

November 01, 2006

Michelle Anghera  
Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Subject: **Calscience Work Order No.: 06-10-0488**  
Client Reference: **POLB / TMDL Support**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/9/2006 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Stearns', is written over a horizontal line.

Calscience Environmental  
Laboratories, Inc.  
Robert Stearns  
Project Manager



## CASE NARRATIVE

**Calscience Work Order No.: 06-10-0488**

Provided below is a narrative of our analytical effort, including any unique features or anomalies encountered as part of the analysis of the seawater samples.

### ***Sample Condition on Receipt***

Four seawater samples were received for this project on October 9, 2006. Each of the samples was contained in assorted containers, appropriately preserved. All samples were transferred to the laboratory in an ice-chest with wet ice, following strict chain-of-custody (COC) procedures. The temperature of the samples upon receipt at the laboratory ranged from 2.5° to 2.6°C.

The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

No anomalies were identified upon sample receipt.

### ***Data Summary***

Only three of the four samples received were tested, in accordance with the client's instructions. The following testing was performed in accordance with a pre-established analytical plan:

Oil and Grease by EPA 413.1  
Total Organic Carbon by EPA 415.1  
Dissolved Organic Carbon by EPA 415.1  
DRO by EPA 8015B  
GRO by EPA 8015B  
Organochlorine Pesticides and PCBs by EPA 8081A/8082  
Semi-volatile Organics (SVOCs) by EPA 8270C  
Organotins by Krone et.al.  
PCB Congeners by EPA 625  
Metals by EPA 6020

Testing for metals and PCB Congeners was performed by CRG Marine Laboratories in Torrance, California. This report is attached.

### Holding times

All holding time requirements were met.

### Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

### Blanks

Concentrations of target analytes in the method blanks were found to be below reporting limits for all testing, with the exception of the SVOCs. In this case, a trace amount of Bis(2-Ethylhexyl) Phthalate was found in the method blank. This compound did not appear in any of the samples, so its presence in the method blank did not affect the data.

### Laboratory Control Samples

Laboratory Control Sample analyses were performed for each applicable method at the required frequencies. All parameters were within control limits for each method.

### Matrix Spikes

Matrix spike analyses were performed at required frequencies. In all cases, a project sample was spiked. The matrix spike recoveries and RPDs were in control for each parameter with the following exceptions.

For the SVOCs by EPA 8270C, the duplicate RPDs for several of the spiked compounds fell outside of the established control limit for each compound. However, the corresponding LCS/LCSD recoveries and duplicate RPDs were in control, suggesting a matrix interference effect, and the data is thus released with no further qualification.

For the organotins by Krone et.al., the duplicate RPDs for each of the spiked compounds were above the control limit for each compound. Also, the MSD for tetrabutyltin was lower than the established control limit. However, the corresponding LCS/LCSD recoveries and duplicate RPDs were in control, indicating a matrix interference effect, and the data is thus released with no further action.

All other matrix spike recoveries and RPDs were in control.

TOC vs. DOC

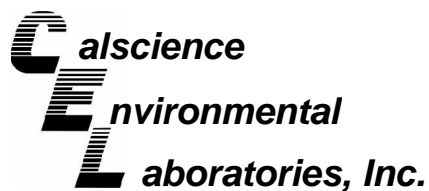
The concentration of DOC slightly exceeded the concentration of TOC in each sample. This anomaly may be attributable to the contribution of DOC from the filter used during filtration.

Surrogates

Surrogate recoveries for all applicable tests and samples were within acceptable control limits.

Acronyms

SVOC:	Semi-volatile Organic Compound
MS/MSD:	Matrix Spike/Matrix Spike Duplicate
LCS/LCSD:	Laboratory Control Sample/Laboratory Control Sample Duplicate
RPD:	Relative Percent Difference



## Analytical Report



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 5030B  
Method: EPA 8015B

Project: POLB / TMDL Support

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
<b>LBM-2</b>	<b>06-10-0488-1</b>	<b>10/09/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/10/06</b>	<b>061010B01</b>

Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	38-134	

<b>LBO-2</b>	<b>06-10-0488-2</b>	<b>10/09/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/10/06</b>	<b>061010B01</b>
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	85	38-134	

<b>LBI-10</b>	<b>06-10-0488-4</b>	<b>10/07/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/10/06</b>	<b>061010B01</b>
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics	ND	50	1		ug/L

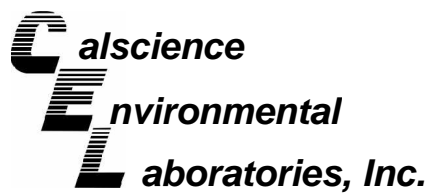
Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	86	38-134	

<b>Method Blank</b>	<b>099-12-022-231</b>	<b>N/A</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/10/06</b>	<b>061010B01</b>
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Parameter	Result	RL	DF	Qual	Units
Gasoline Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	91	38-134	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: POLB / TMDL Support

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
<b>LBM-2</b>	<b>06-10-0488-1</b>	<b>10/09/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/11/06</b>	<b>061010B06</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	134	68-140			

<b>LBO-2</b>	<b>06-10-0488-2</b>	<b>10/09/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/11/06</b>	<b>061010B06</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	74	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	126	68-140			

<b>LBI-10</b>	<b>06-10-0488-4</b>	<b>10/07/06</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/11/06</b>	<b>061010B06</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	54	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	127	68-140			

<b>Method Blank</b>	<b>099-12-211-15</b>	<b>N/A</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/10/06</b>	<b>061010B06</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	101	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

# Analytical Report



Weston Solutions  
 2433 Impala Drive  
 Carlsbad, CA 92008-7227

Date Received: 10/09/06  
 Work Order No: 06-10-0488  
 Preparation: EPA 3510B  
 Method: EPA 8270C  
 Units: ug/L

Project: POLB / TMDL Support

Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBM-2	06-10-0488-1	10/09/06	Aqueous	10/10/06	10/13/06	061010L09

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	0.55	1		2,4-Dinitrotoluene	ND	5.0	0.50	1	
Phenol	ND	5.0	0.58	1		2,6-Dinitrotoluene	ND	5.0	0.56	1	
Bis(2-Chloroethyl) Ether	ND	10	0.51	1		Diethyl Phthalate	ND	5.0	0.70	1	
2-Chlorophenol	ND	5.0	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	0.61	1	
1,3-Dichlorobenzene	ND	5.0	0.58	1		Fluorene	ND	5.0	0.69	1	
1,4-Dichlorobenzene	ND	5.0	0.57	1		4,6-Dinitro-2-Methylphenol	ND	25	1.7	1	
1,2-Dichlorobenzene	ND	5.0	0.56	1		N-Nitrosodiphenylamine	ND	5.0	0.68	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	0.76	1		4-Bromophenyl-Phenyl Ether	ND	5.0	0.61	1	
N-Nitroso-di-n-propylamine	ND	5.0	0.65	1		Hexachlorobenzene	ND	5.0	0.61	1	
Hexachloroethane	ND	5.0	0.49	1		Pentachlorophenol	ND	5.0	0.37	1	
Nitrobenzene	ND	25	0.67	1		Phenanthrene	ND	5.0	0.75	1	
Isophorone	ND	5.0	0.62	1		Anthracene	ND	5.0	0.75	1	
2-Nitrophenol	ND	10	0.59	1		Di-n-Butyl Phthalate	ND	5.0	0.73	1	
2,4-Dimethylphenol	ND	5.0	0.60	1		Fluoranthene	ND	5.0	0.76	1	
Bis(2-Chloroethoxy) Methane	ND	10	0.58	1		Benidine	ND	50	0.31	1	
2,4-Dichlorophenol	ND	5.0	0.53	1		Pyrene	ND	5.0	0.68	1	
1,2,4-Trichlorobenzene	ND	5.0	0.65	1		Butyl Benzyl Phthalate	ND	5.0	0.52	1	
1,2-Diphenylhydrazine	ND	2.0	0.19	1		3,3'-Dichlorobenzidine	ND	5.0	0.63	1	
Naphthalene	ND	5.0	0.72	1		Benzo (a) Anthracene	ND	5.0	0.56	1	
Hexachloro-1,3-Butadiene	ND	5.0	0.59	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.51	1	
4-Chloro-3-Methylphenol	ND	5.0	0.58	1		Chrysene	ND	5.0	0.64	1	
Hexachlorocyclopentadiene	ND	15	0.22	1		Di-n-Octyl Phthalate	ND	5.0	0.50	1	
2,4,6-Trichlorophenol	ND	5.0	0.61	1		Benzo (k) Fluoranthene	ND	5.0	0.85	1	
2-Chloronaphthalene	ND	5.0	0.65	1		Benzo (b) Fluoranthene	ND	5.0	0.62	1	
Dimethyl Phthalate	ND	5.0	0.65	1		Benzo (a) Pyrene	ND	5.0	0.44	1	
Acenaphthylene	ND	5.0	0.72	1		Benzo (g,h,i) Perylene	ND	5.0	0.36	1	
Acenaphthene	ND	5.0	0.70	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	0.42	1	
2,4-Dinitrophenol	ND	25	1.3	1		Dibenz (a,h) Anthracene	ND	5.0	0.41	1	
4-Nitrophenol	ND	5.0	0.43	1							
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2-Fluorophenol	69	15-138				Phenol-d6	50	17-141			
Nitrobenzene-d5	88	56-123				2-Fluorobiphenyl	80	45-120			
2,4,6-Tribromophenol	92	32-143				p-Terphenyl-d14	80	46-133			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

# Analytical Report



Weston Solutions  
 2433 Impala Drive  
 Carlsbad, CA 92008-7227

Date Received: 10/09/06  
 Work Order No: 06-10-0488  
 Preparation: EPA 3510B  
 Method: EPA 8270C  
 Units: ug/L

Project: POLB / TMDL Support

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBO-2	06-10-0488-2	10/09/06	Aqueous	10/10/06	10/13/06	061010L09

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	0.55	1		2,4-Dinitrotoluene	ND	5.0	0.50	1	
Phenol	ND	5.0	0.58	1		2,6-Dinitrotoluene	ND	5.0	0.56	1	
Bis(2-Chloroethyl) Ether	ND	10	0.51	1		Diethyl Phthalate	ND	5.0	0.70	1	
2-Chlorophenol	ND	5.0	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	0.61	1	
1,3-Dichlorobenzene	ND	5.0	0.58	1		Fluorene	ND	5.0	0.69	1	
1,4-Dichlorobenzene	ND	5.0	0.57	1		4,6-Dinitro-2-Methylphenol	ND	25	1.7	1	
1,2-Dichlorobenzene	ND	5.0	0.56	1		N-Nitrosodiphenylamine	ND	5.0	0.68	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	0.76	1		4-Bromophenyl-Phenyl Ether	ND	5.0	0.61	1	
N-Nitroso-di-n-propylamine	ND	5.0	0.65	1		Hexachlorobenzene	ND	5.0	0.61	1	
Hexachloroethane	ND	5.0	0.49	1		Pentachlorophenol	ND	5.0	0.37	1	
Nitrobenzene	ND	25	0.67	1		Phenanthrene	ND	5.0	0.75	1	
Isophorone	ND	5.0	0.62	1		Anthracene	ND	5.0	0.75	1	
2-Nitrophenol	ND	10	0.59	1		Di-n-Butyl Phthalate	ND	5.0	0.73	1	
2,4-Dimethylphenol	ND	5.0	0.60	1		Fluoranthene	ND	5.0	0.76	1	
Bis(2-Chloroethoxy) Methane	ND	10	0.58	1		Benidine	ND	50	0.31	1	
2,4-Dichlorophenol	ND	5.0	0.53	1		Pyrene	ND	5.0	0.68	1	
1,2,4-Trichlorobenzene	ND	5.0	0.65	1		Butyl Benzyl Phthalate	ND	5.0	0.52	1	
1,2-Diphenylhydrazine	ND	2.0	0.19	1		3,3'-Dichlorobenzidine	ND	5.0	0.63	1	
Naphthalene	ND	5.0	0.72	1		Benzo (a) Anthracene	ND	5.0	0.56	1	
Hexachloro-1,3-Butadiene	ND	5.0	0.59	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.51	1	
4-Chloro-3-Methylphenol	ND	5.0	0.58	1		Chrysene	ND	5.0	0.64	1	
Hexachlorocyclopentadiene	ND	15	0.22	1		Di-n-Octyl Phthalate	ND	5.0	0.50	1	
2,4,6-Trichlorophenol	ND	5.0	0.61	1		Benzo (k) Fluoranthene	ND	5.0	0.85	1	
2-Chloronaphthalene	ND	5.0	0.65	1		Benzo (b) Fluoranthene	ND	5.0	0.62	1	
Dimethyl Phthalate	ND	5.0	0.65	1		Benzo (a) Pyrene	ND	5.0	0.44	1	
Acenaphthylene	ND	5.0	0.72	1		Benzo (g,h,i) Perylene	ND	5.0	0.36	1	
Acenaphthene	ND	5.0	0.70	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	0.42	1	
2,4-Dinitrophenol	ND	25	1.3	1		Dibenz (a,h) Anthracene	ND	5.0	0.41	1	
4-Nitrophenol	ND	5.0	0.43	1							
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2-Fluorophenol	62	15-138				Phenol-d6	43	17-141			
Nitrobenzene-d5	86	56-123				2-Fluorobiphenyl	77	45-120			
2,4,6-Tribromophenol	87	32-143				p-Terphenyl-d14	74	46-133			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: EPA 8270C  
Units: ug/L

Project: POLB / TMDL Support

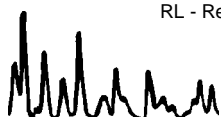
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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBI-10	06-10-0488-4	10/07/06	Aqueous	10/10/06	10/13/06	061010L09

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	0.55	1		2,4-Dinitrotoluene	ND	5.0	0.50	1	
Phenol	ND	5.0	0.58	1		2,6-Dinitrotoluene	ND	5.0	0.56	1	
Bis(2-Chloroethyl) Ether	ND	10	0.51	1		Diethyl Phthalate	ND	5.0	0.70	1	
2-Chlorophenol	ND	5.0	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	0.61	1	
1,3-Dichlorobenzene	ND	5.0	0.58	1		Fluorene	ND	5.0	0.69	1	
1,4-Dichlorobenzene	ND	5.0	0.57	1		4,6-Dinitro-2-Methylphenol	ND	25	1.7	1	
1,2-Dichlorobenzene	ND	5.0	0.56	1		N-Nitrosodiphenylamine	ND	5.0	0.68	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	0.76	1		4-Bromophenyl-Phenyl Ether	ND	5.0	0.61	1	
N-Nitroso-di-n-propylamine	ND	5.0	0.65	1		Hexachlorobenzene	ND	5.0	0.61	1	
Hexachloroethane	ND	5.0	0.49	1		Pentachlorophenol	ND	5.0	0.37	1	
Nitrobenzene	ND	25	0.67	1		Phenanthrene	ND	5.0	0.75	1	
Isophorone	ND	5.0	0.62	1		Anthracene	ND	5.0	0.75	1	
2-Nitrophenol	ND	10	0.59	1		Di-n-Butyl Phthalate	ND	5.0	0.73	1	
2,4-Dimethylphenol	ND	5.0	0.60	1		Fluoranthene	ND	5.0	0.76	1	
Bis(2-Chloroethoxy) Methane	ND	10	0.58	1		Benidine	ND	50	0.31	1	
2,4-Dichlorophenol	ND	5.0	0.53	1		Pyrene	ND	5.0	0.68	1	
1,2,4-Trichlorobenzene	ND	5.0	0.65	1		Butyl Benzyl Phthalate	ND	5.0	0.52	1	
1,2-Diphenylhydrazine	ND	2.0	0.19	1		3,3'-Dichlorobenzidine	ND	5.0	0.63	1	
Naphthalene	ND	5.0	0.72	1		Benzo (a) Anthracene	ND	5.0	0.56	1	
Hexachloro-1,3-Butadiene	ND	5.0	0.59	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.51	1	
4-Chloro-3-Methylphenol	ND	5.0	0.58	1		Chrysene	ND	5.0	0.64	1	
Hexachlorocyclopentadiene	ND	15	0.22	1		Di-n-Octyl Phthalate	ND	5.0	0.50	1	
2,4,6-Trichlorophenol	ND	5.0	0.61	1		Benzo (k) Fluoranthene	ND	5.0	0.85	1	
2-Chloronaphthalene	ND	5.0	0.65	1		Benzo (b) Fluoranthene	ND	5.0	0.62	1	
Dimethyl Phthalate	ND	5.0	0.65	1		Benzo (a) Pyrene	ND	5.0	0.44	1	
Acenaphthylene	ND	5.0	0.72	1		Benzo (g,h,i) Perylene	ND	5.0	0.36	1	
Acenaphthene	ND	5.0	0.70	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	0.42	1	
2,4-Dinitrophenol	ND	25	1.3	1		Dibenz (a,h) Anthracene	ND	5.0	0.41	1	
4-Nitrophenol	ND	5.0	0.43	1							
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
2-Fluorophenol	65	15-138				Phenol-d6	46	17-141			
Nitrobenzene-d5	86	56-123				2-Fluorobiphenyl	79	45-120			
2,4,6-Tribromophenol	90	32-143				p-Terphenyl-d14	78	46-133			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



# Analytical Report



Weston Solutions  
 2433 Impala Drive  
 Carlsbad, CA 92008-7227

Date Received: 10/09/06  
 Work Order No: 06-10-0488  
 Preparation: EPA 3510B  
 Method: EPA 8270C  
 Units: ug/L

Project: POLB / TMDL Support

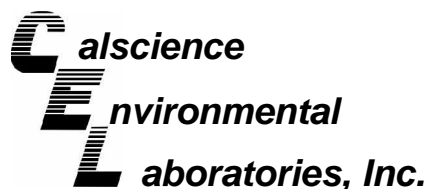
Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-03-006-205	N/A	Aqueous	10/10/06	10/12/06	061010L09

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
N-Nitrosodimethylamine	ND	10	0.55	1		2,4-Dinitrotoluene	ND	5.0	0.50	1	
Phenol	ND	5.0	0.58	1		2,6-Dinitrotoluene	ND	5.0	0.56	1	
Bis(2-Chloroethyl) Ether	ND	10	0.51	1		Diethyl Phthalate	ND	5.0	0.70	1	
2-Chlorophenol	ND	5.0	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	5.0	0.61	1	
1,3-Dichlorobenzene	ND	5.0	0.58	1		Fluorene	ND	5.0	0.69	1	
1,4-Dichlorobenzene	ND	5.0	0.57	1		4,6-Dinitro-2-Methylphenol	ND	25	1.7	1	
1,2-Dichlorobenzene	ND	5.0	0.56	1		N-Nitrosodiphenylamine	ND	5.0	0.68	1	
Bis(2-Chloroisopropyl) Ether	ND	5.0	0.76	1		4-Bromophenyl-Phenyl Ether	ND	5.0	0.61	1	
N-Nitroso-di-n-propylamine	ND	5.0	0.65	1		Hexachlorobenzene	ND	5.0	0.61	1	
Hexachloroethane	ND	5.0	0.49	1		Pentachlorophenol	ND	5.0	0.37	1	
Nitrobenzene	ND	25	0.67	1		Phenanthrene	ND	5.0	0.75	1	
Isophorone	ND	5.0	0.62	1		Anthracene	ND	5.0	0.75	1	
2-Nitrophenol	ND	10	0.59	1		Di-n-Butyl Phthalate	ND	5.0	0.73	1	
2,4-Dimethylphenol	ND	5.0	0.60	1		Fluoranthene	ND	5.0	0.76	1	
Bis(2-Chloroethoxy) Methane	ND	10	0.58	1		Benidine	ND	50	0.31	1	
2,4-Dichlorophenol	ND	5.0	0.53	1		Pyrene	ND	5.0	0.68	1	
1,2,4-Trichlorobenzene	ND	5.0	0.65	1		Butyl Benzyl Phthalate	ND	5.0	0.52	1	
Naphthalene	ND	5.0	0.72	1		3,3'-Dichlorobenzidine	ND	5.0	0.63	1	
Hexachloro-1,3-Butadiene	ND	5.0	0.59	1		Benzo (a) Anthracene	ND	5.0	0.56	1	
4-Chloro-3-Methylphenol	ND	5.0	0.58	1		Bis(2-Ethylhexyl) Phthalate	0.92	5.0	0.51	1	J
Hexachlorocyclopentadiene	ND	15	0.22	1		Chrysene	ND	5.0	0.64	1	
2,4,6-Trichlorophenol	ND	5.0	0.61	1		Di-n-Octyl Phthalate	ND	5.0	0.50	1	
2-Chloronaphthalene	ND	5.0	0.65	1		Benzo (k) Fluoranthene	ND	5.0	0.85	1	
Dimethyl Phthalate	ND	5.0	0.65	1		Benzo (b) Fluoranthene	ND	5.0	0.62	1	
Acenaphthylene	ND	5.0	0.72	1		Benzo (a) Pyrene	ND	5.0	0.44	1	
Acenaphthene	ND	5.0	0.70	1		Benzo (g,h,i) Perylene	ND	5.0	0.36	1	
2,4-Dinitrophenol	ND	25	1.3	1		Indeno (1,2,3-c,d) Pyrene	ND	5.0	0.42	1	
4-Nitrophenol	ND	5.0	0.43	1		Dibenz (a,h) Anthracene	ND	5.0	0.41	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
2-Fluorophenol	74	15-138				Phenol-d6	52	17-141			
Nitrobenzene-d5	89	56-123				2-Fluorobiphenyl	91	45-120			
2,4,6-Tribromophenol	101	32-143				p-Terphenyl-d14	78	46-133			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: Organotins by Krone  
Units: ng/L

Project: POLB / TMDL Support

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBM-2	06-10-0488-1	10/09/06	Aqueous	10/11/06	10/13/06	061011L06

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Dibutyltin	ND	3.0	0.98	1		Tetrabutyltin	ND	3.0	0.43	1	
Monobutyltin	ND	3.0	0.98	1		Tributyltin	ND	3.0	0.97	1	
Surrogates:	REC (%)	Control Limits			Qual						
Triphenyltin	65	50-130									

LBO-2	06-10-0488-2	10/09/06	Aqueous	10/11/06	10/13/06	061011L06
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Dibutyltin	ND	3.0	0.98	1		Tetrabutyltin	ND	3.0	0.43	1	
Monobutyltin	ND	3.0	0.98	1		Tributyltin	ND	3.0	0.97	1	
Surrogates:	REC (%)	Control Limits			Qual						
Triphenyltin	71	50-130									

LBI-10	06-10-0488-4	10/07/06	Aqueous	10/11/06	10/13/06	061011L06
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Dibutyltin	ND	3.0	0.98	1		Tetrabutyltin	ND	3.0	0.43	1	
Monobutyltin	ND	3.0	0.98	1		Tributyltin	ND	3.0	0.97	1	
Surrogates:	REC (%)	Control Limits			Qual						
Triphenyltin	76	50-130									

Method Blank	099-07-035-38	N/A	Aqueous	10/11/06	10/12/06	061011L06
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Dibutyltin	ND	3.0	0.98	1		Tetrabutyltin	ND	3.0	0.43	1	
Monobutyltin	ND	3.0	0.98	1		Tributyltin	ND	3.0	0.97	1	
Surrogates:	REC (%)	Control Limits			Qual						
Triphenyltin	86	50-130									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

# Analytical Report



Weston Solutions  
 2433 Impala Drive  
 Carlsbad, CA 92008-7227

Date Received: 10/09/06  
 Work Order No: 06-10-0488  
 Preparation: EPA 3510B  
 Method: EPA 8081A/8082  
 Units: ug/L

Project: POLB / TMDL Support

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBM-2	06-10-0488-1	10/09/06	Aqueous	10/10/06	10/14/06	061010L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.050	0.013	1		4,4'-DDT	ND	0.050	0.015	1	
Gamma-BHC	ND	0.050	0.020	1		Endosulfan Sulfate	ND	0.050	0.0079	1	
Beta-BHC	ND	0.050	0.0082	1		Chlordane	ND	0.50	0.085	1	
Heptachlor	ND	0.050	0.0074	1		Toxaphene	ND	2.0	0.31	1	
Delta-BHC	ND	0.050	0.018	1		Aroclor-1016	ND	0.50	0.077	1	
Aldrin	ND	0.050	0.010	1		Aroclor-1221	ND	0.50	0.050	1	
Heptachlor Epoxide	ND	0.050	0.023	1		Aroclor-1232	ND	0.50	0.050	1	
Endosulfan I	ND	0.050	0.0052	1		Aroclor-1242	ND	0.50	0.050	1	
Dieldrin	ND	0.050	0.012	1		Aroclor-1248	ND	0.50	0.050	1	
4,4'-DDE	ND	0.050	0.012	1		Aroclor-1254	ND	0.50	0.050	1	
Endrin	ND	0.050	0.012	1		Aroclor-1260	ND	0.50	0.12	1	
Endrin Aldehyde	ND	0.050	0.0052	1		2,4'-DDD	ND	0.050	0.0048	1	
4,4'-DDD	ND	0.050	0.012	1		2,4'-DDE	ND	0.050	0.0074	1	
Endosulfan II	ND	0.050	0.011	1		2,4'-DDT	ND	0.050	0.0041	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	88	50-135				2,4,5,6-Tetrachloro-m-Xylene	57	50-135			

LBO-2	06-10-0488-2	10/09/06	Aqueous	10/10/06	10/14/06	061010L10
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.050	0.013	1		4,4'-DDT	ND	0.050	0.015	1	
Gamma-BHC	ND	0.050	0.020	1		Endosulfan Sulfate	ND	0.050	0.0079	1	
Beta-BHC	ND	0.050	0.0082	1		Chlordane	ND	0.50	0.085	1	
Heptachlor	ND	0.050	0.0074	1		Toxaphene	ND	2.0	0.31	1	
Delta-BHC	ND	0.050	0.018	1		Aroclor-1016	ND	0.50	0.077	1	
Aldrin	ND	0.050	0.010	1		Aroclor-1221	ND	0.50	0.050	1	
Heptachlor Epoxide	ND	0.050	0.023	1		Aroclor-1232	ND	0.50	0.050	1	
Endosulfan I	ND	0.050	0.0052	1		Aroclor-1242	ND	0.50	0.050	1	
Dieldrin	ND	0.050	0.012	1		Aroclor-1248	ND	0.50	0.050	1	
4,4'-DDE	ND	0.050	0.012	1		Aroclor-1254	ND	0.50	0.050	1	
Endrin	ND	0.050	0.012	1		Aroclor-1260	ND	0.50	0.12	1	
Endrin Aldehyde	ND	0.050	0.0052	1		2,4'-DDD	ND	0.050	0.0048	1	
4,4'-DDD	ND	0.050	0.012	1		2,4'-DDE	ND	0.050	0.0074	1	
Endosulfan II	ND	0.050	0.011	1		2,4'-DDT	ND	0.050	0.0041	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	93	50-135				2,4,5,6-Tetrachloro-m-Xylene	62	50-135			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

# Analytical Report



Weston Solutions  
 2433 Impala Drive  
 Carlsbad, CA 92008-7227

Date Received: 10/09/06  
 Work Order No: 06-10-0488  
 Preparation: EPA 3510B  
 Method: EPA 8081A/8082  
 Units: ug/L

Project: POLB / TMDL Support

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
LBI-10	06-10-0488-4	10/07/06	Aqueous	10/10/06	10/14/06	061010L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

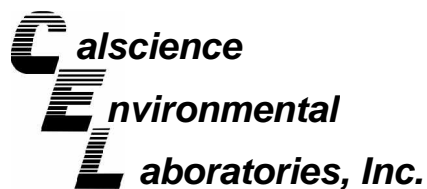
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.050	0.013	1		4,4'-DDT	ND	0.050	0.015	1	
Gamma-BHC	ND	0.050	0.020	1		Endosulfan Sulfate	ND	0.050	0.0079	1	
Beta-BHC	ND	0.050	0.0082	1		Chlordane	ND	0.50	0.085	1	
Heptachlor	ND	0.050	0.0074	1		Toxaphene	ND	2.0	0.31	1	
Delta-BHC	ND	0.050	0.018	1		Aroclor-1016	ND	0.50	0.077	1	
Aldrin	ND	0.050	0.010	1		Aroclor-1221	ND	0.50	0.050	1	
Heptachlor Epoxide	ND	0.050	0.023	1		Aroclor-1232	ND	0.50	0.050	1	
Endosulfan I	ND	0.050	0.0052	1		Aroclor-1242	ND	0.50	0.050	1	
Dieldrin	ND	0.050	0.012	1		Aroclor-1248	ND	0.50	0.050	1	
4,4'-DDE	ND	0.050	0.012	1		Aroclor-1254	ND	0.50	0.050	1	
Endrin	ND	0.050	0.012	1		Aroclor-1260	ND	0.50	0.12	1	
Endrin Aldehyde	ND	0.050	0.0052	1		2,4'-DDD	ND	0.050	0.0048	1	
4,4'-DDD	ND	0.050	0.012	1		2,4'-DDE	ND	0.050	0.0074	1	
Endosulfan II	ND	0.050	0.011	1		2,4'-DDT	ND	0.050	0.0041	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	89	50-135				2,4,5,6-Tetrachloro-m-Xylene	62	50-135			

<b>Method Blank</b>	<b>099-12-422-3</b>	<b>N/A</b>	<b>Aqueous</b>	<b>10/10/06</b>	<b>10/13/06</b>	<b>061010L10</b>
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Alpha-BHC	ND	0.050	0.013	1		4,4'-DDT	ND	0.050	0.015	1	
Gamma-BHC	ND	0.050	0.020	1		Endosulfan Sulfate	ND	0.050	0.0079	1	
Beta-BHC	ND	0.050	0.0082	1		Chlordane	ND	0.50	0.085	1	
Heptachlor	ND	0.050	0.0074	1		Toxaphene	ND	2.0	0.31	1	
Delta-BHC	ND	0.050	0.018	1		Aroclor-1016	ND	0.50	0.077	1	
Aldrin	ND	0.050	0.010	1		Aroclor-1221	ND	0.50	0.050	1	
Heptachlor Epoxide	ND	0.050	0.023	1		Aroclor-1232	ND	0.50	0.050	1	
Endosulfan I	ND	0.050	0.0052	1		Aroclor-1242	ND	0.50	0.050	1	
Dieldrin	ND	0.050	0.012	1		Aroclor-1248	ND	0.50	0.050	1	
4,4'-DDE	ND	0.050	0.012	1		Aroclor-1254	ND	0.50	0.050	1	
Endrin	ND	0.050	0.012	1		Aroclor-1260	ND	0.50	0.12	1	
Endrin Aldehyde	ND	0.050	0.0052	1		2,4'-DDD	ND	0.050	0.0048	1	
4,4'-DDD	ND	0.050	0.012	1		2,4'-DDE	ND	0.050	0.0074	1	
Endosulfan II	ND	0.050	0.011	1		2,4'-DDT	ND	0.050	0.0041	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	77	50-135				2,4,5,6-Tetrachloro-m-Xylene	74	50-135			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488

Project: POLB / TMDL Support

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
<b>LBM-2</b>	<b>06-10-0488-1</b>	<b>10/09/06</b>	<b>Aqueous</b>

Comment(s): (1) Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	2.2	1.0		1		mg/L	N/A	10/10/06	EPA 413.1
Carbon, Total Organic (1)	0.74	5.0	0.21	10	J	mg/L	N/A	10/11/06	EPA 415.1
Carbon, Dissolved Organic (1)	1.2	5.0	0.21	10	J	mg/L	10/10/06	10/11/06	EPA 415.1

<b>LBO-2</b>	<b>06-10-0488-2</b>	<b>10/09/06</b>	<b>Aqueous</b>
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Comment(s): (1) Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	1.4	1.0		1		mg/L	N/A	10/10/06	EPA 413.1
Carbon, Total Organic (1)	0.98	5.0	0.21	10	J	mg/L	N/A	10/11/06	EPA 415.1
Carbon, Dissolved Organic (1)	1.6	5.0	0.21	10	J	mg/L	10/10/06	10/11/06	EPA 415.1

<b>LB1-10</b>	<b>06-10-0488-4</b>	<b>10/07/06</b>	<b>Aqueous</b>
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Comment(s): (1) Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

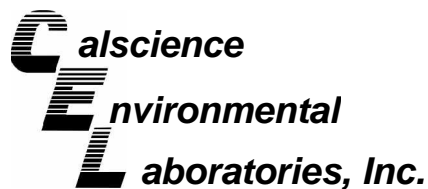
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	1.9	1.0		1		mg/L	N/A	10/10/06	EPA 413.1
Carbon, Total Organic (1)	1.0	5.0	0.21	10	J	mg/L	N/A	10/11/06	EPA 415.1
Carbon, Dissolved Organic (1)	1.3	5.0	0.21	10	J	mg/L	10/10/06	10/11/06	EPA 415.1

<b>Method Blank</b>	<b>N/A</b>	<b>Aqueous</b>
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Comment(s): (1) Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Oil and Grease	ND	1.0		1		mg/L	N/A	10/10/06	EPA 413.1
Carbon, Total Organic (1)	ND	0.50	0.021	1		mg/L	N/A	10/11/06	EPA 415.1
Carbon, Dissolved Organic (1)	ND	0.50	0.021	1		mg/L	10/10/06	10/11/06	EPA 415.1

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

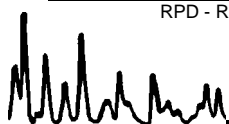
Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 5030B  
Method: EPA 8015B

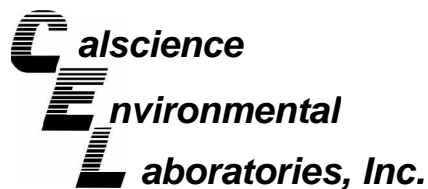
Project POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-10-0333-3	Aqueous	GC 24	10/10/06	10/11/06	061010S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics	80	83	68-122	4	0-18	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510C  
Method: EPA 8015B

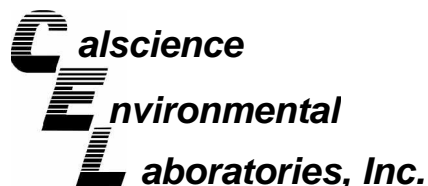
Project POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-10-0333-3	Aqueous	GC 15	10/10/06	10/11/06	061010S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	95	87	55-133	9	0-30	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

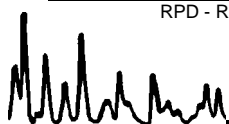
Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: EPA 8270C

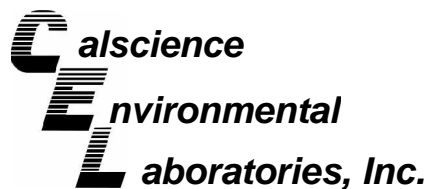
Project POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-10-0333-3	Aqueous	GC/MS J	10/10/06	10/13/06	061010S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	39	52	12-151	30	0-23	4
2-Chlorophenol	70	88	45-135	24	0-18	4
1,4-Dichlorobenzene	70	89	36-118	24	0-26	
N-Nitroso-di-n-propylamine	75	92	52-128	21	0-13	4
1,2,4-Trichlorobenzene	69	88	42-120	24	0-21	4
4-Chloro-3-Methylphenol	69	86	20-150	23	0-40	
Acenaphthene	69	88	51-137	24	0-11	4
4-Nitrophenol	21	44	20-150	72	0-40	4
2,4-Dinitrotoluene	68	87	25-143	25	0-36	
Pentachlorophenol	55	83	20-150	39	0-40	
Pyrene	66	83	45-135	23	0-20	4

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

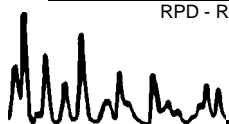
Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: Organotins by Krone

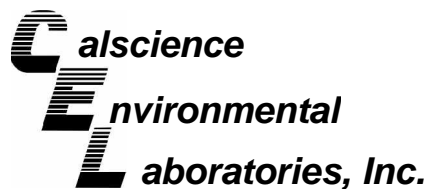
Project POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-10-0333-3	Aqueous	GC/MS Y	10/11/06	10/12/06	061011S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Tetrabutyltin	59	42	50-130	34	0-20	4,3
Tributyltin	89	66	50-130	30	0-20	4

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

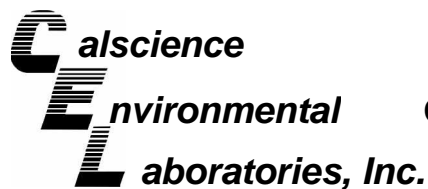
Date Received: 10/09/06  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: EPA 8081A/8082

Project POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-10-0333-3	Aqueous	GC 16	10/10/06	10/13/06	061010S10

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	96	99	50-135	2	0-25	
Heptachlor	83	80	50-135	5	0-25	
Endosulfan I	86	84	50-135	2	0-25	
Dieldrin	94	91	50-135	3	0-25	
Endrin	109	108	50-135	1	0-25	
4,4'-DDT	84	81	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: N/A  
Work Order No: 06-10-0488

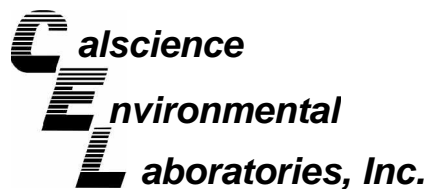
Project: POLB / TMDL Support

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	EPA 415.1	06-10-0333-3	10/11/06	N/A	84	85	70-130	1	0-25	
Carbon, Dissolved Organic	EPA 415.1	LBM-2	10/11/06	10/10/06	87	86	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



## Quality Control - Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: N/A  
Work Order No: 06-10-0488

Project: POLB / TMDL Support

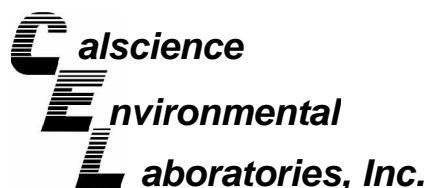
Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Oil and Grease	EPA 413.1	06-10-0333-3	10/10/06	1.4	1.2	15	0-25	

RPD - Relative Percent Difference , CL - Control Limit

A handwritten signature in black ink, appearing to be 'M. J. ...'.

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



## Quality Control - LCS/LCS Duplicate



Weston Solutions  
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Carlsbad, CA 92008-7227

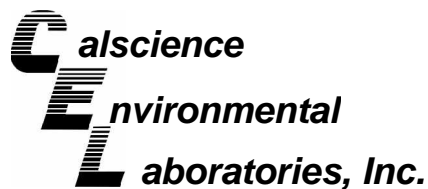
Date Received: N/A  
Work Order No: 06-10-0488  
Preparation: EPA 5030B  
Method: EPA 8015B

Project: POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-022-231	Aqueous	GC 24	10/10/06	10/10/06	061010B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics	94	93	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Weston Solutions  
2433 Impala Drive  
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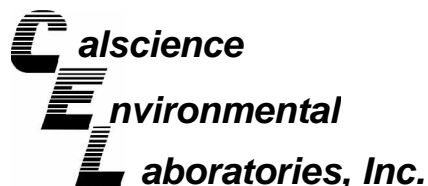
Date Received: N/A  
Work Order No: 06-10-0488  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-15	Aqueous	GC 15	10/10/06	10/10/06	061010B06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	84	90	75-117	8	0-13	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: N/A  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: EPA 8270C

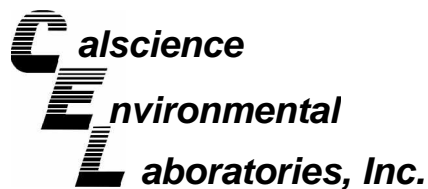
Project: POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-03-006-205	Aqueous	GC/MS J	10/10/06	10/12/06	061010L09

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	45	45	12-151	1	0-23	
2-Chlorophenol	95	96	45-135	1	0-18	
1,4-Dichlorobenzene	95	96	36-118	1	0-26	
N-Nitroso-di-n-propylamine	87	88	52-128	0	0-13	
1,2,4-Trichlorobenzene	93	92	42-120	2	0-21	
4-Chloro-3-Methylphenol	83	82	20-150	1	0-40	
Acenaphthene	94	93	51-137	0	0-11	
4-Nitrophenol	41	41	20-150	2	0-40	
2,4-Dinitrotoluene	107	105	25-143	2	0-36	
Pentachlorophenol	97	98	20-150	2	0-40	
Pyrene	78	79	45-135	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

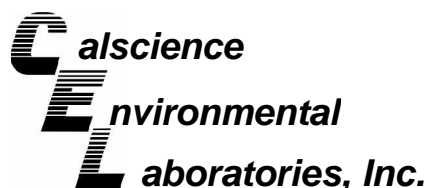
Date Received: N/A  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: Organotins by Krone

Project: POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-035-38	Aqueous	GC/MS Y	10/11/06	10/12/06	061011L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Tetrabutyltin	66	61	50-130	8	0-20	
Tributyltin	83	80	50-130	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received: N/A  
Work Order No: 06-10-0488  
Preparation: EPA 3510B  
Method: EPA 8081A/8082

Project: POLB / TMDL Support

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-422-3	Aqueous	GC 16	10/10/06	10/13/06	061010L10

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	84	86	50-135	1	0-25	
Heptachlor	83	73	50-135	13	0-25	
Endosulfan I	75	73	50-135	3	0-25	
Dieldrin	80	78	50-135	2	0-25	
Endrin	92	87	50-135	5	0-25	
4,4'-DDT	76	73	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Laboratory Control Sample



Weston Solutions  
2433 Impala Drive  
Carlsbad, CA 92008-7227

Date Received:  
Work Order No:

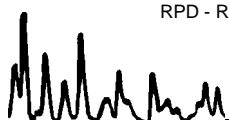
N/A  
06-10-0488

Project: POLB / TMDL Support

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc</u> <u>Added</u>	<u>Conc</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec</u> <u>CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	EPA 415.1	099-05-097-2,427	10/11/06	N/A	5.0	5.3	106	80-120	
Carbon, Dissolved Organic	EPA 415.1	099-05-115-532	10/11/06	10/10/06	5.0	5.2	104	80-120	

RPD - Relative Percent Difference , CL - Control Limit



## Glossary of Terms and Qualifiers



Work Order Number: 06-10-0488

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<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





2433 Impala Drive • Carlsbad, CA 92008 • (760) 931-8081, FAX 931-1580  
98 Main St., Ste. #428 • Tiburon, CA 94920 • (415) 435-1847, FAX 435-0479  
1440 Broadway, Ste. 908 • Oakland, CA 94612 • (510) 808-0302, FAX 891-9710  
152 Sunset View Lane • Sequim, WA 98382 • (360) 582-1758, FAX 582-1679  
4729 NE View Drive • Port Gamble, WA 98364 • (360) 297-6903, FAX 297-6905

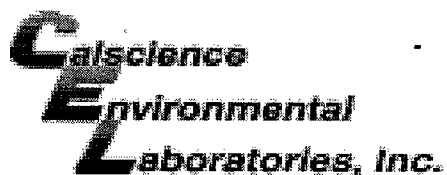
# CHAIN OF CUSTODY

13292

DATE 10/19/06 PAGE 1 OF 1

PROJECT NAME / SURVEY / PROJECT NUMBER				ANALYSIS/TEST REQUESTED		FOR WESTON USE ONLY		
PROJECT MANAGER				CONTAINERS		SAMPLE TEMP. UPON RECEIPT		
COMPANY				NUMBER & TYPE OF		PRESERVED HOW/ COMMENTS		
ADDRESS				12		WESTON LAB ID		
PHONE/FAX	DATE	TIME	MATRIX	INITIALS	SAMPLE TEMP. UPON RECEIPT		WESTON LAB ID	
760-931-8081	10/19/06	14:30	Water	(initials)				
LB-M-2	10/19/06	15:20						
LB-O-2	10/19/06	08:30						
LB-I-11	10/19/06	07:40						
LB-I-10	10/19/06	07:40						
SPECIAL INSTRUCTIONS/COMMENTS:								
SHIPPING:								
Shipping VIA:				Airbill No:				
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		
Signature: <u>Butt A. Mak</u>		Signature: <u>Kurt B. Boyer</u>		Signature: <u>Specifama</u>		Signature: <u>Specifama</u>		
Firm: <u>Weston</u>		Firm: <u>Caltrans</u>		Firm: <u>Caltrans</u>		Firm: <u>Caltrans</u>		
Date/Time: <u>10/19/06 18:16</u>		Date/Time: <u>10/19/06 18:16</u>		Date/Time: <u>10/19/06 19:00</u>		Date/Time: <u>10/19/06 19:00</u>		

WHITE - return to originator • YELLOW - lab • PINK - retained by originator



WORK ORDER #: 06 - 10 - 0488

Cooler 1 of 3

# SAMPLE RECEIPT FORM

 CLIENT: Weston

 DATE: 10.9.06

## TEMPERATURE – SAMPLES RECEIVED BY:

### CALSCIENCE COURIER:

- ☐ Chilled, cooler with temperature blank provided.  
☐ Chilled, cooler without temperature blank.  
☒ Chilled and placed in cooler with wet ice.  
☐ Ambient and placed in cooler with wet ice.  
☐ Ambient temperature.

2.5 °C Temperature blank.

### LABORATORY (Other than Calscience Courier):

- ☐ °C Temperature blank.  
☐ °C IR thermometer.  
☐ Ambient temperature.

 Initial VBS

## CUSTODY SEAL INTACT:

 Sample(s): \_\_\_\_\_ Cooler: \_\_\_\_\_ No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): ☒

 Initial VBS

## SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace. ....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

 Initial VBS

## COMMENTS:

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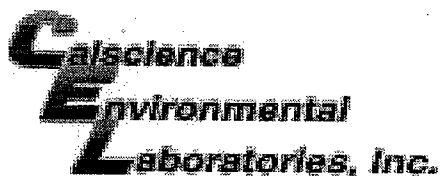
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WORK ORDER #: 06 - 10 - 0488

Cooler 2 of 3

## SAMPLE RECEIPT FORM

CLIENT: WestonDATE: 10.9.06

## TEMPERATURE – SAMPLES RECEIVED BY:

## CALSCIENCE COURIER:

- ☐ Chilled, cooler with temperature blank provided.  
☐ Chilled, cooler without temperature blank.  
☒ Chilled and placed in cooler with wet ice.  
☐ Ambient and placed in cooler with wet ice.  
☐ Ambient temperature.

2.6 °C Temperature blank.

## LABORATORY (Other than Calscience Courier):

- ☐ °C Temperature blank.  
☐ °C IR thermometer.  
☐ Ambient temperature.

Initial: VSS

## CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler: \_\_\_\_\_ No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): ✓Initial: VSS

## SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>✓</u>		
Sampler's name indicated on COC.....	<u>✓</u>		
Sample container label(s) consistent with custody papers.....	<u>✓</u>		
Sample container(s) intact and good condition.....	<u>✓</u>		
Correct containers and volume for analyses requested.....	<u>✓</u>		
Proper preservation noted on sample label(s).....	<u>✓</u>		
VOA vial(s) free of headspace. ....	<u>✓</u>		
Tedlar bag(s) free of condensation.....			<u>✓</u>

Initial: VSS

## COMMENTS:

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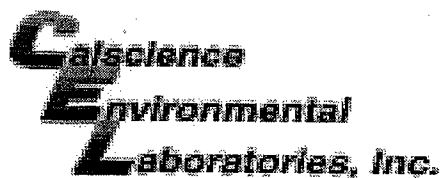
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WORK ORDER #: 06 - 10 - 0488

Cooler 3 of 3**SAMPLE RECEIPT FORM**CLIENT: WestonDATE: 10.9.06**TEMPERATURE – SAMPLES RECEIVED BY:****CALSCIENCE COURIER:**

- ☐ Chilled, cooler with temperature blank provided.
- ☐ Chilled, cooler without temperature blank.
- ☒ Chilled and placed in cooler with wet ice.
- ☐ Ambient and placed in cooler with wet ice.
- ☐ Ambient temperature.

2.6 °C Temperature blank.**LABORATORY (Other than Calscience Courier):**

- ☐ °C Temperature blank.
- ☐ °C IR thermometer.
- ☐ Ambient temperature.

Initial: VB**CUSTODY SEAL INTACT:**Sample(s): \_\_\_\_\_ Cooler: \_\_\_\_\_ No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): /Initial: VB**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>/</u>		
Sampler's name indicated on COC.....	<u>/</u>		
Sample container label(s) consistent with custody papers.....	<u>/</u>		
Sample container(s) intact and good condition.....	<u>/</u>		
Correct containers and volume for analyses requested.....	<u>/</u>		
Proper preservation noted on sample label(s).....	<u>/</u>		
VOA vial(s) free of headspace. ....	<u>/</u>		
Tedlar bag(s) free of condensation.....			<u>/</u>

Initial: VB**COMMENTS:**


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October 31, 2006

Calscience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92841

Re: CRG Marine Laboratories                      Project ID: P 26201d  
Calscience Environmental Laboratories      Project ID: 06-10-0488 (Weston - POLB)

ATTN: Bob Stearns

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 06-10-0488 (Weston - POLB) project. According to the chain-of-custody, 3 samples were received intact at CRG on 10/10/2006. Per your instructions, the samples were analyzed for:

- Trace Metals By ICPMS Using Method EPA 6020m
- Trace Metals By ICPMS Using Method EPA 1640m
- Mercury (Hg) By CVAFS Using Method EPA 245.7m
- PCB Congeners By GCMS Using Method EPA 625m

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,  
Misty Mercier

Reviewed and Approved \_\_\_\_\_

---

## *Project Sample List*

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*Calscience Environmental*

*CRG Project ID:*     **26201d**

*Project Officer:*     Bob Stearns

*Project Description:* 06-10-0488 (Weston - POLB)

---

<i>CRG Sample ID#</i>	<i>Client Sample ID</i>	<i>Sample Description</i>	<i>Date Sampled</i>	<i>Matrix</i>
45499	LBM-2		09-Oct-06	Seawater
45500	LBO-2		09-Oct-06	Seawater
45502	LBI-10		07-Oct-06	Seawater

---

# **DATA REPORT**

# **TRACE METAL RESULTS**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45499

**Sample** LBM-2

**Date Sampled:** 09-Oct-06 14:30

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Particulate	EPA 6020m	0.027	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Arsenic (As)	Dissolved	EPA 1640m	1.1	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	0.017	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Particulate	EPA 6020m	0.16	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	0.31	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Particulate	EPA 6020m	0.203	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	0.46	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Particulate	EPA 6020m	0.107	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	J 0.009	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Particulate	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Particulate	EPA 6020m	0.076	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Nickel (Ni)	Dissolved	EPA 1640m	0.204	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	J 0.01	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Particulate	EPA 6020m	0.487	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	0.88	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45499 R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** **26201d**

**CRG ID#:** 45499

**Sample** LBM-2

**Date Sampled:** 09-Oct-06 14:30

**Replicate #:** R2

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Particulate	EPA 6020m	0.026	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Arsenic (As)	Dissolved	EPA 1640m	1.07	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	0.019	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Particulate	EPA 6020m	0.16	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	0.3	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Particulate	EPA 6020m	0.2	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	0.47	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Particulate	EPA 6020m	0.109	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	J 0.009	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Particulate	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Particulate	EPA 6020m	0.074	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Nickel (Ni)	Dissolved	EPA 1640m	0.193	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	J 0.01	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Particulate	EPA 6020m	0.479	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	0.99	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45499 R2

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45500

**Sample** LBO-2

**Date Sampled:** 09-Oct-06 15:20

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Particulate	EPA 6020m	0.052	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Arsenic (As)	Dissolved	EPA 1640m	0.87	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	0.021	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Particulate	EPA 6020m	0.12	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	0.26	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Particulate	EPA 6020m	0.196	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	0.61	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Particulate	EPA 6020m	0.196	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	0.015	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Particulate	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Particulate	EPA 6020m	0.059	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Nickel (Ni)	Dissolved	EPA 1640m	0.322	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	ND	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Particulate	EPA 6020m	0.777	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	1.315	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45500 R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45502

**Sample** LBI-10

**Date Sampled:** 07-Oct-06 09:40

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Particulate	EPA 6020m	0.042	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Arsenic (As)	Dissolved	EPA 1640m	1.1	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	0.015	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Particulate	EPA 6020m	0.23	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	0.27	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Particulate	EPA 6020m	0.278	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	0.48	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Particulate	EPA 6020m	0.161	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	J 0.005	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Particulate	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Particulate	EPA 6020m	0.115	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Nickel (Ni)	Dissolved	EPA 1640m	0.192	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	J 0.01	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Particulate	EPA 6020m	0.608	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	1.076	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45502 R1



# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45503

**Sample** QAQC

LCM-CRG Seawater

**Date Sampled:**

**Replicate #:** LCM1

**Description:** 06-10-0333 (Weston - POLB)

**Date Received:**

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Dissolved	EPA 1640m	1.41	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	0.097	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	0.41	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	1.63	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	J 0.007	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Dissolved	EPA 1640m	0.305	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	0.06	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	ND	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45503 LCM1

# **CONGENER-BASED PCB RESULTS**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45499

**Sample** LBM-2

**Date Sampled:** 09-Oct-06 14:30

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 625m	88	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB112)	Total	EPA 625m	94	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB198)	Total	EPA 625m	92	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(TCMX)	Total	EPA 625m	82	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
PCB018	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB028	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB031	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB033	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB037	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB044	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB049	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB052	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB066	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB070	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB074	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB077	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB081	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB087	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB095	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB097	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB099	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB101	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB105	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB110	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB114	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45499 R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45499

**Sample** LBM-2

**Date Sampled:** 09-Oct-06 14:30

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB118	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB119	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB123	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB126	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB128+167	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB138	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB141	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB149	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB151	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB153	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB156	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB157	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB158	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB168+132	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB169	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB170	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB177	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB180	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB183	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB187	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB189	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB194	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB200	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB201	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB206	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45499 R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45499

**Sample** LBM-2

**Date Sampled:** 09-Oct-06 14:30

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Total Detectable PCBs	Total	EPA 625m	0	ng/L			13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45499 R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45500

**Sample** LBO-2

**Date Sampled:** 09-Oct-06 15:20

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 625m	93	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB112)	Total	EPA 625m	96	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB198)	Total	EPA 625m	94	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(TCMX)	Total	EPA 625m	82	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
PCB018	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB028	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB031	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB033	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB037	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB044	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB049	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB052	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB066	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB070	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB074	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB077	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB081	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB087	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB095	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB097	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB099	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB101	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB105	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB110	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB114	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45500

R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45500

**Sample** LBO-2

**Date Sampled:** 09-Oct-06 15:20

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB118	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB119	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB123	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB126	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB128+167	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB138	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB141	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB149	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB151	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB153	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB156	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB157	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB158	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB168+132	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB169	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB170	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB177	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB180	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB183	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB187	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB189	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB194	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB200	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB201	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB206	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45500

R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45500

**Sample** LBO-2

**Date Sampled:** 09-Oct-06 15:20

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Total Detectable PCBs	Total	EPA 625m	0	ng/L			13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45500 R1



# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45502

**Sample** LBI-10

**Date Sampled:** 07-Oct-06 09:40

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 625m	93	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB112)	Total	EPA 625m	92	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB198)	Total	EPA 625m	95	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(TCMX)	Total	EPA 625m	88	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
PCB018	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB028	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB031	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB033	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB037	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB044	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB049	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB052	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB066	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB070	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB074	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB077	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB081	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB087	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB095	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB097	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB099	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB101	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB105	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB110	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB114	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45502

R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45502

**Sample** LBI-10

**Date Sampled:** 07-Oct-06 09:40

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB118	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB119	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB123	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB126	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB128+167	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB138	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB141	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB149	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB151	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB153	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB156	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB157	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB158	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB168+132	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB169	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB170	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB177	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB180	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB183	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB187	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB189	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB194	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB200	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB201	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB206	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45502

R1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45502

**Sample** LBI-10

**Date Sampled:** 07-Oct-06 09:40

**Replicate #:** R1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:** 10-Oct-06

**DILUTION FACTOR:** 1

**Matrix:** Seawater

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Total Detectable PCBs	Total	EPA 625m	0	ng/L			13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45502 R1

# **QUALITY CONTROL REPORT**

# **PROCEDURAL BLANK RESULTS**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45498

**Sample** QAQC

Procedural Blank

**Date Sampled:**

**Replicate #:** B1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:**

**DILUTION FACTOR:** 1

**Matrix:** DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Arsenic (As)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Arsenic (As)	Dissolved	EPA 1640m	ND	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Cadmium (Cd)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Cadmium (Cd)	Dissolved	EPA 1640m	ND	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Chromium (Cr)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Chromium (Cr)	Dissolved	EPA 1640m	ND	µg/L	0.025	0.05	22-Oct-06	28-Oct-06	26201d-15015
Copper (Cu)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Copper (Cu)	Dissolved	EPA 1640m	ND	µg/L	0.01	0.02	22-Oct-06	28-Oct-06	26201d-15015
Lead (Pb)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Lead (Pb)	Dissolved	EPA 1640m	ND	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Mercury (Hg)	Particulate	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Mercury (Hg)	Dissolved	EPA 245.7m	ND	µg/L	0.01	0.02	27-Oct-06	27-Oct-06	26201d-2079
Nickel (Ni)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Nickel (Ni)	Dissolved	EPA 1640m	ND	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015
Selenium (Se)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Selenium (Se)	Dissolved	EPA 1640m	ND	µg/L	0.01	0.015	22-Oct-06	28-Oct-06	26201d-15015
Silver (Ag)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Silver (Ag)	Dissolved	EPA 1640m	ND	µg/L	0.02	0.04	22-Oct-06	28-Oct-06	26201d-15015
Zinc (Zn)	Particulate	EPA 6020m	ND	µg/L	0.025	0.05	22-Oct-06	26-Oct-06	26201d-15015
Zinc (Zn)	Dissolved	EPA 1640m	ND	µg/L	0.005	0.01	22-Oct-06	28-Oct-06	26201d-15015

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45498

B1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45498

**Sample** QAQC

Procedural Blank

**Date Sampled:**

**Replicate #:** B1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:**

**DILUTION FACTOR:** 1

**Matrix:** DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
(PCB030)	Total	EPA 625m	64	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB112)	Total	EPA 625m	80	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(PCB198)	Total	EPA 625m	86	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
(TCMX)	Total	EPA 625m	53	% Recovery			13-Oct-06	23-Oct-06	26201d-20057
PCB018	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB028	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB031	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB033	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB037	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB044	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB049	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB052	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB066	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB070	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB074	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB077	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB081	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB087	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB095	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB097	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB099	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB101	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB105	Total	EPA 625m	ND	ng/L	1	5		23-Oct-06	
PCB110	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB114	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45498

B1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45498

**Sample** QAQC

Procedural Blank

**Date Sampled:**

**Replicate #:** B1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:**

**DILUTION FACTOR:** 1

**Matrix:** DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
PCB118	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB119	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB123	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB126	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB128+167	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB138	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB141	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB149	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB151	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB153	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB156	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB157	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB158	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB168+132	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB169	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB170	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB177	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB180	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB183	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB187	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB189	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB194	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB200	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB201	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057
PCB206	Total	EPA 625m	ND	ng/L	1	5	13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261

45498

B1



# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## PCB Congeners

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45498

**Sample** QAQC

Procedural Blank

**Date Sampled:**

**Replicate #:** B1

**Description:** 06-10-0488 (Weston - POLB)

**Date Received:**

**DILUTION FACTOR:** 1

**Matrix:** DI Water

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DATE PROCESSED	DATE ANALYZED	BATCH ID
Total Detectable PCBs	Total	EPA 625m	0	ng/L			13-Oct-06	23-Oct-06	26202d-20057

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; J= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable; MI = Matrix Interference

California ELAP Certificate # 2261  
45498 B1

# **ACCURACY DATA**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45503

**Sample** QAQC

LCM-CRG Seawater

**Date Sampled:**

**Replicate #:** LCS1

**Description:** 06-10-0333 (Weston - POLB)

**Date Received:**

**Batch ID:** 26201d-15015

**Matrix:** Seawater

**Date Processed:** 22-Oct-06

**Date Analyzed:** 28-Oct-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT
Arsenic (As)	Dissolved	EPA 1640m	105	20 µg/L	65 - 125%	PASS
Cadmium (Cd)	Dissolved	EPA 1640m	81	10 µg/L	60 - 120%	PASS
Chromium (Cr)	Dissolved	EPA 1640m	104	20 µg/L	70 - 130%	PASS
Copper (Cu)	Dissolved	EPA 1640m	88	20 µg/L	55 - 120%	PASS
Lead (Pb)	Dissolved	EPA 1640m	87	20 µg/L	50 - 120%	PASS
Mercury (Hg)	Dissolved	EPA 245.7m	108	1 µg/L	60 - 140%	PASS
Nickel (Ni)	Dissolved	EPA 1640m	82	20 µg/L	50 - 120%	PASS
Selenium (Se)	Dissolved	EPA 1640m	84	20 µg/L	50 - 110%	PASS
Silver (Ag)	Dissolved	EPA 1640m	90	10 µg/L	50 - 125%	PASS
Zinc (Zn)	Dissolved		92	µg/L		PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

45503 LCS1

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** *Calscience Environmental Laboratories, Inc.*

**CRG Project ID:** *26201d*

**CRG ID#:** 45503

**Sample** QAQC

LCM-CRG Seawater

**Date Sampled:**

**Replicate #:** LCS2

**Description:** 06-10-0333 (Weston - POLB)

**Date Received:**

**Batch ID:** 26201d-15015

**Matrix:** Seawater

**Date Processed:** 22-Oct-06

**Date Analyzed:** 28-Oct-06

CONSTITUENT	FRACTION	METHOD	% RECOVERY	TRUE VALUE	ACCEPTANCE RANGE	COMMENT
Arsenic (As)	Dissolved	EPA 1640m	105	20 µg/L	65 - 125%	PASS
Cadmium (Cd)	Dissolved	EPA 1640m	81	10 µg/L	60 - 120%	PASS
Chromium (Cr)	Dissolved	EPA 1640m	103	20 µg/L	70 - 130%	PASS
Copper (Cu)	Dissolved	EPA 1640m	90	20 µg/L	55 - 120%	PASS
Lead (Pb)	Dissolved	EPA 1640m	81	20 µg/L	50 - 120%	PASS
Mercury (Hg)	Dissolved	EPA 245.7m	114	1 µg/L	60 - 140%	PASS
Nickel (Ni)	Dissolved	EPA 1640m	85	20 µg/L	50 - 120%	PASS
Selenium (Se)	Dissolved	EPA 1640m	85	20 µg/L	50 - 110%	PASS
Silver (Ag)	Dissolved	EPA 1640m	103	10 µg/L	50 - 125%	PASS
Zinc (Zn)	Dissolved	EPA 1640m	92	20 µg/L	45 - 105%	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261

45503 LCS2

# **PRECISION DATA**

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45499

**Sample Description:** LBM-2  
06-10-0488 (Weston - POLB)

**Date Sampled:** 09-Oct-06 14:30

**Date Received:** 10-Oct-06

**Batch ID:** 26201d-15015

**Matrix:** Seawater

**Date Processed:** 22-Oct-06

**Date Analyzed:** 26-Oct-06

CONSTITUENT	FRACTION	METHOD	R1 µg/L	R2 µg/L	% RPD	ACCEPTANCE RANGE	COMMENT
Arsenic (As)	Particulate	EPA 6020m	0.027	0.026	4	0 - 30%	PASS
Arsenic (As)	Dissolved	EPA 1640m	1.1	1.07	3	0 - 30%	PASS
Cadmium (Cd)	Dissolved	EPA 1640m	0.017	0.019	11	0 - 30%	PASS
Chromium (Cr)	Particulate	EPA 6020m	0.16	0.16	0	0 - 30%	PASS
Chromium (Cr)	Dissolved	EPA 1640m	0.31	0.3	3	0 - 30%	PASS
Copper (Cu)	Particulate	EPA 6020m	0.203	0.2	1	0 - 30%	PASS
Copper (Cu)	Dissolved	EPA 1640m	0.46	0.47	2	0 - 30%	PASS
Lead (Pb)	Particulate	EPA 6020m	0.107	0.109	2	0 - 30%	PASS
Lead (Pb)	Dissolved	EPA 1640m	0.009	0.009	0	0 - 30%	PASS
Nickel (Ni)	Particulate	EPA 6020m	0.076	0.074	3	0 - 30%	PASS
Nickel (Ni)	Dissolved	EPA 1640m	0.204	0.193	6	0 - 30%	PASS
Selenium (Se)	Dissolved	EPA 1640m	0.01	0.01	0	0 - 30%	PASS
Zinc (Zn)	Particulate	EPA 6020m	0.487	0.479	2	0 - 30%	PASS
Zinc (Zn)	Dissolved	EPA 1640m	0.88	0.99	12	0 - 30%	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261  
45499

# CRG Marine Laboratories, Inc.

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Trace Metals

**Client:** Calscience Environmental Laboratories, Inc.

**CRG Project ID:** 26201d

**CRG ID#:** 45503 **Sample** QAQC LCM-CRG Seawater

**Description:** 06-10-0333 (Weston - POLB)

**Date Sampled:**

**Date Received:**

**Batch ID:** 26201d-15015

**Matrix:** Seawater

**Date Processed:** 22-Oct-06

**Date Analyzed:** 28-Oct-06

CONSTITUENT	FRACTION	METHOD	LCS1	LCS2	% RPD	ACCEPTANCE RANGE	COMMENT
			% Recovery	% Recovery			
Arsenic (As)	Dissolved	EPA 1640m	105	105	0	0 - 30%	PASS
Cadmium (Cd)	Dissolved	EPA 1640m	81	81	0	0 - 30%	PASS
Chromium (Cr)	Dissolved	EPA 1640m	104	103	1	0 - 30%	PASS
Copper (Cu)	Dissolved	EPA 1640m	88	90	2	0 - 30%	PASS
Lead (Pb)	Dissolved	EPA 1640m	87	81	7	0 - 30%	PASS
Mercury (Hg)	Dissolved	EPA 245.7m	108	114	5	0 - 30%	PASS
Nickel (Ni)	Dissolved	EPA 1640m	82	85	4	0 - 30%	PASS
Selenium (Se)	Dissolved	EPA 1640m	84	85	1	0 - 30%	PASS
Silver (Ag)	Dissolved	EPA 1640m	90	103	13	0 - 30%	PASS
Zinc (Zn)	Dissolved	EPA 1640m	92	92	0	0 - 30%	PASS

MDL= Method Detection Limit (CFR 40 Part 136); RL= Reporting Limit; E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261  
45503

# **CHAIN-OF-CUSTODY**



**CALSCIENCE ENVIRONMENTAL  
LABORATORIES, INC.**

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1427  
TEL: (714) 895-5494 • FAX: (714) 894-7501

To: *CRO Marine Labs  
Terrance.*

**CHAIN OF CUSTODY RECORD**

Date *10-10-2006*

Page *1* of *1*

LABORATORY CLIENT:		CLIENT PROJECT NAME / NUMBER: <i>06-10-0488 (Western-Palms)</i>		P.O. NO.:
ADDRESS:		PROJECT CONTACT: <i>Bob Stearns</i>		LAB USE ONLY <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
CITY:	STATE:	ZIP:	SAMPLER(S): (PRINT)	COELT LOG CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
TEL:	E-MAIL:	COOLER RECEIPT TEMP = <input type="checkbox"/> °C		

**REQUESTED ANALYSES**

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		SPECIAL INSTRUCTIONS:	
RWOCB REPORTING FORMS		* As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn	
COELT EDF			
24 HR			
48 HR			
72 HR			
5 DAYS			
10 DAYS			
LAB USE ONLY			
SAMPLE ID		FIELD POINT NAME (FOR COELT EDF)	
LBN-2		10/9/06 1430	
LBD-2		10/9/06 1520	
LBI-11		10/7/06 0830	
LBI-10		10/7/06 0940	

\* *As, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn*

TURNAROUND TIME:  
☐ SAME DAY  
☐ 24 HR  
☐ 48 HR  
☐ 72 HR  
☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: <i>10/10/06</i>	Time: <i>12:10</i>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: <i>10/10/06</i>	Time: <i>13:12</i>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



CRG

Marine Laboratories, Inc.

## SAMPLE RECEIVING

CRG Project ID

P26206

CLIENT  
NAME

CalScience

DATE  
RECEIVED

10/10/06

### COURIER INFORMATION

☐ CRG ☐ FEDEX  
☒ OTHER\* ☐ UPS

TRACKING  
NUMBER

### TEMPERATURE

12 °C ☐ BLUE ICE  
☒ WET ICE  
☐ NO ICE

### Chain-of-Custody

☒ INCLUDED  
☒ SIGNED  
☐ NOT INCLUDED

### SAMPLE MATRIX

☒ LIQUID  
☐ SOLID  
☐ OTHER\*

### CONDITION OF SAMPLES UPON ARRIVAL

	YES	NO*	NA
All sample containers intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples listed on COC are present.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample ID on containers consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers used for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All samples received within method holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Page 66 of 66

### \*NOTES

COMPLETED BY:

AV