

March 29, 2005

Jennifer Bell
The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Subject: **Calscience Work Order No.: 05-03-0162**
Client Reference: **Sediment Sampling**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 3/2/2005 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 Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis 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 "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



The RETEC Group, Inc
 5000 East Spring Street, Suite 250
 Long Beach, CA 90815-5227

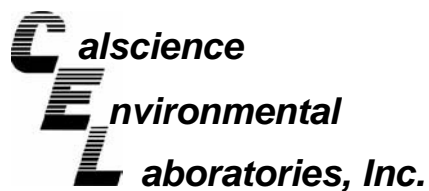
Date Received: 03/02/05
 Work Order No: 05-03-0162
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Sediment Sampling

Page 1 of 1

Client Sample Number	Lab Sample Number				Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R8-030205	05-03-0162-2				03/02/05	Solid	03/03/05	03/04/05	050303L12
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	0.605	0.500	1		Lead	40.9	0.5	1	
Chromium (Total)	26.1	0.2	1		Nickel	8.70	0.25	1	
Copper	43.5	0.5	1		Zinc	157	1	1	
R7-030205	05-03-0162-3				03/02/05	Solid	03/03/05	03/04/05	050303L12
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	8.82	0.50	1		Lead	47.7	0.5	1	
Chromium (Total)	61.3	0.2	1		Nickel	9.53	0.25	1	
Copper	297	0.500	1		Zinc	179	1	1	
R6-030205	05-03-0162-4				03/02/05	Solid	03/03/05	03/04/05	050303L12
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	0.694	0.500	1		Lead	40.2	0.5	1	
Chromium (Total)	16.8	0.2	1		Nickel	8.02	0.25	1	
Copper	21.6	0.5	1		Zinc	159	1	1	
Method Blank	097-01-002-6,180				N/A	Solid	03/03/05	03/03/05	050303L12
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.500	1		Lead	ND	0.500	1	
Chromium (Total)	ND	0.250	1		Nickel	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: Sediment Sampling

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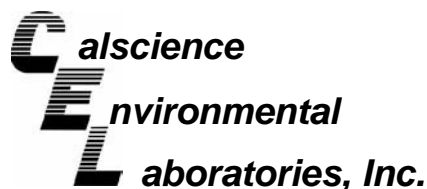
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R9-030205	05-03-0162-1	03/02/05	Aqueous	03/03/05	03/04/05	050303L10

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.00500	1		Lead	ND	0.0100	1	
Chromium (Total)	ND	0.00500	1		Nickel	ND	0.00500	1	
Copper	0.0366	0.0050	1		Zinc	ND	0.0100	1	

Method Blank	097-01-003-4,629	N/A	Aqueous	03/03/05	03/04/05	050303L10
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Cadmium	ND	0.00500	1		Lead	ND	0.0100	1	
Chromium (Total)	ND	0.00500	1		Nickel	ND	0.00500	1	
Copper	ND	0.00500	1		Zinc	ND	0.0100	1	

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3550B
Method: TPH - Carbon Range
Units: mg/kg

Project: Sediment Sampling

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R8-030205	05-03-0162-2	03/02/05	Solid	03/03/05	03/04/05	050303B01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		5		C21-C22	4.8		5	
C8	ND		5		C23-C24	9.3		5	
C9-C10	ND		5		C25-C28	26		5	
C11-C12	ND		5		C29-C32	46		5	
C13-C14	ND		5		C33-C36	39		5	
C15-C16	ND		5		C37-C40	45		5	
C17-C18	0.79		5		C41-C44	32		5	
C19-C20	3.9		5		C7-C44 Total	210	25	5	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	89	62-152							

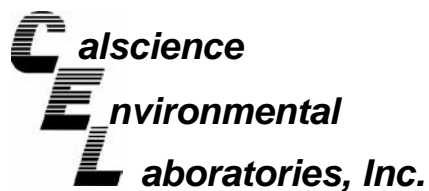
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R7-030205	05-03-0162-3	03/02/05	Solid	03/03/05	03/04/05	050303B01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	4.4		1	
C8	ND		1		C23-C24	6.4		1	
C9-C10	ND		1		C25-C28	21		1	
C11-C12	ND		1		C29-C32	27		1	
C13-C14	ND		1		C33-C36	19		1	
C15-C16	0.28		1		C37-C40	21		1	
C17-C18	1.2		1		C41-C44	18		1	
C19-C20	2.3		1		C7-C44 Total	120	5	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	102	62-152							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R6-030205	05-03-0162-4	03/02/05	Solid	03/03/05	03/04/05	050303B01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		5		C21-C22	10		5	
C8	ND		5		C23-C24	12		5	
C9-C10	ND		5		C25-C28	37		5	
C11-C12	ND		5		C29-C32	50		5	
C13-C14	ND		5		C33-C36	38		5	
C15-C16	ND		5		C37-C40	33		5	
C17-C18	4.0		5		C41-C44	39		5	
C19-C20	7.7		5		C7-C44 Total	230	25	5	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	104	62-152							

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Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3550B
Method: TPH - Carbon Range
Units: mg/kg

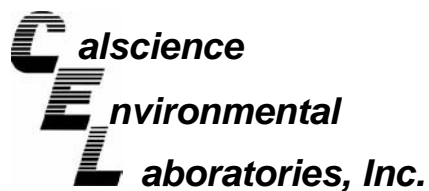
Project: Sediment Sampling

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	098-03-002-4,057	N/A	Solid	03/03/05	03/03/05	050303B01

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	
Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	102	62-152		

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Analytical Report



The RETEC Group, Inc
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Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3510C
Method: TPH - Carbon Range
Units: ug/L

Project: Sediment Sampling

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R9-030205	05-03-0162-1	03/02/05	Aqueous	03/03/05	03/03/05	050303B03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		0.5		C21-C22	ND		0.5	
C8	ND		0.5		C23-C24	ND		0.5	
C9-C10	ND		0.5		C25-C28	3.2		0.5	
C11-C12	ND		0.5		C29-C32	5.6		0.5	
C13-C14	1.4		0.5		C33-C36	ND		0.5	
C15-C16	8.5		0.5		C37-C40	ND		0.5	
C17-C18	3.3		0.5		C41-C44	ND		0.5	
C19-C20	18		0.5		C7-C44 Total	ND	500	0.5	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	129	51-141							

Method Blank	098-03-003-2,336	N/A	Aqueous	03/03/05	03/03/05	050303B03
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Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	500	0.5	
Surrogates:	REC (%)	Control Limits		Qual
Decachlorobiphenyl	131	51-141		

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

Analytical Report



The RETEC Group, Inc
 5000 East Spring Street, Suite 250
 Long Beach, CA 90815-5227

Date Received: 03/02/05
 Work Order No: 05-03-0162
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

Project: Sediment Sampling

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R8-030205	05-03-0162-2	03/02/05	Solid	03/03/05	03/07/05	050303L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.40	1		Benzo (a) Anthracene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Chrysene	ND	0.40	1	
Acenaphthene	ND	0.40	1		Benzo (k) Fluoranthene	ND	0.40	1	
Fluorene	ND	0.40	1		Benzo (b) Fluoranthene	ND	0.40	1	
Phenanthrene	ND	0.40	1		Benzo (a) Pyrene	ND	0.35	1	
Anthracene	ND	0.40	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Fluoranthene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
Pyrene	ND	0.40	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	74	31-142			Phenol-d6	70	30-136		
Nitrobenzene-d5	54	28-139			2-Fluorobiphenyl	55	33-144		
2,4,6-Tribromophenol	77	24-152			p-Terphenyl-d14	58	23-160		

R7-030205	05-03-0162-3	03/02/05	Solid	03/03/05	03/07/05	050303L05
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.40	1		Benzo (a) Anthracene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Chrysene	ND	0.40	1	
Acenaphthene	ND	0.40	1		Benzo (k) Fluoranthene	ND	0.40	1	
Fluorene	ND	0.40	1		Benzo (b) Fluoranthene	ND	0.40	1	
Phenanthrene	ND	0.40	1		Benzo (a) Pyrene	ND	0.35	1	
Anthracene	ND	0.40	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Fluoranthene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
Pyrene	ND	0.40	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	72	31-142			Phenol-d6	70	30-136		
Nitrobenzene-d5	68	28-139			2-Fluorobiphenyl	67	33-144		
2,4,6-Tribromophenol	67	24-152			p-Terphenyl-d14	70	23-160		

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

Analytical Report



The RETEC Group, Inc
 5000 East Spring Street, Suite 250
 Long Beach, CA 90815-5227

Date Received: 03/02/05
 Work Order No: 05-03-0162
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

Project: Sediment Sampling

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R6-030205	05-03-0162-4	03/02/05	Solid	03/03/05	03/07/05	050303L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.40	1		Benzo (a) Anthracene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Chrysene	ND	0.40	1	
Acenaphthene	ND	0.40	1		Benzo (k) Fluoranthene	ND	0.40	1	
Fluorene	ND	0.40	1		Benzo (b) Fluoranthene	ND	0.40	1	
Phenanthrene	ND	0.40	1		Benzo (a) Pyrene	ND	0.35	1	
Anthracene	ND	0.40	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Fluoranthene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
Pyrene	ND	0.40	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	90	31-142			Phenol-d6	88	30-136		
Nitrobenzene-d5	57	28-139			2-Fluorobiphenyl	61	33-144		
2,4,6-Tribromophenol	110	24-152			p-Terphenyl-d14	67	23-160		

Method Blank	095-01-002-1,016	N/A	Solid	03/03/05	03/04/05	050303L05
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	0.40	1		Benzo (a) Anthracene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Chrysene	ND	0.40	1	
Acenaphthene	ND	0.40	1		Benzo (k) Fluoranthene	ND	0.40	1	
Fluorene	ND	0.40	1		Benzo (b) Fluoranthene	ND	0.40	1	
Phenanthrene	ND	0.40	1		Benzo (a) Pyrene	ND	0.35	1	
Anthracene	ND	0.40	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Fluoranthene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
Pyrene	ND	0.40	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	80	31-142			Phenol-d6	80	30-136		
Nitrobenzene-d5	81	28-139			2-Fluorobiphenyl	78	33-144		
2,4,6-Tribromophenol	67	24-152			p-Terphenyl-d14	93	23-160		

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

Analytical Report



The RETEC Group, Inc
 5000 East Spring Street, Suite 250
 Long Beach, CA 90815-5227

Date Received: 03/02/05
 Work Order No: 05-03-0162
 Preparation: EPA 3520B
 Method: EPA 8270C
 Units: ug/L

Project: Sediment Sampling

Page 1 of 1

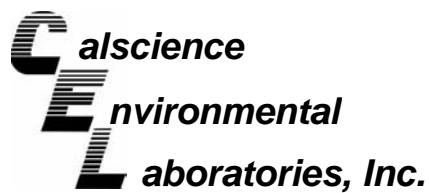
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R9-030205	05-03-0162-1	03/02/05	Aqueous	03/03/05	03/08/05	050302L12B

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
Acenaphthylene	ND	10	1		Chrysene	ND	10	1	
Acenaphthene	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
Fluorene	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
Phenanthrene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
Anthracene	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Fluoranthene	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Pyrene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	88	15-138			Phenol-d6	77	17-141		
Nitrobenzene-d5	99	28-139			2-Fluorobiphenyl	86	33-144		
2,4,6-Tribromophenol	81	32-143			p-Terphenyl-d14	99	23-160		

Method Blank	095-01-003-1,630	N/A	Aqueous	03/02/05	03/08/05	050302L12B
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	10	1		Benzo (a) Anthracene	ND	10	1	
Acenaphthylene	ND	10	1		Chrysene	ND	10	1	
Acenaphthene	ND	10	1		Benzo (k) Fluoranthene	ND	10	1	
Fluorene	ND	10	1		Benzo (b) Fluoranthene	ND	10	1	
Phenanthrene	ND	10	1		Benzo (a) Pyrene	ND	10	1	
Anthracene	ND	10	1		Benzo (g,h,i) Perylene	ND	10	1	
Fluoranthene	ND	10	1		Indeno (1,2,3-c,d) Pyrene	ND	10	1	
Pyrene	ND	10	1		Dibenz (a,h) Anthracene	ND	10	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	97	15-138			Phenol-d6	59	17-141		
Nitrobenzene-d5	110	28-139			2-Fluorobiphenyl	107	33-144		
2,4,6-Tribromophenol	100	32-143			p-Terphenyl-d14	136	23-160		

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8081A

Project: Sediment Sampling

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R8-030205	05-03-0162-2	03/02/05	Solid	03/04/05	03/07/05	050303L09

Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	50	1		ug/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	75	50-130	
2,4,5,6-Tetrachloro-m-Xylene	62	50-130	

R7-030205	05-03-0162-3	03/02/05	Solid	03/04/05	03/07/05	050303L09
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Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	50	1		ug/kg

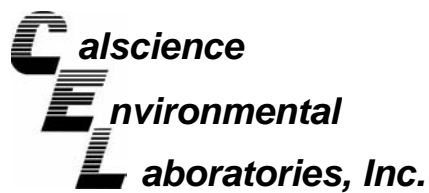
Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	69	50-130	
2,4,5,6-Tetrachloro-m-Xylene	73	50-130	

R6-030205	05-03-0162-4	03/02/05	Solid	03/04/05	03/07/05	050303L09
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Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	50	1		ug/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-130	
2,4,5,6-Tetrachloro-m-Xylene	57	50-130	

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Analytical Report



The RETEC Group, Inc
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Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8081A

Project: Sediment Sampling

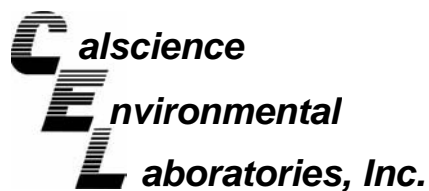
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-07-011-547	N/A	Solid	03/03/05	03/07/05	050303L09

Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	50	1		ug/kg

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	50-130	
2,4,5,6-Tetrachloro-m-Xylene	72	50-130	

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3520B
Method: EPA 8081A

Project: Sediment Sampling

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R9-030205	05-03-0162-1	03/02/05	Aqueous	03/03/05	03/07/05	050303L07

Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	1.0	1		ug/L

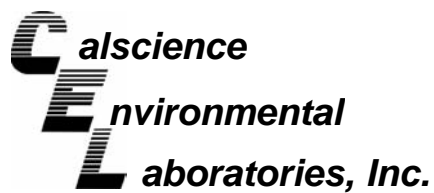
Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	84	50-135	
2,4,5,6-Tetrachloro-m-Xylene	64	50-135	

Method Blank	099-07-012-143	N/A	Aqueous	03/03/05	03/07/05	050303L07
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Parameter	Result	RL	DF	Qual	Units
Chlordane	ND	1.0	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	50-135	
2,4,5,6-Tetrachloro-m-Xylene	66	50-135	

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3510B
Method: Organotins by Krone

Project: Sediment Sampling

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R9-030205	05-03-0162-1	03/02/05	Aqueous	03/04/05	03/07/05	050304L07

Parameter	Result	RL	DF	Qual	Units
Tributyltin	ND	3.0	1		ng/L
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	67	50-130			

Method Blank	099-07-035-1	N/A	Aqueous	03/04/05	03/07/05	050304L07
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Parameter	Result	RL	DF	Qual	Units
Tributyltin	ND	3.0	1		ng/L
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	81	50-130			

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

Analytical Report



The RETEC Group, Inc
 5000 East Spring Street, Suite 250
 Long Beach, CA 90815-5227

Date Received: 03/02/05
 Work Order No: 05-03-0162
 Preparation: EPA 3545
 Method: Organotins by Krone

Project: Sediment Sampling

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
R8-030205	05-03-0162-2	03/02/05	Solid	03/04/05	03/08/05	050304L06

Parameter	Result	RL	DF	Qual	Units
Tributyltin	8.8	3.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	73	50-130			

R7-030205	05-03-0162-3	03/02/05	Solid	03/04/05	03/08/05	050304L06
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Parameter	Result	RL	DF	Qual	Units
Tributyltin	9.8	3.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	74	50-130			

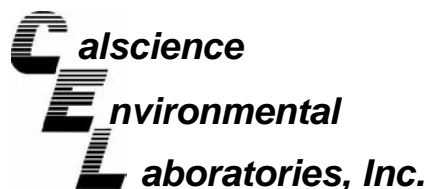
R6-030205	05-03-0162-4	03/02/05	Solid	03/04/05	03/08/05	050304L06
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Parameter	Result	RL	DF	Qual	Units
Tributyltin	8.2	3.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	83	50-130			

Method Blank	099-07-016-270	N/A	Solid	03/04/05	03/08/05	050304L06
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Parameter	Result	RL	DF	Qual	Units
Tributyltin	ND	3.0	1		ug/kg
Surrogates:	REC (%)	Control Limits		Qual	
Triphenyltin	80	50-130			

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



Analytical Report



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162

Project: Sediment Sampling

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
R9-030205	05-03-0162-1	03/02/05	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	0.62	0.50	1		mg/L	N/A	03/03/05	EPA 415.1

R8-030205	05-03-0162-2	03/02/05	Solid
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	5300	500	1		mg/kg	N/A	03/04/05	EPA 9060

R7-030205	05-03-0162-3	03/02/05	Solid
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	4900	500	1		mg/kg	N/A	03/04/05	EPA 9060

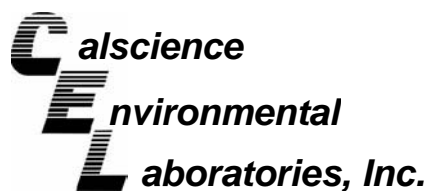
R6-030205	05-03-0162-4	03/02/05	Solid
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	5600	500	1		mg/kg	N/A	03/04/05	EPA 9060

Method Blank	N/A	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	ND	500	1		mg/L	N/A	03/03/05	EPA 415.1
Carbon, Total Organic	ND	0.10	1		mg/kg	N/A	03/04/05	EPA 9060

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



Quality Control - Spike/Spike Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

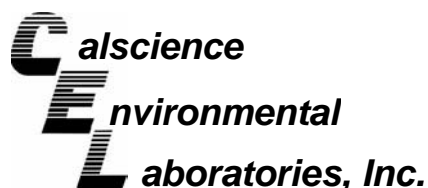
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3050B
Method: EPA 6010B

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-03-0235-1	Solid	ICP 3300	03/03/05	03/03/05	050303S12

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	105	105	75-125	0	0-20	
Chromium (Total)	106	106	75-125	0	0-20	
Copper	104	104	75-125	0	0-20	
Lead	103	104	75-125	1	0-20	
Nickel	104	104	75-125	1	0-20	
Zinc	107	109	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Long Beach, CA 90815-5227

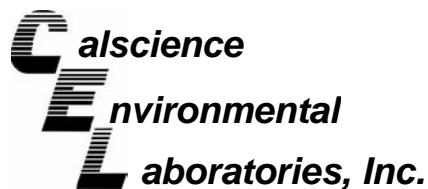
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3010A Total
Method: EPA 200.7

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-03-0190-1	Aqueous	ICP 3300	03/03/05	03/04/05	050303S10

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Cadmium	107	106	80-120	1	0-20	
Chromium (Total)	103	103	80-120	1	0-20	
Copper	102	102	80-120	1	0-20	
Lead	104	103	80-120	1	0-20	
Nickel	104	103	80-120	1	0-20	
Zinc	107	106	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Long Beach, CA 90815-5227

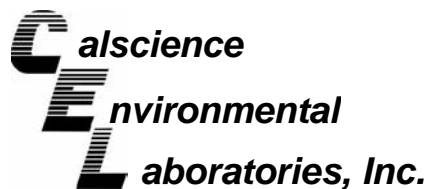
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3550B
Method: DHS LUFT

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-03-0154-1	Solid	GC 15	03/03/05	03/03/05	050303S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	92	83	71-125	10	0-12	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Long Beach, CA 90815-5227

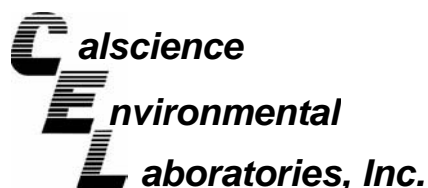
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8270C

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-03-0040-6	Solid	GC/MS GG	03/03/05	03/04/05	050303S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	84	87	48-114	3	0-18	
2-Chlorophenol	84	86	45-111	3	0-18	
1,4-Dichlorobenzene	95	95	45-111	0	0-19	
N-Nitroso-di-n-propylamine	101	105	44-116	4	0-18	
1,2,4-Trichlorobenzene	95	96	44-122	2	0-18	
4-Chloro-3-Methylphenol	82	86	52-124	5	0-17	
Acenaphthene	96	99	49-121	3	0-20	
4-Nitrophenol	57	64	40-130	12	0-20	
2,4-Dinitrotoluene	86	92	43-145	7	0-19	
Pentachlorophenol	56	62	19-127	9	0-48	
Pyrene	105	109	18-168	3	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Long Beach, CA 90815-5227

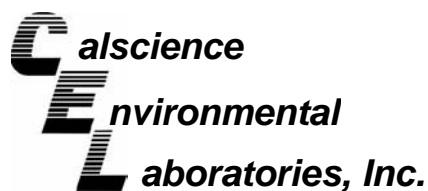
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8081A

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-03-0150-34	Solid	GC 7	03/03/05	03/07/05	050303S09

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	65	65	50-135	0	0-25	
Heptachlor	72	71	50-135	0	0-25	
Endosulfan I	106	102	50-135	4	0-25	
Dieldrin	145	137	50-135	6	0-25	3
Endrin	90	87	50-135	3	0-25	
4,4'-DDT	141	114	50-135	13	0-25	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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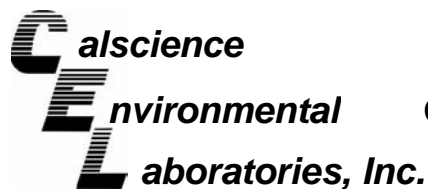
Date Received: 03/02/05
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: Organotins by Krone

Project Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
R6-030205	Solid	GC/MS Y	03/04/05	03/07/05	050304S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Tetrabutyltin	63	65	50-130	3	0-20	
Tributyltin	84	84	50-130	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: 03/02/05
Work Order No: 05-03-0162

Project: Sediment Sampling

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	05-03-0156-7	03/03/05	N/A	102	108	70-130	2	0-25	
Carbon, Total Organic	EPA 9060	05-02-1561-2	03/04/05	N/A	102	100	70-130	2	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



Environmental Quality Control - Laboratory Control Sample

Laboratories, Inc.



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3050B
Method: EPA 6010B

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-6,180	Solid	ICP 3300	03/03/05	050303-I-12	050303L12

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Cadmium	50.0	51.1	102	80-120	
Chromium (Total)	50.0	48.6	97	80-120	
Copper	50.0	47.0	94	80-120	
Lead	50.0	50.4	101	80-120	
Nickel	50.0	50.7	101	80-120	
Zinc	50.0	50.8	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit



Environmental Quality Control - Laboratory Control Sample

Laboratories, Inc.



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-4,629	Aqueous	ICP 3300	03/04/05	050303-I-10	050303L10

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Cadmium	1.00	1.04	104	80-120	
Chromium (Total)	1.00	0.990	99	80-120	
Copper	1.00	0.968	97	80-120	
Lead	1.00	1.03	103	80-120	
Nickel	1.00	1.04	104	80-120	
Zinc	1.00	1.02	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit



Environmental Quality Control - Laboratory Control Sample

Laboratories, Inc.



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3550B
Method: TPH - Carbon Range

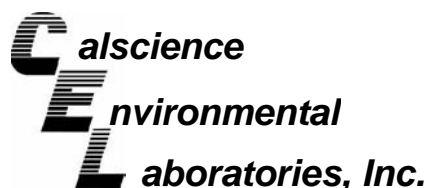
Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
098-03-002-4,057	Solid	GC 15	03/03/05	060B1001	050303B01

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
TPH as Diesel	400	320	81	71-119	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - LCS/LCS Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

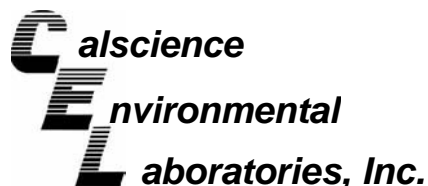
Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3510C
Method: TPH - Carbon Range

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-003-2,336	Aqueous	GC 15	03/03/05	03/03/05	050303B03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	87	84	60-132	4	0-11	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

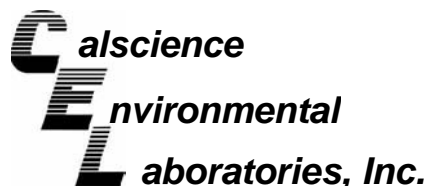
Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8270C

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-002-1,016	Solid	GC/MS GG	03/03/05	03/04/05	050303L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	89	92	58-112	2	0-15	
2-Chlorophenol	88	90	59-107	2	0-17	
1,4-Dichlorobenzene	100	100	60-108	0	0-16	
N-Nitroso-di-n-propylamine	104	106	52-112	2	0-17	
1,2,4-Trichlorobenzene	99	100	56-116	0	0-16	
4-Chloro-3-Methylphenol	91	93	58-124	3	0-15	
Acenaphthene	100	102	55-121	1	0-15	
4-Nitrophenol	77	81	44-134	5	0-19	
2,4-Dinitrotoluene	90	94	50-146	4	0-17	
Pentachlorophenol	68	71	24-138	4	0-21	
Pyrene	109	113	45-129	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3520B
Method: EPA 8270C

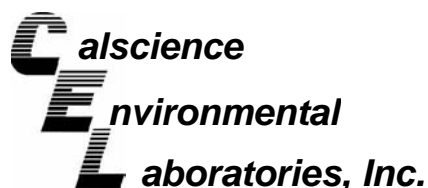
Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-003-1,630	Aqueous	GC/MS P	03/02/05	03/08/05	050302L12B

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	92	88	4-118	4	0-18	
2-Chlorophenol	94	87	35-101	7	0-21	
1,4-Dichlorobenzene	94	89	39-93	6	0-45	X
N-Nitroso-di-n-propylamine	92	95	33-123	3	0-38	
1,2,4-Trichlorobenzene	98	90	47-101	9	0-35	
4-Chloro-3-Methylphenol	92	88	0-295	4	0-30	
Acenaphthene	119	108	31-133	9	0-31	
4-Nitrophenol	106	94	1-143	12	0-44	
2,4-Dinitrotoluene	151	130	16-166	15	0-49	
Pentachlorophenol	82	78	1-154	4	0-53	
Pyrene	97	94	15-159	3	0-47	

Note "X" : The percent recovery is above acceptable control limits. The samples and method blank associated with this batch are non-detect, and therefore, the results have been reported without further clarification.

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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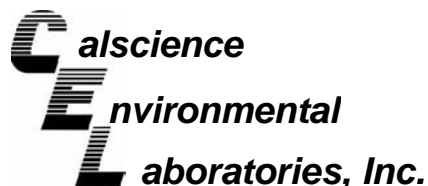
Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: EPA 8081A

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-011-547	Solid	GC 7	03/03/05	03/07/05	050303L09

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	80	78	50-135	3	0-25	
Heptachlor	79	76	50-135	3	0-25	
Endosulfan I	80	78	50-135	3	0-25	
Dieldrin	82	80	50-135	3	0-25	
Endrin	83	80	50-135	4	0-25	
4,4'-DDT	90	81	50-135	11	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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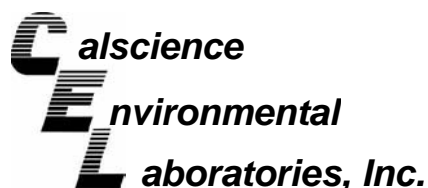
Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3520B
Method: EPA 8081A

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-012-143	Aqueous	GC 16	03/03/05	03/04/05	050303L07

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Gamma-BHC	97	101	50-135	4	0-25	
Heptachlor	91	97	50-135	7	0-25	
Endosulfan I	95	99	50-135	4	0-25	
Dieldrin	96	101	50-135	6	0-25	
Endrin	103	103	50-135	0	0-25	
4,4'-DDT	79	82	50-135	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Long Beach, CA 90815-5227

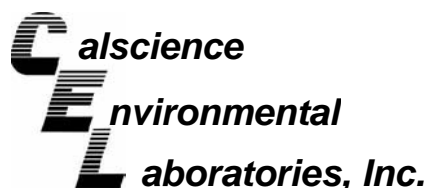
Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3510B
Method: Organotins by Krone

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-035-1	Aqueous	GC/MS Y	03/04/05	03/07/05	050304L07

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Tetrabutyltin	75	65	50-130	14	0-20	
Tributyltin	99	82	50-130	19	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received: N/A
Work Order No: 05-03-0162
Preparation: EPA 3545
Method: Organotins by Krone

Project: Sediment Sampling

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-016-270	Solid	GC/MS Y	03/04/05	03/08/05	050304L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Tetrabutyltin	72	76	50-130	5	0-20	
Tributyltin	95	93	50-130	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Laboratory Control Sample



The RETEC Group, Inc
5000 East Spring Street, Suite 250
Long Beach, CA 90815-5227

Date Received:
Work Order No:

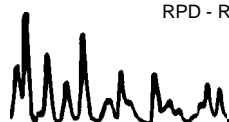
N/A
05-03-0162

Project: Sediment Sampling

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc Added</u>	<u>Conc Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	EPA 415.1	099-05-097-1,852	03/03/05	N/A	10	9.6	96	80-120	
Carbon, Total Organic	EPA 9060	099-06-013-54	03/04/05	N/A	6000	6000	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit



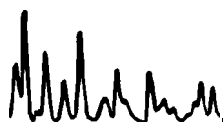
7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501

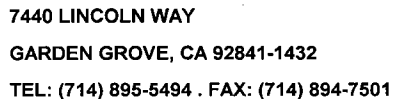
Glossary of Terms and Qualifiers



Work Order Number: 05-03-0162

<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.

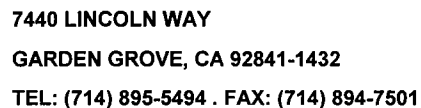




DATE: 3/2/2005
PAGE: 1 OF 1

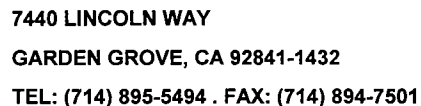
Page 35 of 69

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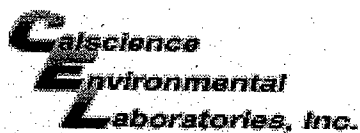
DATE: 3/2/2005
PAGE: 1 OF 1

Page 37 of 69



DATE: 3/2/2005
PAGE: 1 OF 1

Page 38 of 69



WORK ORDER #:

05 - 03 - 0162

Cooler 1 of 2

SAMPLE RECEIPT FORM

CLIENT:

Rotee

DATE:

3/2/15

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.

LABORATORY (Other than CalScience Courier):

☐ °C Temperature blank.☐ °C IR thermometer.☐ Ambient temperature.21 °C Temperature blank.

Initial:

[Signature]

CUSTODY SEAL INTACT:

Sample(s): _____

Cooler: _____

No (Not Intact) : _____

Not Applicable (N/A): _____

Initial:

[Signature]

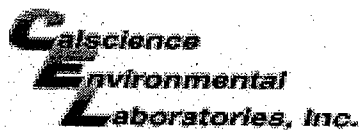
SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<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 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 checked="" type="checkbox"/>
VOA vial(s) free of headspace.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial:

[Signature]

COMMENTS:



WORK ORDER #:

05 - 03 - 0162

Cooler 2 of 2

SAMPLE RECEIPT FORM

CLIENT:

Rotee

DATE:

3/2/15

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.

LABORATORY (Other than Calscience Courier):

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

24 °C Temperature blank.

Initial:

[Signature]

CUSTODY SEAL INTACT:

Sample(s): _____

Cooler: _____

No (Not Intact) : _____

Not Applicable (N/A): _____

Initial:

[Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<u>/</u>		
Sample container label(s) consistent with custody papers.....	<u>/</u>		
Sample container(s) intact and good condition.....	<u>/</u>		
Correct containers 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:

[Signature]

COMMENTS:

March 15, 2005

Mr. Stephen Nowak
Calscience Env. Laboratories
7440 Lincoln Way
Garden Grove, CA 92841-1427

Re: 05-03-0162
PTS File: 35136

Dear Mr. Nowak:

Enclosed are final data for samples submitted from your Project # 05-03-0162. Electronic versions of the data have been previously sent to your attention. All analyses were performed by applicable ASTM, EPA or API methodology. The samples are currently in storage and will be held for thirty days before disposal.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,
PTS Laboratories, Inc.



Larry Kunkel
District Manager

LAK:vk

Encl.

PARTICLE SIZE SUMMARY
(METHODOLOGY: ASTM D422M)

PROJECT NAME: N/A
PROJECT NO: 05-03-0162

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size, mm	Particle Size Distribution, wt. percent				
				Gravel	Sand Size			Silt/Clay
					Coarse	Medium	Fine	
R8-030205	N/A	Medium sand	0.551	0.09	2.54	66.87	28.56	1.94
R7-030205	N/A	Medium sand	0.458	0.21	3.01	54.99	40.78	1.01
R6-030205	N/A	Medium sand	0.533	0.00	3.06	64.86	29.58	2.50

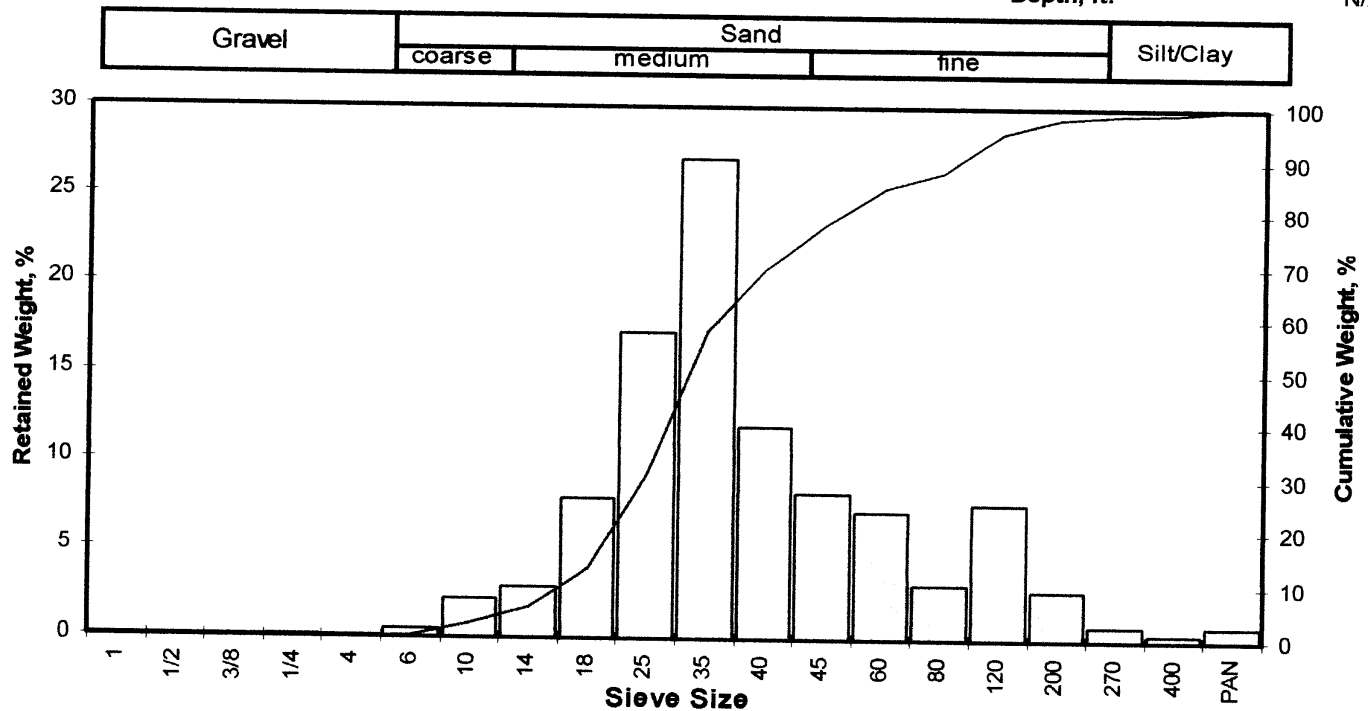
(1) Based on Mean from Trask

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D422M

Client: Calscience Environmental Laboratories, Inc.
 Project: N/A
 Project No: 05-03-0162

PTS File No: 35136
 Sample ID: R8-030205
 Depth, ft: N/A



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.08	0.09	0.09
0.1873	4.757	-2.25	4	0.00	0.00	0.09
0.1324	3.364	-1.75	6	0.41	0.44	0.52
0.0787	2.000	-1.00	10	1.97	2.10	2.63
0.0557	1.414	-0.50	14	2.67	2.85	5.48
0.0394	1.000	0.00	18	7.36	7.86	13.33
0.0278	0.707	0.50	25	16.07	17.15	30.48
0.0197	0.500	1.00	35	25.39	27.10	57.58
0.0166	0.420	1.25	40	11.16	11.91	69.50
0.0139	0.354	1.50	45	7.60	8.11	77.61
0.0098	0.250	2.00	60	6.72	7.17	84.78
0.0070	0.177	2.50	80	2.82	3.01	87.79
0.0049	0.125	3.00	120	7.12	7.60	95.39
0.0029	0.074	3.75	200	2.50	2.67	98.06
0.0021	0.053	4.25	270	0.76	0.81	98.87
0.0015	0.037	4.75	400	0.33	0.35	99.22
			PAN	0.73	0.78	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.58	0.0590	1.498
10	-0.21	0.0456	1.158
16	0.08	0.0373	0.948
25	0.34	0.0311	0.790
40	0.68	0.0246	0.626
50	0.86	0.0217	0.551
60	1.05	0.0190	0.483
75	1.42	0.0147	0.374
84	1.95	0.0102	0.260
90	2.65	0.0063	0.160
95	2.97	0.0050	0.127

Measure	Trask	Inman	Folk-Ward
Median, phi	0.86	0.86	0.86
Median, in.	0.0217	0.0217	0.0217
Median, mm	0.551	0.551	0.551
Mean, phi	0.78	1.01	0.96
Mean, in.	0.0229	0.0195	0.0202
Mean, mm	0.582	0.496	0.514
Sorting	1.454	0.934	1.006
Skewness	0.986	0.162	0.175
Kurtosis	0.208	0.905	1.351

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)
---	---

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.09
Coarse Sand	10	2.54
Medium Sand	40	66.87
Fine Sand	200	28.56
Silt/Clay	<200	1.94
Total		100

TOTALS

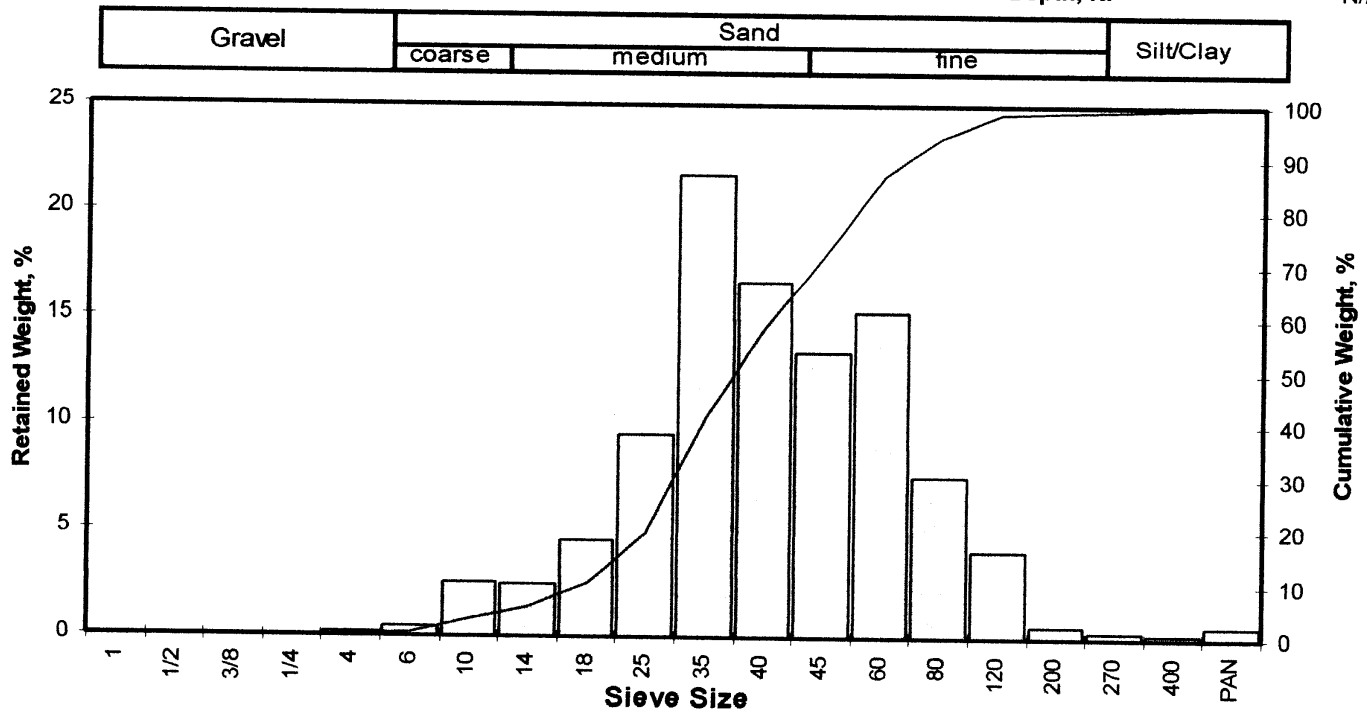
93.69 100.00 100.00

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D422M

Client: Calscience Environmental Laboratories, Inc.
 Project: N/A
 Project No: 05-03-0162

PTS File No: 35136
 Sample ID: R7-030205
 Depth, ft: N/A



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent
Inches	Millimeters					
0.9844	25.002	-4.64	1	0.00	0.00	0.00
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.13	0.21	0.21
0.1324	3.364	-1.75	6	0.27	0.44	0.65
0.0787	2.000	-1.00	10	1.57	2.57	3.22
0.0557	1.414	-0.50	14	1.50	2.45	5.68
0.0394	1.000	0.00	18	2.78	4.55	10.22
0.0278	0.707	0.50	25	5.84	9.55	19.77
0.0197	0.500	1.00	35	13.27	21.70	41.48
0.0166	0.420	1.25	40	10.23	16.73	58.21
0.0139	0.354	1.50	45	8.17	13.36	71.57
0.0098	0.250	2.00	60	9.35	15.29	86.87
0.0070	0.177	2.50	80	4.59	7.51	94.37
0.0049	0.125	3.00	120	2.50	4.09	98.46
0.0029	0.074	3.75	200	0.32	0.52	98.99
0.0021	0.053	4.25	270	0.18	0.29	99.28
0.0015	0.037	4.75	400	0.11	0.18	99.46
PAN				0.33	0.54	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	-0.64	0.0613	1.556
10	-0.02	0.0400	1.017
16	0.30	0.0319	0.811
25	0.62	0.0256	0.650
40	0.97	0.0202	0.512
50	1.13	0.0180	0.458
60	1.28	0.0162	0.411
75	1.61	0.0129	0.327
84	1.91	0.0105	0.267
90	2.21	0.0085	0.216
95	2.58	0.0066	0.168

Measure	Trask	Inman	Folk-Ward
Median, phi	1.13	1.13	1.13
Median, in.	0.0180	0.0180	0.0180
Median, mm	0.458	0.458	0.458
Mean, phi	1.03	1.10	1.11
Mean, in.	0.0192	0.0183	0.0182
Mean, mm	0.489	0.465	0.463
Sorting	1.410	0.802	0.888
Skewness	1.008	-0.029	-0.063
Kurtosis	0.202	1.004	1.328

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Mean from Trask)
--	--

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.21
Coarse Sand	10	3.01
Medium Sand	40	54.99
Fine Sand	200	40.78
Silt/Clay	<200	1.01
Total		100

TOTALS

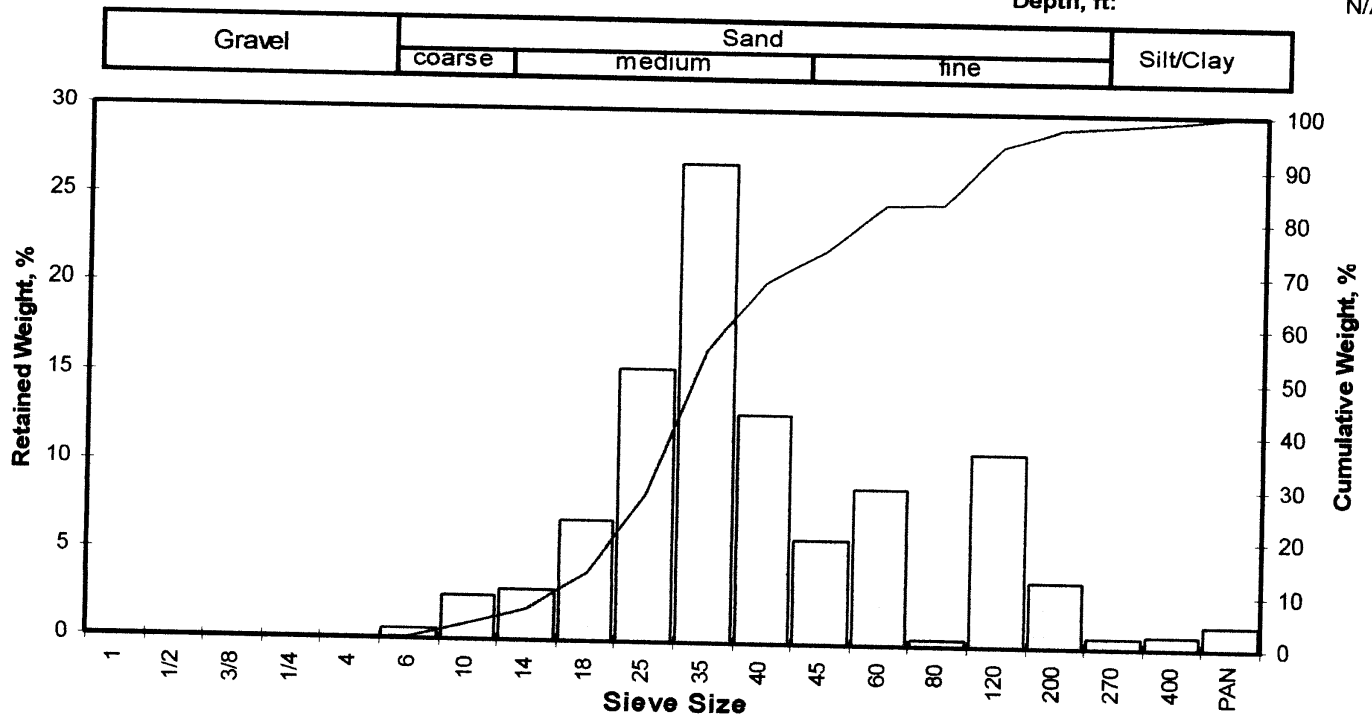
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PTS Laboratories, Inc.

Particle Size Analysis - ASTM D422M

Client: Calscience Environmental Laboratories, Inc.
 Project: 05-03-0162
 Project No: N/A

PTS File No: 35136
 Sample ID: R6-030205
 Depth, ft: N/A



Opening		Phi of Screen	U.S. Sieve No.	Sample Weight grams	Incremental Weight, percent	Cumulative Weight, percent	Cumulative Weight Percent greater than			
Inches	Millimeters						Weight percent	Phi Value	Particle Size	
									Inches	Millimeters
0.9844	25.002	-4.64	1	0.00	0.00	0.00	5	-0.66	0.0621	1.579
0.4922	12.501	-3.64	1/2	0.00	0.00	0.00	10	-0.20	0.0452	1.148
0.3740	9.500	-3.25	3/8	0.00	0.00	0.00	16	0.11	0.0366	0.929
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00	25	0.40	0.0298	0.758
0.1873	4.757	-2.25	4	0.00	0.00	0.00	40	0.72	0.0239	0.606
0.1324	3.364	-1.75	6	0.38	0.53	0.53	50	0.91	0.0210	0.533
0.0787	2.000	-1.00	10	1.80	2.52	3.06	60	1.10	0.0184	0.468
0.0557	1.414	-0.50	14	2.03	2.85	5.90	75	1.57	0.0133	0.337
0.0394	1.000	0.00	18	4.86	6.81	12.72	84	2.55	0.0067	0.171
0.0278	0.707	0.50	25	10.95	15.35	28.07	90	2.82	0.0056	0.141
0.0197	0.500	1.00	35	19.21	26.93	55.01	95	3.23	0.0042	0.106
0.0166	0.420	1.25	40	9.21	12.91	67.92				
0.0139	0.354	1.50	45	4.20	5.89	73.81				
0.0098	0.250	2.00	60	6.29	8.82	82.63				
0.0070	0.177	2.50	80	0.25	0.35	82.98				
0.0049	0.125	3.00	120	7.76	10.88	93.86				
0.0029	0.074	3.75	200	2.60	3.65	97.50				
0.0021	0.053	4.25	270	0.42	0.59	98.09				
0.0015	0.037	4.75	400	0.49	0.69	98.78				
			PAN	0.87	1.22	100.00				
TOTALS				71.32	100.00	100.00				

Measure	Trask	Inman	Folk-Ward
Median, phi	0.91	0.91	0.91
Median, in.	0.0210	0.0210	0.0210
Median, mm	0.533	0.533	0.533
Mean, phi	0.87	1.33	1.19
Mean, in.	0.0216	0.0157	0.0173
Mean, mm	0.548	0.399	0.439
Sorting	1.499	1.220	1.200
Skewness	0.948	0.344	0.270
Kurtosis	0.209	0.596	1.367

Grain Size Description		Medium sand	
(ASTM-USCS Scale)		(based on Mean from Trask)	
Description	Retained on Sieve #	Weight Percent	
Gravel	4	0.00	
Coarse Sand	10	3.06	
Medium Sand	40	64.86	
Fine Sand	200	29.58	
Silt/Clay	<200	2.50	
Total		100	

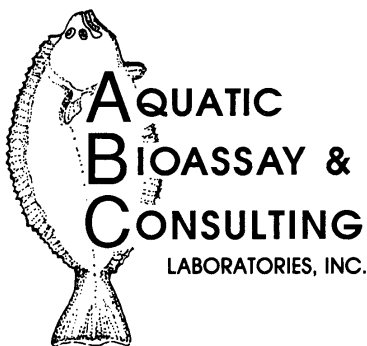
To: PTS

CHAIN OF CUSTODY RECORD

Date 3/4/05

Page 1 of 1

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Q&Q Graphic 714-898-9702



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

March 22, 2005

Mr. Stephen Novak
 Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way
 Garden Grove, CA 92841-1432

Dear Mr. Novak:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods*, EPA/600/R-94/025. Results were as follows:

CLIENT:	Calscience Environmental Laboratories, Inc.
SAMPLE I.D.:	R7-030205
DATE RECEIVED:	4 March 2005
ABC LAB. NO.:	CSE0305.037

***Eohaustorius estuarius* 10 Day Survival Sediment Bioassay**

Percent Survival = 27% Survival

Porewater un-ionized NH₃ mg/L upon sample receipt = 0.002

Initial un-ionized NH₃ mg/L overlaying water = <0.001

Final un-ionized NH₃ mg/L overlaying water = <0.001

Yours very truly,

Thomas (Tim) Mikel
 Laboratory Director

10 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305037	Sample ID: R7-030205
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R7-030205		

Conc-%	1	2	3	4	5
N Control	1.0000	0.9500	1.0000	1.0000	1.0000
100	0.2500	0.2500	0.3500	0.2500	0.2500

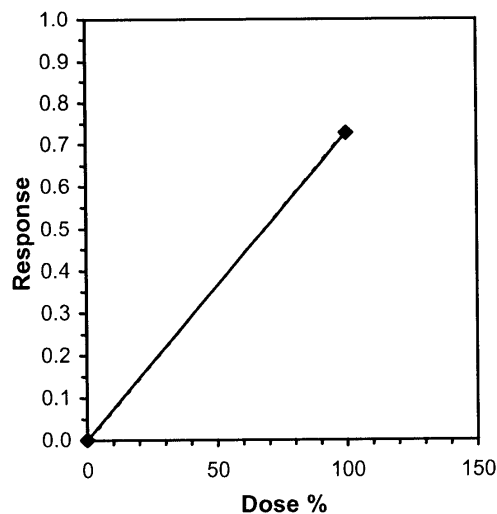
Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	N				Mean	N-Mean
N Control	0.9900	1.0000	1.4361	1.3453	1.4588	3.534	5				0.9900	1.0000
*100	0.2700	0.2727	0.5455	0.5236	0.6331	8.973	5	28.243	1.860	0.0586	0.2700	0.2727

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90037	0.781	-0.0963	1.41373		
F-Test indicates equal variances (p = 0.95)	1.07486	23.1539				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences Treatments vs N Control	0.01888	0.01923	1.98281	0.00249	2.7E-09	1, 8

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew

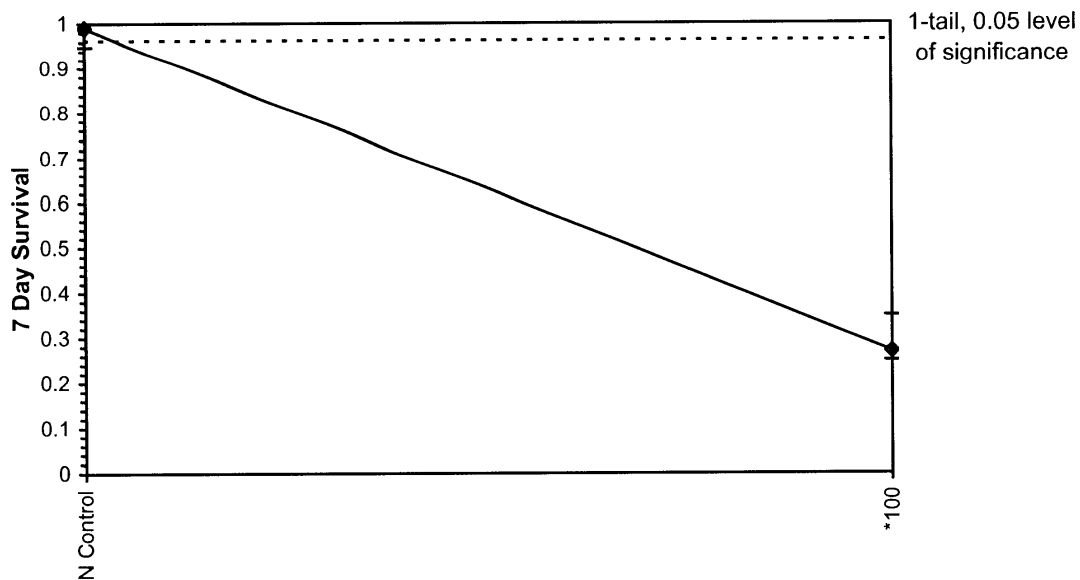
IC05*	6.875	0.189	6.542	7.523	0.7297
IC10*	13.750	0.377	13.083	15.047	0.7297
IC15*	20.625	0.566	19.625	22.570	0.7297
IC20*	27.500	0.755	26.167	30.094	0.7297
IC25*	34.375	0.944	32.708	37.617	0.7297
IC40*	55.000	1.510	52.333	60.187	0.7297
IC50*	68.750	1.887	65.417	75.234	0.7297

* indicates IC estimate less than the lowest concentration



10 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305037	Sample ID: R7-030205
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R7-030205		

Dose-Response Plot

10 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305037	Sample ID: R7-030205
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R7-030205		

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	15.45	15.40	15.50	0.07	1.72	2
100		15.45	15.40	15.50	0.07	1.72	2
N Control	pH	8.10	8.10	8.10	0.00	0.00	2
100		7.80	7.70	7.90	0.14	4.82	2
N Control	DO mg/L	9.25	9.20	9.30	0.07	2.87	2
100		8.55	8.40	8.70	0.21	5.39	2
N Control	Salinity ppt	20.00	20.00	20.00	0.00	0.00	2
100		20.00	20.00	20.00	0.00	0.00	2



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

March 22, 2005

Mr. Stephen Novak
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

Dear Mr. Novak:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods*, EPA/600/R-94/025. Results were as follows:

CLIENT:	Calscience Environmental Laboratories, Inc.
SAMPLE I.D.:	R6-030205
DATE RECEIVED:	4 March 2005
ABC LAB. NO.:	CSE0305.038

***Eohaustorius estuarius* 10 Day Survival Sediment Bioassay**


Percent Survival = 22% Survival

Porewater un-ionized NH₃ mg/L upon sample receipt = 0.003

Initial un-ionized NH₃ mg/L overlaying water = <0.001

Final un-ionized NH₃ mg/L overlaying water = <0.001

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

-7 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305038	Sample ID: R6
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R6-030205		

Conc-%	1	2	3	4	5
N Control	1.0000	0.9500	1.0000	1.0000	1.0000
100	0.3000	0.2000	0.2500	0.1500	0.2000

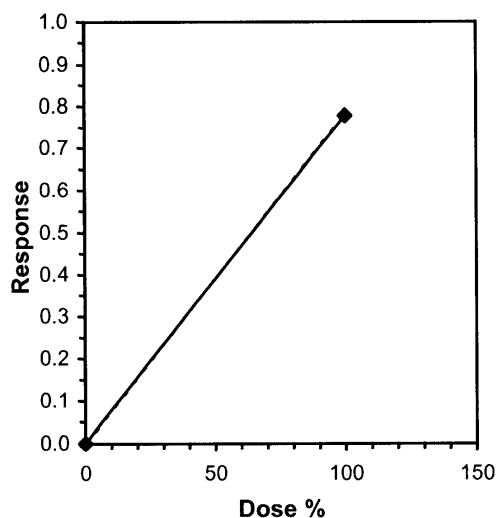
Conc-%	Transform: Arcsin Square Root							1-Tailed		Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean N-Mean
N Control	0.9900	1.0000	1.4361	1.3453	1.4588	3.534	5				0.9900 1.0000
*100	0.2200	0.2222	0.4856	0.3977	0.5796	14.183	5	24.840	1.860	0.0711	0.2200 0.2222

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.90204		0.781		-0.3876	-0.0211
F-Test indicates equal variances (p = 0.57)	1.84224		23.1539			
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates significant differences	0.02375	0.02418	2.25823	0.00366	7.4E-09	1, 8
Treatments vs N Control						

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew

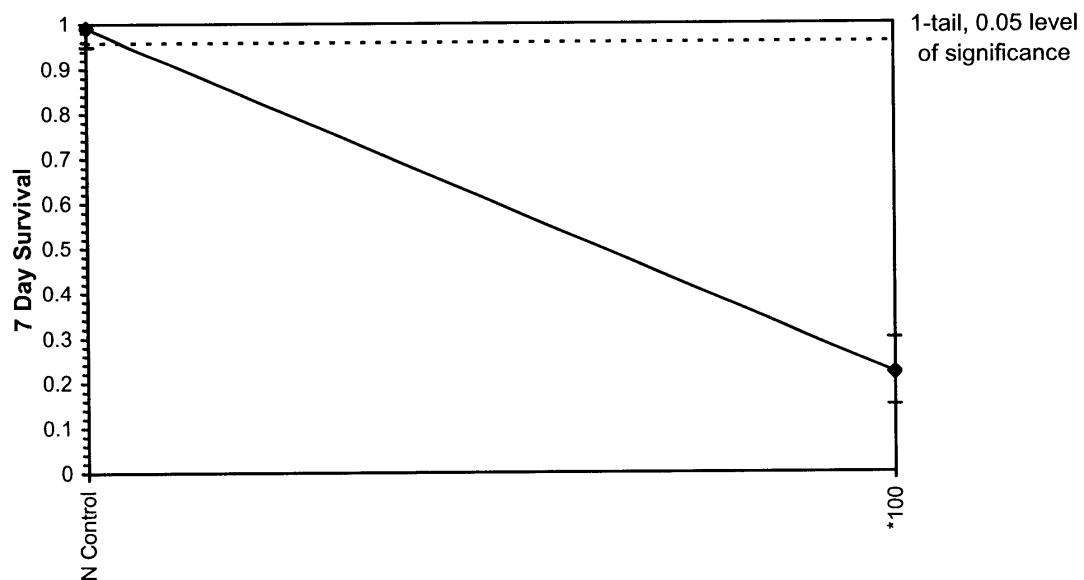
IC05*	6.429	0.181	5.899	6.992	0.1064
IC10*	12.857	0.363	11.798	13.984	0.1064
IC15*	19.286	0.544	17.697	20.977	0.1064
IC20*	25.714	0.725	23.596	27.969	0.1064
IC25*	32.143	0.906	29.495	34.961	0.1064
IC40*	51.429	1.450	47.192	55.937	0.1064
IC50*	64.286	1.813	58.990	69.922	0.1064

* indicates IC estimate less than the lowest concentration



-7 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305038	Sample ID: R6
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R6-030205		

Dose-Response Plot

-7 Day Survival

Start Date: 3/8/2005	Test ID: CSE0305038	Sample ID: R6
End Date: 3/18/2005	Lab ID: CAABC	Sample Type: SED-Sediment Report
Sample Date: 3/2/2005	Protocol: EPAM 94-EPA Marine	Test Species: Ee- Eohaustorius estuarius
Comments: R6-030205		

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	15.45	15.40	15.50	0.07	1.72	2
100		15.45	15.40	15.50	0.07	1.72	2
N Control	pH	8.10	8.10	8.10	0.00	0.00	2
100		7.80	7.70	7.90	0.14	4.82	2
N Control	DO mg/L	9.25	9.20	9.30	0.07	2.87	2
100		8.60	8.50	8.70	0.14	4.37	2
N Control	Salinity ppt	20.00	20.00	20.00	0.00	0.00	2
100		20.00	20.00	20.00	0.00	0.00	2

CHAIN OF CUSTODY RECORD

To: ABC

Page 1 of 1

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

LABORATORY CLIENT:					CLIENT PROJECT NAME / NUMBER: <div style="font-size: large; font-weight: bold;">05-03-0162</div>					P.O. NO.: 																																																																																																																																																																																																																																																
ADDRESS: 					PROJECT CONTACT: <div style="font-size: large; font-weight: bold;">Stephen Nowak</div>					LAB USE ONLY <div style="text-align: center;"><input type="checkbox"/> - <input type="checkbox"/></div>																																																																																																																																																																																																																																																
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<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"><tr><td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">LAB USE ONLY</td><td rowspan="2" style="font-weight: bold;">SAMPLE ID</td><td rowspan="2" style="font-weight: bold;">FIELD POINT NAME (FOR COELT EDF)</td><td colspan="2" style="font-weight: bold;">SAMPLING</td><td rowspan="2" style="font-weight: bold;">MATRIX</td><td rowspan="2" style="font-weight: bold;">NO. OF CONT.</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (G)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX / MTBE (8260B) or OXYGENATES (8260B)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs (8260B)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">SVOCs (8270C)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">PEST (8081A)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs (8082)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">CAC, T2Z METALS (6010B) / 747</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">PNAS (8310) or (8270C)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs (TO-14A) or (TO-15)</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH(G) (TO-3M)</td><td rowspan="2" style="vertical-align: middle; font-style: italic;">Chronic Bioassay</td><td rowspan="2" style="vertical-align: middle; font-style: italic;">E. Estuarinus</td></tr><tr><td style="writing-mode: vertical-rl; transform: rotate(180deg);">DATE</td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">TIME</td></tr><tr><td></td><td>R7-D30205</td><td></td><td>3/2/05</td><td>1015</td><td>S</td><td>3</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td></tr><tr><td></td><td>R6-D30205</td><td></td><td>↓</td><td>1300</td><td>↓</td><td>↓</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr><tr><td></td><td> </td><td></td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td></td><td></td></tr></table>										LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING		MATRIX	NO. OF CONT.	TPH (G)	BTEX / MTBE (8260B) or OXYGENATES (8260B)	VOCs (8260B)	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T2Z METALS (6010B) / 747	PNAS (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Chronic Bioassay	E. Estuarinus	DATE	TIME		R7-D30205		3/2/05	1015	S	3	X	X	X	X	X	X	X	X	X	X	X				R6-D30205		↓	1300	↓	↓	X	X	X	X	X	X	X	X	X	X	X																																																																																																																																																																																						
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Page 55 of 69
Q&Q Graphic 714-898-9702



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

96 Hour *Eohaustorius estuarius* Survival Bioassay - Standard Toxicant

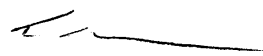
DATE: 10 March -05

STANDARD TOXICANT: Cadmium Chloride

ENDPOINT: SURVIVAL

IC25 =	3.35 mg/l
IC50 =	5.60 mg/l

Yours very truly,



Thomas (Tim) Mikel
Laboratory Director

-96 Hr Survival

Start Date: 3/10/2005	Test ID: Eoh10	Sample ID: CA0000000
End Date: 3/14/2005	Lab ID: CAABC	Sample Type: CDCL-Cadmium chloride
Sample Date: 3/10/2005	Protocol: EPA/600/R-94/025	Test Species: Ee - Ephaustorius estuarius
Comments: Standard Toxicant-Cadmium Chloride		

Conc-mg/L	1	2	3
N Control	1.0000	1.0000	1.0000
0.32	1.0000	1.0000	1.0000
1	0.8000	0.8000	0.8000
3.2	0.9000	0.8000	0.6000
5.6	0.4000	0.5000	0.6000
10	0.0000	0.0000	0.1000

Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed			Isotonic	
			Mean	Min	Max	CV%	N		Critical	MSD	Mean	N-Mean	
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	3					1.0000	1.0000
0.32	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	3	0.000	2.500	0.1908		1.0000	1.0000
*1	0.8000	0.8000	1.1071	1.1071	1.1071	0.000	3	3.994	2.500	0.1908		0.8000	0.8000
*3.2	0.7667	0.7667	1.0808	0.8861	1.2490	16.925	3	4.339	2.500	0.1908		0.7667	0.7667
*5.6	0.5000	0.5000	0.7854	0.6847	0.8861	12.819	3	8.208	2.500	0.1908		0.5000	0.5000
*10	0.0333	0.0333	0.2131	0.1588	0.3218	44.153	3	15.705	2.500	0.1908		0.0333	0.0333

Auxiliary Tests

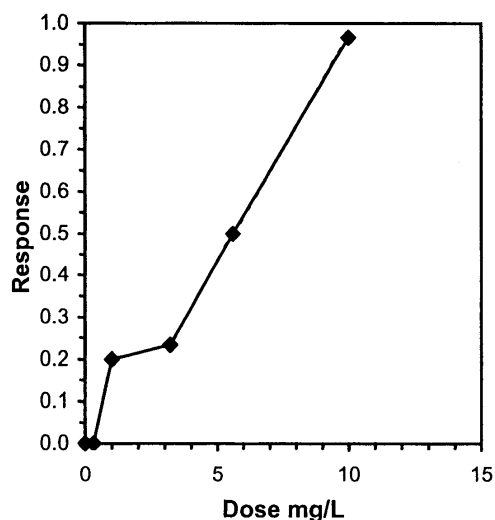
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	Statistic	Critical	Skew	Kurt
	0.86586	0.858	-0.2228	2.11443

Equality of variance cannot be confirmed

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSDp	MSB	MSE	F-Prob	df
Dunnett's Test	0.32	1	0.56569		0.09234	0.09471	0.61366	0.00874	1.8E-08	5, 12
Treatments vs N Control										

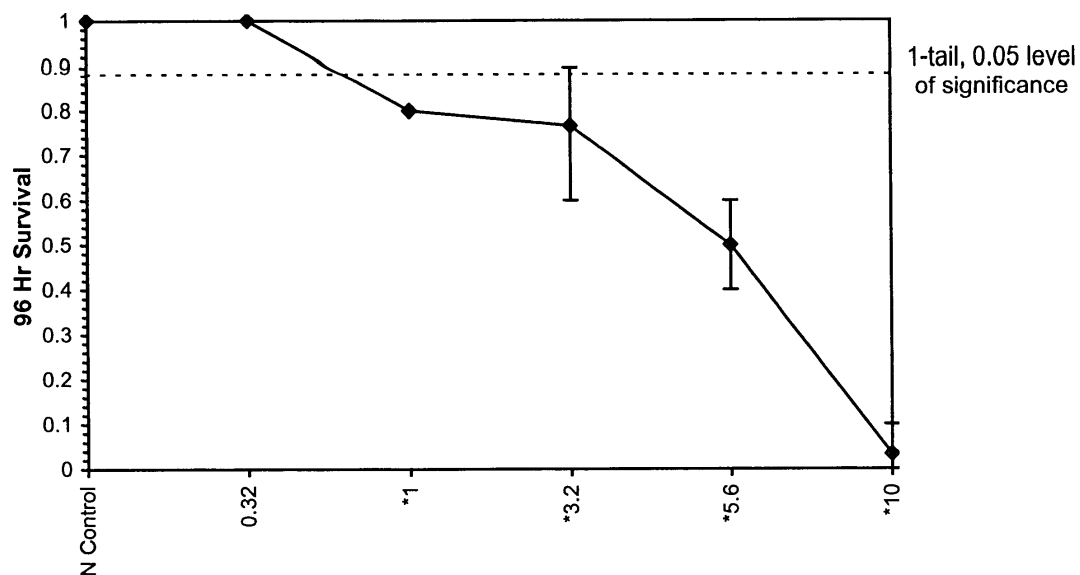
Linear Interpolation (200 Resamples)

Point	mg/L	SD	95% CL(Exp)	Skew
IC05	0.4900	0.0152	0.4900	0.6090
IC10	0.6600	0.0304	0.6600	0.8980
IC15	0.8300	0.5157	0.8300	5.8070
IC20	1.0000	1.0447	1.0000	6.3400
IC25	3.3500	0.7313	0.1331	4.6266
IC40	4.7000	0.4353	2.7785	6.5900
IC50	5.6000	0.3728	4.1600	7.1423



-96 Hr Survival

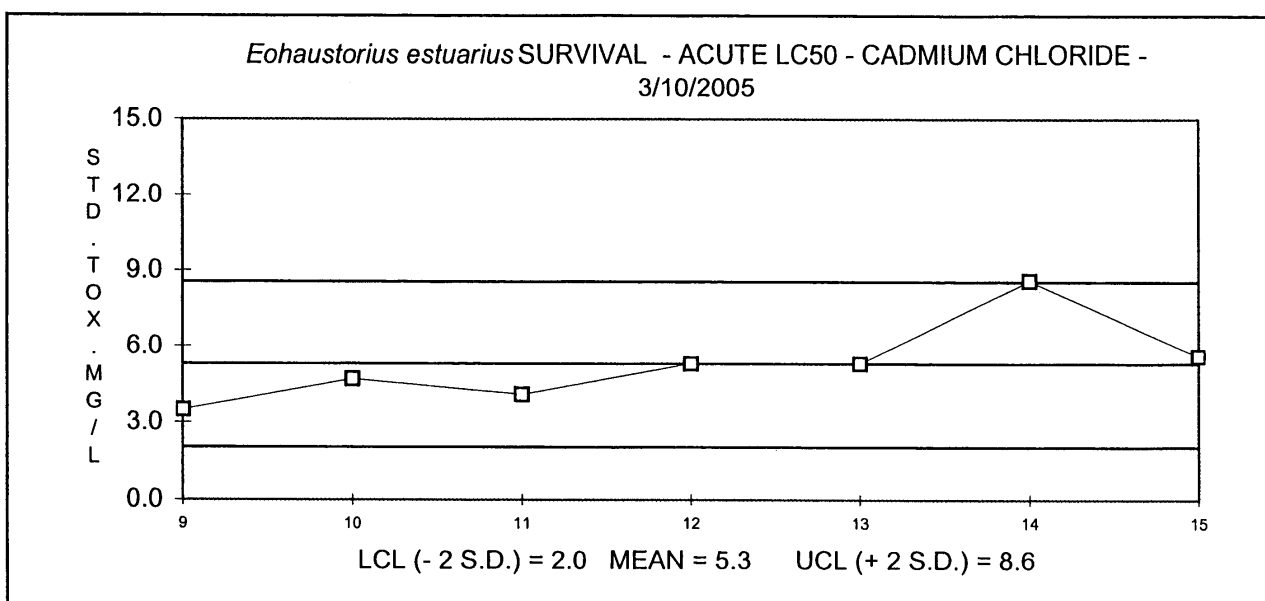
Start Date: 3/10/2005	Test ID: Eoh10	Sample ID: CA0000000
End Date: 3/14/2005	Lab ID: CAABC	Sample Type: CDCL-Cadmium chloride
Sample Date: 3/10/2005	Protocol: EPA/600/R-94/025	Test Species: Ee - Ephaustorius estuarius
Comments: Standard Toxicant-Cadmium Chloride		

Dose-Response Plot

-96 Hr Survival

Start Date: 3/10/2005 Test ID: Eoh10 Sample ID: CA0000000
 End Date: 3/14/2005 Lab ID: CAABC Sample Type: CDCL-Cadmium chloride
 Sample Date: 3/10/2005 Protocol: EPA/600/R-94/025 Test Species: Ee - Ephaustorius estuarius
 Comments: Standard Toxicant-Cadmium Chloride

Auxiliary Data Summary							
Conc-mg/L	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	15.20	15.20	15.20	0.00	0.00	2
0.32		15.20	15.20	15.20	0.00	0.00	2
1		15.20	15.20	15.20	0.00	0.00	2
3.2		15.20	15.20	15.20	0.00	0.00	2
5.6		15.20	15.20	15.20	0.00	0.00	2
10		15.20	15.20	15.20	0.00	0.00	2
N Control	pH	8.05	8.00	8.10	0.07	3.30	2
0.32		8.05	8.00	8.10	0.07	3.30	2
1		8.05	8.00	8.10	0.07	3.30	2
3.2		8.10	8.10	8.10	0.00	0.00	2
5.6		8.10	8.10	8.10	0.00	0.00	2
10		8.05	8.00	8.10	0.07	3.30	2
N Control	DO mg/L	9.35	9.30	9.40	0.07	2.84	2
0.32		9.25	9.20	9.30	0.07	2.87	2
1		9.50	9.50	9.50	0.00	0.00	2
3.2		9.35	9.30	9.40	0.07	2.84	2
5.6		9.40	9.30	9.50	0.14	4.00	2
10		9.40	9.30	9.50	0.14	4.00	2
N Control	Salinity	20.00	20.00	20.00	0.00	0.00	2
0.32		20.00	20.00	20.00	0.00	0.00	2
1		20.00	20.00	20.00	0.00	0.00	2
3.2		20.00	20.00	20.00	0.00	0.00	2
5.6		20.00	20.00	20.00	0.00	0.00	2
10		20.00	20.00	20.00	0.00	0.00	2



QA/QC CHECKLIST FOR SEDIMENT TOXICITY DATA

Eohaustorius estuarius 10 day survival

Project: Cal. Sci.
 QA batch: #1
 Test date: 3/8/05 - 3/18/05
 Reviewed by: mjm

	Yes	No (explain/sample #)
<u>Sample storage</u>		
4 °C in dark	✓	
≤ 14 days	✓	
<u>Test conditions</u>		
5 replicates per station	✓	
20 amphipods/replicate	✓	
Water quality measured at start and end	✓	
Daily checks of beakers	✓	
Organism acclimation >96 hrs and < 2 weeks	✓	
<u>Test acceptability</u>		
Control mean survival ≥90%	✓	
Control survival each rep ≥80%	✓	
Reference toxicant test results within limits	✓	
Temperature = 14-16 °C	✓	
Salinity = 17-23 ‰	✓	
Un-ionized ammonia <0.8 mg/L	✓	
DO > 5 mg/L	✓	
<u>Data validation</u>		
Test data entry	✓	
Water quality data entry	✓	
Statistics verification	✓	
Ref. tox. data entry	✓	



ANALYTICAL RESULTS

Prepared for:

Calscience
7440 Lincoln Way
Garden Grove CA 92841-1432

714-895-5494

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 934118. Samples arrived at the laboratory on Friday, March 04, 2005. The PO# for this group is 05-03-0162.

Client Description

R9-030205 Water Sample
R8-030205 Soil Sample
R7-030205 Soil Sample
R6-030205 Soil Sample

Lancaster Labs Number

4475597
4475598
4475599
4475600

1 COPY TO Calscience

Attn: Stephen Nowak

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "E. Smith".

Elizabeth A. Smith
Senior Chemist



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 4475597

R9-030205 Water Sample
Prj. 05-03-0162

Collected: 03/02/2005 08:55

Account Number: 11053

Submitted: 03/04/2005 08:50

Reported: 03/21/2005 at 09:06

Discard: 04/21/2005

Calscience

7440 Lincoln Way

Garden Grove CA 92841-1432

162R9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
00177	OC Pesticides in Water					
01619	PCB-1016	12674-11-2	< 0.12	0.12	ug/l	1
01620	PCB-1221	11104-28-2	< 0.38	0.38	ug/l	1
01621	PCB-1232	11141-16-5	< 0.29	0.29	ug/l	1
01622	PCB-1242	53469-21-9	< 0.096	0.096	ug/l	1
01623	PCB-1248	12672-29-6	< 0.096	0.096	ug/l	1
01624	PCB-1254	11097-69-1	< 0.12	0.12	ug/l	1
01626	PCB-1260	11096-82-5	< 0.096	0.096	ug/l	1
01887	p,p-DDE	72-55-9	< 0.0029	0.0029	ug/l	1
01888	p,p-DDD	72-54-8	< 0.0057	0.0057	ug/l	1
01889	p,p-DDT	50-29-3	< 0.0082	0.0082	ug/l	1
07077	o,p-DDE	3424-82-6	< 0.0038	0.0038	ug/l	1
07078	o,p-DDD	53-19-0	< 0.0038	0.0038	ug/l	1
07079	o,p-DDT	789-02-6	< 0.0040	0.0040	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00177	OC Pesticides in Water	SW-846 8081A/8082	1	03/11/2005 13:12	Andrea J Covey	1
00817	Water Sample Pest. Extraction	SW-846 3510C	1	03/07/2005 22:15	Karen L Beyer	1



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Lancaster Laboratories Sample No. SW 4475598

R8-030205 Soil Sample
Prj. 05-03-0162

Collected: 03/02/2005 13:20

Account Number: 11053

Submitted: 03/04/2005 08:50
Reported: 03/21/2005 at 09:06
Discard: 04/21/2005

Calscience
7440 Lincoln Way
Garden Grove CA 92841-1432

162R8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01363	OC Pesticides in Solids					
01993	PCB-1016	12674-11-2	< 33.	33.	ug/kg	10
01994	PCB-1221	11104-28-2	< 52.	52.	ug/kg	10
01995	PCB-1232	11141-16-5	< 33.	33.	ug/kg	10
01996	PCB-1242	53469-21-9	< 43.	43.	ug/kg	10
01997	PCB-1248	12672-29-6	< 33.	33.	ug/kg	10
01998	PCB-1254	11097-69-1	55. J	33.	ug/kg	10
01999	PCB-1260	11096-82-5	< 33.	33.	ug/kg	10
03062	p,p-DDE	72-55-9	36.	3.3	ug/kg	10
03063	p,p-DDD	72-54-8	61.	3.3	ug/kg	10
03064	p,p-DDT	50-29-3	14. J	9.0	ug/kg	10
07080	o,p-DDE	3424-82-6	< 5.8	5.8	ug/kg	10
07081	o,p-DDD	53-19-0	21.	3.3	ug/kg	10
07082	o,p-DDT	789-02-6	< 3.3	3.3	ug/kg	10

This sample was injected numerous times and each time the ending calibration standard fell outside the method criteria. This effect is attributed to matrix.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01363	OC Pesticides in Solids	SW-846 8081A/8082	1	03/09/2005 22:55	Mark E McNulty	10
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	03/07/2005 16:50	Kelly E Brickley	1



Lancaster Laboratories, Inc.
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Lancaster Laboratories Sample No. SW 4475599

R7-030205 Soil Sample
Prj. 05-03-0162

Collected: 03/02/2005 10:15

Account Number: 11053

Submitted: 03/04/2005 08:50

Reported: 03/21/2005 at 09:06

Discard: 04/21/2005

Calscience

7440 Lincoln Way

Garden Grove CA 92841-1432

162R7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01363	OC Pesticides in Solids					
01993	PCB-1016	12674-11-2	< 33.	33.	ug/kg	10
01994	PCB-1221	11104-28-2	< 52.	52.	ug/kg	10
01995	PCB-1232	11141-16-5	< 33.	33.	ug/kg	10
01996	PCB-1242	53469-21-9	< 43.	43.	ug/kg	10
01997	PCB-1248	12672-29-6	< 33.	33.	ug/kg	10
01998	PCB-1254	11097-69-1	95. J	33.	ug/kg	10
01999	PCB-1260	11096-82-5	< 33.	33.	ug/kg	10
03062	p,p-DDE	72-55-9	4.8 J	3.3	ug/kg	10
03063	p,p-DDD	72-54-8	6.4 J	3.3	ug/kg	10
03064	p,p-DDT	50-29-3	< 9.0	9.0	ug/kg	10
07080	o,p-DDE	3424-82-6	< 5.8	5.8	ug/kg	10
07081	o,p-DDD	53-19-0	6.5 J	3.3	ug/kg	10
07082	o,p-DDT	789-02-6	< 3.3	3.3	ug/kg	10

This sample was injected numerous times and each time the ending calibration standard fell outside the method criteria. This effect is attributed to matrix.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01363	OC Pesticides in Solids	SW-846 8081A/8082	1	03/10/2005 00:27	Mark E McNulty	10
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	03/07/2005 16:50	Kelly E Brickley	1



Lancaster Laboratories, Inc.
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Lancaster Laboratories Sample No. SW 4475600

R6-030205 Soil Sample
Prj. 05-03-0162

Collected: 03/02/2005 13:00

Account Number: 11053

Submitted: 03/04/2005 08:50
Reported: 03/21/2005 at 09:06
Discard: 04/21/2005

Calscience
7440 Lincoln Way
Garden Grove CA 92841-1432

162R6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01363	OC Pesticides in Solids					
01993	PCB-1016	12674-11-2	< 33.	33.	ug/kg	10
01994	PCB-1221	11104-28-2	< 52.	52.	ug/kg	10
01995	PCB-1232	11141-16-5	< 33.	33.	ug/kg	10
01996	PCB-1242	53469-21-9	< 43.	43.	ug/kg	10
01997	PCB-1248	12672-29-6	< 33.	33.	ug/kg	10
01998	PCB-1254	11097-69-1	76. J	33.	ug/kg	10
01999	PCB-1260	11096-82-5	< 33.	33.	ug/kg	10
03062	p,p-DDE	72-55-9	32.	3.3	ug/kg	10
03063	p,p-DDD	72-54-8	41.	3.3	ug/kg	10
03064	p,p-DDT	50-29-3	< 9.0	9.0	ug/kg	10
07080	o,p-DDE	3424-82-6	< 5.8	5.8	ug/kg	10
07081	o,p-DDD	53-19-0	16. J	3.3	ug/kg	10
07082	o,p-DDT	789-02-6	< 3.3	3.3	ug/kg	10

This sample was injected numerous times and each time the ending calibration standard fell outside the method criteria. This effect is attributed to matrix.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01363	OC Pesticides in Solids	SW-846 8081A/8082	1	03/10/2005 00:45	Mark E McNulty	10
06006	PPL Pesticide Solid Extraction	SW-846 3550B	1	03/07/2005 16:50	Kelly E Brickley	1



Lancaster Laboratories, Inc.
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Quality Control Summary

Client Name: Calscience
Reported: 03/21/05 at 09:06 AM

Group Number: 934118

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 050660001A	Sample number(s): 4475598-4475600							
PCB-1016	< 3.3	3.3	ug/kg					
PCB-1221	< 5.2	5.2	ug/kg					
PCB-1232	< 3.3	3.3	ug/kg					
PCB-1242	< 4.3	4.3	ug/kg					
PCB-1248	< 3.3	3.3	ug/kg					
PCB-1254	< 3.3	3.3	ug/kg					
PCB-1260	< 3.3	3.3	ug/kg					
p,p-DDE	< 0.33	0.33	ug/kg	99		71-143		
p,p-DDD	< 0.33	0.33	ug/kg	96		60-153		
p,p-DDT	< 0.90	0.90	ug/kg	101		67-152		
o,p-DDE	< 0.58	0.58	ug/kg					
o,p-DDD	< 0.33	0.33	ug/kg					
o,p-DDT	< 0.33	0.33	ug/kg					
Batch number: 050660011A	Sample number(s): 4475597							
PCB-1016	< 0.13	0.13	ug/l					
PCB-1221	< 0.40	0.40	ug/l					
PCB-1232	< 0.30	0.30	ug/l					
PCB-1242	< 0.10	0.10	ug/l					
PCB-1248	< 0.10	0.10	ug/l					
PCB-1254	< 0.12	0.12	ug/l					
PCB-1260	< 0.10	0.10	ug/l					
p,p-DDE	< 0.0030	0.0030	ug/l	100	105	44-154	5	30
p,p-DDD	< 0.0059	0.0059	ug/l	95	100	42-155	5	30
p,p-DDT	< 0.0085	0.0085	ug/l	100	105	47-159	5	30
o,p-DDE	< 0.0040	0.0040	ug/l					
o,p-DDD	< 0.0040	0.0040	ug/l					
o,p-DDT	< 0.0042	0.0042	ug/l					

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
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*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories, Inc.
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Quality Control Summary

Client Name: Calscience
Reported: 03/21/05 at 09:06 AM

Group Number: 934118

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 050660001A	Sample number(s): 4475598-4475600							
p,p-DDE	(2)	(2)	48-175	1	50			
p,p-DDD	(2)	(2)	52-181	6	50			
p,p-DDT	-23*	-203*	62-166	200*	50			

Surrogate Quality Control

Analysis Name: OC Pesticides in Solids

Batch number: 050660001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
4475598	86	89
4475599	65	78
4475600	91	103
Blank	95	96
LCS	104	86
MS	91	118
MSD	94	100

Limits: 58-149 62-159

Analysis Name: OC Pesticides in Water

Batch number: 050660011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
4475597	78	117
Blank	87	71
LCS	96	63
LCSD	95	64

Limits: 45-125 47-155

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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LABORATORIES, INC.

GARDEN GROVE, CA 92841-1427

acct#11053 Group#934118

Date 3/3/05

Page 1 of 1

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10/20/04 Revision