

September 16, 2008

Kevin McCarthy  
Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

Subject: **Calscience Work Order No.: 08-08-2740**  
Client Reference: **3519 Castra Valley Blvd., CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/30/2008 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,

Calscience Environmental  
Laboratories, Inc.  
Jessie Kim  
Project Manager

**Analytical Report**



Delta Environmental Consultants  
 4640 SW Macadam Ave; Suite 110  
 Portland, OR 97239-4283

Date Received: 08/30/08  
 Work Order No: 08-08-2740  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 3519 Castra Valley Blvd., CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-6	08-08-2740-2-A	08/28/08 08:20	Aqueous	GC/MS UU	09/08/08	09/08/08 16:38	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.71	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Ethylbenzene	3.4	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Toluene	3.5	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethanol	ND	100	1	
o-Xylene	ND	1.0	1		TPPH	900	50	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>
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	108	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5	08-08-2740-4-A	08/28/08 10:10	Aqueous	GC/MS UU	09/08/08	09/08/08 17:03	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Toluene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethanol	ND	100	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	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>
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	109	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	99	74-110							

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

**Analytical Report**



Delta Environmental Consultants  
 4640 SW Macadam Ave; Suite 110  
 Portland, OR 97239-4283

Date Received: 08/30/08  
 Work Order No: 08-08-2740  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 3519 Castra Valley Blvd., CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4	08-08-2740-8-A	08/28/08 17:00	Aqueous	GC/MS UU	09/08/08	09/08/08 17:27	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Toluene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethanol	ND	100	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	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>
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	110	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-171	N/A	Aqueous	GC/MS UU	09/08/08	09/08/08 13:22	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Toluene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethanol	ND	100	1	
o-Xylene	ND	1.0	1		TPPH	ND	50	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>
Dibromofluoromethane	100	74-140			1,2-Dichloroethane-d4	106	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	99	74-110							

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

## Analytical Report



Delta Environmental Consultants  
 4640 SW Macadam Ave; Suite 110  
 Portland, OR 97239-4283

Date Received: 08/30/08  
 Work Order No: 08-08-2740  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: mg/kg

Project: 3519 Castra Valley Blvd., CA

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-6	08-08-2740-1-A	08/28/08 08:20	Solid	GC/MS PP	09/08/08	09/08/08 16:48	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
o-Xylene	ND	0.0050	1		TPPH	0.70	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	101	73-139			1,2-Dichloroethane-d4	106	73-145		
Toluene-d8	101	90-108			1,4-Bromofluorobenzene	93	71-113		
Toluene-d8-TPPH	105	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-5	08-08-2740-3-A	08/28/08 10:10	Solid	GC/MS PP	09/08/08	09/08/08 17:13	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
o-Xylene	ND	0.0050	1		TPPH	ND	0.50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>
		<u>Limits</u>					<u>Limits</u>		
Dibromofluoromethane	100	73-139			1,2-Dichloroethane-d4	100	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	89	71-113		
Toluene-d8-TPPH	103	88-112							

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

**Analytical Report**

08/30/08  
 08-08-2740  
 EPA 5030B  
 LUFT GC/MS / EPA 8260B  
 mg/kg

Delta Environmental Consultants  
 4640 SW Macadam Ave; Suite 110  
 Portland, OR 97239-4283

Date Received: 08/30/08  
 Work Order No: 08-08-2740  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: mg/kg

Project: 3519 Castra Valley Blvd., CA

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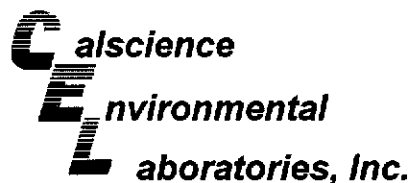
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1	08-08-2740-5-A	08/28/08 14:40	Solid	GC/MS PP	09/08/08	09/08/08 17:38	080908L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.12	25		Methyl-t-Butyl Ether (MTBE)	ND	0.12	25	
1,2-Dibromoethane	ND	0.12	25		Tert-Butyl Alcohol (TBA)	ND	1.2	25	
1,2-Dichloroethane	ND	0.12	25		Diisopropyl Ether (DIPE)	ND	0.25	25	
Ethylbenzene	ND	0.12	25		Ethyl-t-Butyl Ether (ETBE)	ND	0.25	25	
Toluene	ND	0.12	25		Tert-Amyl-Methyl Ether (TAME)	ND	0.25	25	
p/m-Xylene	ND	0.12	25		Ethanol	ND	12	25	
o-Xylene	ND	0.12	25		TPPH	120	12	25	
<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>
Dibromofluoromethane	95	73-139			1,2-Dichloroethane-d4	95	73-145		
Toluene-d8	103	90-108			1,4-Bromofluorobenzene	99	71-113		
Toluene-d8-TPPH	109	88-112							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3	08-08-2740-6-A	08/28/08 15:30	Solid	GC/MS PP	09/08/08	09/08/08 18:04	080908L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	100		Methyl-t-Butyl Ether (MTBE)	ND	0.50	100	
1,2-Dibromoethane	ND	0.50	100		Tert-Butyl Alcohol (TBA)	ND	5.0	100	
1,2-Dichloroethane	ND	0.50	100		Diisopropyl Ether (DIPE)	ND	1.0	100	
Ethylbenzene	2.0	0.50	100		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	100	
Toluene	ND	0.50	100		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	100	
p/m-Xylene	1.7	0.50	100		Ethanol	ND	50	100	
o-Xylene	ND	0.50	100		TPPH	720	50	100	
<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>
Dibromofluoromethane	88	73-139			1,2-Dichloroethane-d4	91	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	91	71-113		
Toluene-d8-TPPH	104	88-112							

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



## Analytical Report



Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

Date Received: 08/30/08  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: mg/kg

Project: 3519 Castra Valley Blvd., CA

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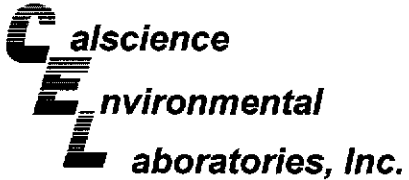
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-4	08-08-2740-7-A	08/28/08 17:00	Solid	GC/MS PP	09/08/08	09/08/08 18:29	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
o-Xylene	ND	0.0050	1		TPPH	ND	0.50	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>
Dibromofluoromethane	98	73-139			1,2-Dichloroethane-d4	99	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	90	71-113		
Toluene-d8-TPPH	103	88-112							

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-769-72	N/A	Solid	GC/MS PP	09/08/08	09/08/08 12:59	080908L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1	
1,2-Dibromoethane	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dichloroethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Toluene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
p/m-Xylene	ND	0.0050	1		Ethanol	ND	0.50	1	
o-Xylene	ND	0.0050	1		TPPH	ND	0.50	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>
Dibromofluoromethane	95	73-139			1,2-Dichloroethane-d4	95	73-145		
Toluene-d8	97	90-108			1,4-Bromofluorobenzene	89	71-113		
Toluene-d8-TPPH	101	88-112							

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



Analytical Report



Delta Environmental Consultants  
 4640 SW Macadam Ave; Suite 110  
 Portland, OR 97239-4283

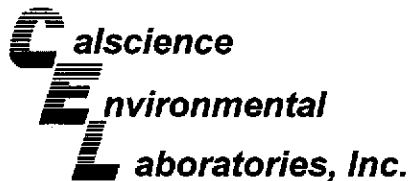
Date Received: 08/30/08  
 Work Order No: 08-08-2740  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: mg/kg

Project: 3519 Castra Valley Blvd., CA Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-769-73	N/A	Solid	GC/MS PP	09/08/08	09/08/08 13:24	080908L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.12	25		Methyl-t-Butyl Ether (MTBE)	ND	0.12	25	
1,2-Dibromoethane	ND	0.12	25		Tert-Butyl Alcohol (TBA)	ND	1.2	25	
1,2-Dichloroethane	ND	0.12	25		Diisopropyl Ether (DIPE)	ND	0.25	25	
Ethylbenzene	ND	0.12	25		Ethyl-t-Butyl Ether (ETBE)	ND	0.25	25	
Toluene	ND	0.12	25		Tert-Amyl-Methyl Ether (TAME)	ND	0.25	25	
p/m-Xylene	ND	0.12	25		Ethanol	ND	12	25	
o-Xylene	ND	0.12	25		TPPH	ND	12	25	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	73-139			1,2-Dichloroethane-d4	96	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	91	71-113		
Toluene-d8-TPPH	102	88-112							

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



## Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

Date Received: 08/30/08  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA  
8260B

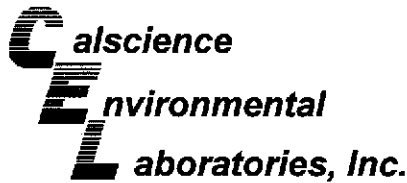
Project 3519 Castra Valley Blvd., CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-2719-8	Aqueous	GC/MS UU	09/08/08	09/08/08	080908S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	96	88-118	2	0-7	
Carbon Tetrachloride	105	104	67-145	1	0-11	
Chlorobenzene	101	101	88-118	0	0-7	
1,2-Dibromoethane	102	103	70-130	1	0-30	
1,2-Dichlorobenzene	107	105	86-116	2	0-8	
1,1-Dichloroethene	105	103	70-130	2	0-25	
Ethylbenzene	101	102	70-130	1	0-30	
Toluene	104	103	87-123	1	0-8	
Trichloroethene	104	101	79-127	3	0-10	
Vinyl Chloride	99	98	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	109	105	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	124	119	36-168	4	0-45	
Diisopropyl Ether (DIPE)	108	107	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	100	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	99	72-126	2	0-12	
Ethanol	104	97	53-149	6	0-31	

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

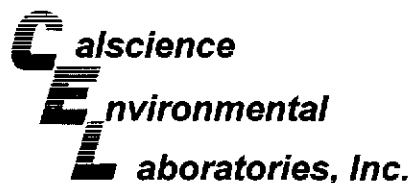
Date Received: 08/30/08  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA  
8260B

Project 3519 Castra Valley Blvd., CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-2726-1	Solid	GC/MS PP	09/08/08	09/08/08	080908S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	90	79-115	1	0-13	
Carbon Tetrachloride	88	87	55-139	1	0-15	
Chlorobenzene	99	98	79-115	1	0-17	
1,2-Dibromoethane	100	97	70-130	4	0-30	
1,2-Dichlorobenzene	97	97	63-123	0	0-23	
1,1-Dichloroethene	89	85	69-123	5	0-16	
Ethylbenzene	102	100	70-130	2	0-30	
Toluene	94	91	79-115	3	0-15	
Trichloroethene	91	89	66-144	3	0-14	
Vinyl Chloride	93	91	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	92	91	68-128	2	0-14	
Tert-Butyl Alcohol (TBA)	87	90	44-134	3	0-37	
Diisopropyl Ether (DIPE)	92	90	75-123	2	0-12	
Ethyl-t-Butyl Ether (ETBE)	90	88	75-117	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	92	79-115	2	0-12	
Ethanol	99	92	42-138	8	0-28	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

Date Received: N/A  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 3519 Castra Valley Blvd., CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-171	Aqueous	GC/MS UU	09/08/08	09/08/08	080908L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	93	98	84-120	78-126	5	0-8	
Carbon Tetrachloride	102	107	63-147	49-161	5	0-10	
Chlorobenzene	99	102	89-119	84-124	4	0-7	
1,2-Dibromoethane	100	103	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	105	102	89-119	84-124	2	0-9	
1,1-Dichloroethene	95	104	77-125	69-133	9	0-16	
Ethylbenzene	99	104	80-120	73-127	5	0-20	
Toluene	99	105	83-125	76-132	6	0-9	
Trichloroethene	100	107	89-119	84-124	6	0-8	
Vinyl Chloride	96	101	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	100	100	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	96	95	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	101	105	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	96	97	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	98	76-124	68-132	1	0-10	
Ethanol	98	102	60-138	47-151	5	0-32	
TPPH	110	102	65-135	53-147	8	0-30	

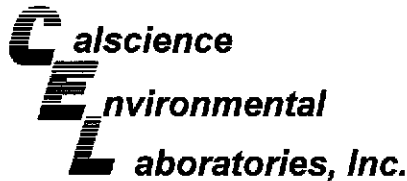
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

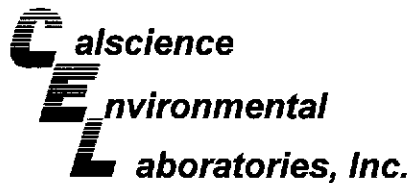
Date Received: N/A  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 3519 Castra Valley Blvd., CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-769-72	Solid	GC/MS PP	09/08/08	09/08/08	080908L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	95	93	84-114	79-119	2	0-7	
Carbon Tetrachloride	94	94	66-132	55-143	0	0-12	
Chlorobenzene	103	102	87-111	83-115	0	0-7	
1,2-Dibromoethane	103	101	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	103	104	79-115	73-121	0	0-8	
1,1-Dichloroethene	94	93	73-121	65-129	2	0-12	
Ethylbenzene	109	106	80-120	73-127	2	0-20	
Toluene	99	94	78-114	72-120	5	0-7	
Trichloroethene	98	97	84-114	79-119	2	0-8	
Vinyl Chloride	98	98	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	91	91	77-125	69-133	0	0-11	
Tert-Butyl Alcohol (TBA)	94	89	47-137	32-152	5	0-27	
Diisopropyl Ether (DIPE)	93	93	76-130	67-139	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	89	91	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	94	82-118	76-124	2	0-11	
Ethanol	97	100	59-131	47-143	4	0-21	
TPPH	97	93	65-135	53-147	4	0-30	

Total number of LCS compounds : 17  
Total number of ME compounds : 0  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants  
4640 SW Macadam Ave; Suite 110  
Portland, OR 97239-4283

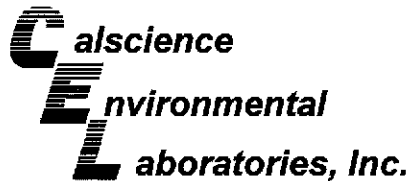
Date Received: N/A  
Work Order No: 08-08-2740  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 3519 Castra Valley Blvd., CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-769-73	Solid	GC/MS PP	09/08/08	09/08/08	080908L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	93	84-114	79-119	2	0-7	
Carbon Tetrachloride	94	94	66-132	55-143	0	0-12	
Chlorobenzene	103	102	87-111	83-115	0	0-7	
1,2-Dibromoethane	103	101	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	103	104	79-115	73-121	0	0-8	
1,1-Dichloroethene	94	93	73-121	65-129	2	0-12	
Ethylbenzene	109	106	80-120	73-127	2	0-20	
Toluene	99	94	78-114	72-120	5	0-7	
Trichloroethene	98	97	84-114	79-119	2	0-8	
Vinyl Chloride	98	98	63-129	52-140	0	0-15	
Methyl-t-Butyl Ether (MTBE)	91	91	77-125	69-133	0	0-11	
Tert-Butyl Alcohol (TBA)	94	89	47-137	32-152	5	0-27	
Diisopropyl Ether (DIPE)	93	93	76-130	67-139	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	89	91	76-124	68-132	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	94	82-118	76-124	2	0-11	
Ethanol	97	100	59-131	47-143	4	0-21	
TPPH	97	93	65-135	53-147	4	0-30	

Total number of LCS compounds : 17  
Total number of ME compounds : 0  
Total number of ME compounds allowed : 1  
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



## Glossary of Terms and Qualifiers



Work Order Number: 08-08-2740

<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 (MS) or Matrix Spike Duplicate (MSD) 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.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
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.



# Shell Oil Products Chain Of Custody Record

- LAB (LOCATION)
- CALSCIENCE ( )
  - SPL ( )
  - XEROX ( )
  - TEST AMERICA ( )
  - OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SDA&N	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: Charla Onal INCIDENT # (ENV SERVICES) 97767819  CHECK IF NO INCIDENT # APPLIES

PO # 97757 SAP # 171445 DATE: \_\_\_\_\_ PAGE: 1 of 1

CONSULTANT COMPANY: **Delta Consultants**

ADDRESS: **4640 SW Macadam Avenue; Suite 110**

CITY: **Portland, OR 97239**

TELEPHONE: **1-800-477-7411** FAX: **503.638.7819** EMAIL: **kmccarthy@deltaenv.com**

SITE ADDRESS: Street and City 3519 Castro Valley Blvd State CA GLOBAL ID NO: \_\_\_\_\_

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico PHONE NO: 408-826-1862 EMAIL: apico@deltaenv.com CONSULTANT PROJECT NO: \_\_\_\_\_

TURNAROUND TIME (CALENDAR DAYS):  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SAMPLER NAME(S) (Print): Steph Hargrave LAB USE ONLY: 08-2740

SPECIAL INSTRUCTIONS OR NOTES :

Please also email results to: droulette@deltaenv.com jeckart@deltaenv.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDO NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

### REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - Gas, Purgeable (8018M)	TPH - Diesel Range Only (8018M)	BTX (8280B)	6 Oxygenates (8280B) (MIB, TBA, DIPE, TAME, ETBE)	MTBE (8280B)	TBA (8280B)	DIPE (8280B)	TAME (8280B)	ETBE (8280B)	1,2 DCA (8280B)	ED8 (8280B)	Ethanol (8280B)	Methanol (8016M)	TPH-motor oil (8016M)	TDS (166L1)	Total Iron (8010B)	Total Lead (8010B) (H-Soppn. run STL C)	CAM 17	Total Oil and Grease (1664A)	TEMPERATURE ON RECEIPT	
		DATE	TIME		HCL	HN03	H2SO4	NONE	OTHER																					°C	
1	B-6	8/28/08	820	Soil					X	1	X	X	X						X	X	X										
2	B-6		820	Water	X				X	6	X	X	X						X	X	X										
3	B-5		1010	Soil					X	1	X	X	X						X	X	X										
4	B-5		1010	Water	X				X	X	X	X	X						X	X	X										
5	B-1		1440	Soil					X	1	X	X	X						X	X	X										
6	B-3		1530	Soil					X	1	X	X	X						X	X	X										
7	B-4		1700	Soil					X	1	X	X	X						X	X	X										
8	B-4		1700	Water	X				X	6	X	X	X						X	X	X										

NO CAM 17

Relinquished by: (Signature)	Received by: (Signature)	Date: <u>8/28/08</u>	Time: <u>1345</u>
Relinquished by: (Signature)	Received by: (Signature)	Date: <u>08-30-08</u>	Time: <u>9:30</u>

TRK #: 105528612

WORK ORDER #: **08** -   -

Cooler 1 of 1

**SAMPLE RECEIPT FORM**

CLIENT: DECTA

DATE: 08-30-08

**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 (For Air & Filter only).
- \_\_\_\_\_ °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

- 03.7 °C Temperature blank.
- \_\_\_\_\_ °C IR thermometer.
- \_\_\_\_\_ Ambient temperature (For Air & Filter only).

Initial: TD

**CUSTODY SEAL INTACT:**

Sample(s): \_\_\_\_\_ Cooler: \_\_\_\_\_ No (Not Intact) : \_\_\_\_\_ Not Present: ✓

Initial: TD

**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 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: TD

**COMMENTS:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WORK ORDER #: **08** - **08** - **2740**

Cooler    of   

### SAMPLE RECEIPT FORM

CLIENT: DECA

DATE: 08-30-08

**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 (For Air & Filter only).
- \_\_\_\_\_ °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

- 03.7 °C Temperature blank.
- \_\_\_\_\_ °C IR thermometer.
- Ambient temperature (For Air & Filter only).

Initial: TD

**CUSTODY SEAL INTACT:**

Sample(s): \_\_\_\_\_ Cooler: \_\_\_\_\_ No (Not Intact) : \_\_\_\_\_ Not Present:   

Initial: TD

**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: TD

**COMMENTS:**

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