-1.121 U	1.432 U	7.28	10
Copper		1.240 U	1.409 U	2.368 U	2.76	10
Iron		4.374 U	4.521 U	.872 U	29.75	100
Lead		.227 U	-.516 U	-.511 U	1.15	5
Lithium		-.054 U	-.293 U	-.461 U	1.06	50
Magnesium		4.562 U	7.690 U	9.485 U	14.40	5000
Manganese		.448 U	.468 U	.488 U	1.06	15
Molybdenum		.047 U	.113 U	.231 U	.52	50
Nickel		-.110 U	.097 U	-.140 U	.25	40
Phosphorous		1.224 B	-.153 B	.844 B	.00	200
Potassium		-4.272 U	-4.931 U	2.304 U	32.65	5000
Selenium		2.164 U	2.462 U	4.412 U	14.31	35
Silicon		-.912 X	-1.915 X	-.522 X		
Silver		.103 U	.092 U	.081 U	.58	10
Sodium		-98.980 B	-99.900 B	-92.810 B	26.37	5000
Strontium		1.057 U	1.553 U	.634 U	1.97	50
Thallium		.194 U	.310 U	.053 U	1.05	10
Tin		.318 U	.308 U	.100 U	.93	50
Titanium		.354 U	-.066 U	.216 U	1.05	10
Vanadium		-1.783 U	.065 U	-1.577 U	3.23	50
Zinc		1.633 U	1.467 U	1.727 U	3.52	20

U = Undetected at MDL B = detected Between MDL and RRL X if blank is above RRL

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Pace Analytical™

ILM - FORM 3
CALIBRATION BLANKS

Lab Name: Pace Analytical Services, Inc.
Sequence: Q121019A.txt ICP

ICB name:
CCB1 name: CCB
CCB2 name:
CCB3 name:

ICB time:
CCB1 time: 19-Oct-12 16:09
CCB2 time:
CCB3 time:

Concentration Units: ug/L

Analyte	Initial Calibration	Continuing Calibration 1	2	3	MDL	RRL
		-126.100 X				
Aluminum		65.290 B			8.60	200
Antimony		.557 U			1.35	60
Arsenic		-1.470 B			1.05	10
Barium		-.469 U			1.20	200
Beryllium		.254 U			.28	5
Boron		.575 U			5.16	50
Cadmium		.156 U			.36	5
Calcium		38.100 B			15.06	5000
Chromium		-.451 U			2.00	10
Cobalt		-2.615 U			7.28	10
Copper		2.082 U			2.76	10
Iron		9.371 U			29.75	100
Lead		-.336 U			1.15	5
Lithium		-.240 U			1.06	50
Magnesium		17.460 B			14.40	5000
Manganese		.617 U			1.06	15
Molybdenum		.170 U			.52	50
Nickel		-.031 U			.25	40
Phosphorous		-.212 B			.00	200
Potassium		8.330 U			32.65	5000
Selenium		-1.583 U			14.31	35
Silicon		-.870 X				
Silver		.123 U			.58	10
Sodium		-137.000 B			26.37	5000
Strontium		3.038 B			1.97	50
Thallium		.238 U			1.05	10
Tin		.089 U			.93	50
Titanium		.398 U			1.05	10
Vanadium		-3.081 U			3.23	50
Zinc		1.684 U			3.52	20

U = Undetected at MDL B = detected Between MDL and RRL X if blank is above RRL

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Pace Analytical™

ILM - Form 4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

Initial A: ICSA ICSA time: 19-Oct-12 8:04

Initial AB: ICSAB ICSAB time 19-Oct-12 8:07

Concentration Units: ug/L

Final A: ICSA ICSA time: 19-Oct-12 10:17

Final AB: ICSAB ICSAB time: 19-Oct-12 10:21

Analyte	True ICSA	True ICSAB	Initial Found ICSA	Initial Found ICSAB	%R ICSAB	Final Found ICSA	Final Found ICSAB	%R ICSAB	Limits
			-117.4	-135.2		-333.1	-350.6		-
Aluminum	500000	500000	494300.0	490300.0	98.1	493600.0	490400.0	98.1	70-130
Antimony		1000	12.1	845.6	84.6	11.8	864.5	86.5	50-150
Arsenic		1000	-1.1	820.3	82.0	-.1	844.3	84.4	70-130
Barium		1000	2.5	917.8	91.8	-1.6	911.4	91.1	70-130
Beryllium		1000	.0	862.5	86.3	.1	875.8	87.6	70-130
Boron		1000	-30.3	777.5	77.8	-28.1	770.9	77.1	50-150
Cadmium		1000	5.5	736.1	73.6	7.8	756.3	75.6	70-130
Calcium	500000	500000	461100.0	455500.0	91.1	459500.0	458500.0	91.7	70-130
Chromium		1000	1.0	837.7	83.8	1.5	849.3	84.9	70-130
Cobalt		1000	17.9	854.2	85.4	15.7	847.7	84.8	70-130
Copper		1000	.9	940.1	94.0	2.3	920.2	92.0	70-130
Iron	200000	200000	173000.0	171000.0	85.5	170700.0	170100.0	85.1	70-130
Lead		1000	-12.2	697.4	69.7	-13.3	709.7	71.0	50-150
Lithium			6.6	985.1		6.8	979.2		-
Magnesium	500000	500000	489900.0	483000.0	96.6	489100.0	487100.0	97.4	70-130
Manganese		1000	-.9	760.5	76.1	-1.1	779.4	77.9	70-130
Molybdenum		1000	-1.5	795.8	79.6	-1.6	815.0	81.5	70-130
Nickel		1000	-.9	709.8	71.0	-1.4	732.2	73.2	70-130
Phosphorous			-2.7	797.4		.7	816.2		-
Potassium			-42.6	-33.4		-35.6	-29.1		-
Selenium		1000	13.6	789.6	79.0	-.4	810.5	81.1	70-130
Silicon		1000	18.9	3671.0	367.1 *	10.8	3741.0	374.1 *	50-150
Silver		500	-.2	454.7	90.9	.0	468.6	93.7	70-130
Sodium		1000	90.6	32.4	3.2 *	-189.2	-248.8	-24.9 *	70-130
Strontium			4.3	849.8		1.8	850.3		-
Thallium		1000	-2.4	658.8	65.9	-.9	664.8	66.5	50-150
Tin		1000	1.7	736.0	73.6	1.5	756.7	75.7	70-130
Titanium		1000	.1	889.5	89.0	-.1	882.9	88.3	70-130
Vanadium		1000	-4.3	855.9	85.6	-.6	872.0	87.2	70-130
Zinc		1000	-3.2	706.2	70.6	-4.8	732.6	73.3	70-130

Pace Analytical™

ILM - Form 4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt ICP

Initial A: ICSA ICSA time: 19-Oct-12 11:45

Initial AB: ICSAB ICSAB time 19-Oct-12 11:49

Concentration Units: ug/L

Final A: ICSA ICSA time: 19-Oct-12 15:55

Final AB: ICSAB ICSAB time: 19-Oct-12 15:59

Analyte	True ICSA	True ICSAB	Initial Found ICSA	Initial Found ICSAB	%R ICSAB	Final Found ICSA	Final Found ICSAB	%R ICSAB	Limits
			-338.6	-358.6		-240.6	-342.0		-
Aluminum	500000	500000	492600.0	485400.0	97.1	466900.0	465800.0	93.2	70-130
Antimony		1000	13.8	866.3	86.6	13.4	871.6	87.2	50-150
Arsenic		1000	-5.2	860.0	86.0	-3.7	892.7	89.3	70-130
Barium		1000	1.2	906.8	90.7	-1.7	871.4	87.1	70-130
Beryllium		1000	.0	881.7	88.2	.0	832.3	83.2	70-130
Boron		1000	-36.7	757.8	75.8	-38.9	666.5	66.7	50-150
Cadmium		1000	4.1	768.8	76.9	4.5	761.5	76.2	70-130
Calcium	500000	500000	463100.0	458500.0	91.7	440700.0	439100.0	87.8	70-130
Chromium		1000	1.8	868.2	86.8	1.7	827.5	82.8	70-130
Cobalt		1000	11.2	851.3	85.1	1.5	749.7	75.0	70-130
Copper		1000	4.1	911.6	91.2	1.7	849.6	85.0	70-130
Iron	200000	200000	174000.0	172000.0	86.0	156400.0	155500.0	77.8	70-130
Lead		1000	-7.2	732.2	73.2	1.5	731.6	73.2	50-150
Lithium			6.5	973.8		6.6	963.0		-
Magnesium	500000	500000	498000.0	493300.0	98.7	455800.0	453200.0	90.6	70-130
Manganese		1000	-.6	793.0	79.3	-.5	780.7	78.1	70-130
Molybdenum		1000	-1.5	833.7	83.4	-1.8	858.1	85.8	70-130
Nickel		1000	-1.2	751.7	75.2	-.6	784.6	78.5	70-130
Phosphorous			2.2	837.6		-.5	917.6		-
Potassium			-42.1	-40.2		-43.0	-46.6		-
Selenium		1000	23.5	831.6	83.2	21.4	871.8	87.2	70-130
Silicon		1000	9.7	3715.0	371.5 *	7.3	3462.0	346.2 *	50-150
Silver		500	-.1	474.0	94.8	-.2	488.9	97.8	70-130
Sodium		1000	-157.5	-242.8	-24.3 *	148.3	-171.7	-17.2 *	70-130
Strontium			3.9	860.0		3.0	820.1		-
Thallium		1000	.4	680.4	68.0	-.8	687.6	68.8	50-150
Tin		1000	2.3	777.5	77.8	1.6	785.8	78.6	70-130
Titanium		1000	-.4	893.3	89.3	-.7	860.0	86.0	70-130
Vanadium		1000	-6.6	879.6	88.0	-6.0	828.5	82.9	70-130
Zinc		1000	-4.0	756.6	75.7	-3.8	757.5	75.8	70-130

Pace Analytical™

ILM - FORM 8
ICP SERIAL DILUTION

Lab Name: Pace Analytical Services, Inc.

Sequence: Q121019A.txt

Sample: 201033121

Concentration Units: ug/L

Analyte	Initial Found	Final Found	MDL Limit	% Difference	Max	Q
Aluminum	90.31	202.30	429.85	124.0		
Antimony	-0.57	-1.61	67.70	182.3		
Arsenic	1.00	3.42	52.25	243.4		
Barium	17460.00	19460.00	59.80	11.5	10	E
Beryllium	0.05	1.61	14.10	3038.4		
Boron	7082.00	7495.00	257.90	5.8	10	
Cadmium	0.10	1.49	18.05	1425.1		
Calcium	146300.00	162800.00	752.90	11.3	10	E
Chromium	0.05	-3.00	99.90	6104.0		
Cobalt	4.45	9.64	364.10	116.5		
Copper	10.76	14.16	137.75	31.6		
Iron	241.20	279.00	1487.40	15.7		
Lead	-1.83	0.25	57.50	113.9		
Lithium	341.50	332.60	52.90	2.6	10	
Magnesium	92910.00	101500.00	720.10	9.2	10	
Manganese	23.13	31.09	52.90	34.4		
Molybdenum	0.08	2.47	26.00	2831.2		
Nickel	-0.09	1.25	12.65	1440.8		
Phosphorous	84.64	97.80	0.00	15.5	10	E
Potassium	36040.00	34170.00	1632.60	5.2	10	
Selenium	9.81	69.55	715.60	608.9		
Silicon	4282.00	4106.00		4.1		
Silver	0.04	0.57	28.95	1517.2		
Sodium	1207000.00	4953000.00	1318.25	310.4	10	E
Strontium	33350.00	37260.00	98.55	11.7	10	E
Thallium	0.52	3.84	52.45	632.5		
Tin	0.40	0.69	46.50	73.0		
Titanium	-0.46	-0.78	52.50	68.3		
Vanadium	0.85	5.22	161.40	515.0		
Zinc	5.21	5.69	175.75	9.2		

E = Serial dilution %D exceeds 10% and the concentration exceeds 50x MDL

ProDatPlus v: 10 10/19/2012 16:13:48

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

Chains of Custody

Pace Analytical
www.pacelabs.com

CI

2014S546 98-GES PR

Section A
Required Client Information

Company: GESPR
Address: 115 Ave Long de Logan
Suite 201 San Juan P.R.
Email: Oregon@gesborlaw.com
Telephone: 787-72-1918 Fax: no
Requested Due Date/TAT: STD

Section B
Required Project Information

Report To: Oney Vargas / GESPR
Copy To: Efram Cruz
Purchase Order No.:
Project Name: SRS Site Tested
Project Number: 7100398

Invoice Information

Attention: Oney Vargas / GESPR
Company Name: GESPR
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: Jon Lefebvre

Page: of

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REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA ✓ OTHER EQP

Site Location STATE: Site Tested P.R.

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AIR
Tissue TS
Other OT

Sample Type (G=GRAB C=COMP)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
1	TB-101712	WT	G			10/17/12	—	2				X							X	01
2	EB-101712	WT	G			10/17/12	0720	3			X	X							X X	02
3	GWMW-3-1	WT	G			10/17/12	0804	3			X	X							X X	03
4	GWMW-3-2	WT	G			10/17/12	0807	3			X	X							X X	04
5	FB-101712	WT	G			10/17/12	0814	3			X	X							X X	05
6	GWMW-2-1	WT	G			10/17/12	0843	3			X	X							X X	06
7	GWMW-2-2	WT	G			10/17/12	0850	3			X	X							X X	07
8																				
9																				
10																				
11																				
12																				

Analysis Test: VOC 8260, Metals 200.7

2014S541
Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jose Bonilla / GESPR	10/18/12	11:00 am	Pablo Santiago / Pace	10/18/12	11:00 am	Y W Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jose Bonilla - GESPR

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/18/12

Temperature in C | Received on Ice (Y/N) | Custody Seals Intact (Y/N) | Samples Intact (Y/N)

20145546 98-OES PR

Pace Analytical

Sample Condition

Project #: 20

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

Custody Seal on Cooler/Box Present: [see COC] Custody Seals Intact: ☐Yes ☐No

Thermometer Used: ☐ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☑ Therm Fisher IR 3

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: 10/7/12

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 manufacture'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 preservative 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 05, 12Jun2008pr - med