

May 25, 2011

Shawn Simmons
Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Subject: **Calscience Work Order No.: 11-05-1226**
Client Reference: EI Segundo 24-Hour Study

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/19/2011 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Villafania".

Calscience Environmental
Laboratories, Inc.
Richard Villafania
Project Manager

Analytical Report



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received: 05/19/11
Work Order No: 11-05-1226
Preparation: N/A / EPA 245.1 Total
Method: EPA 200.8 / EPA 245.1
Units: ug/L

Project: El Segundo 24-Hour Study

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Intake Composite	11-05-1226-1-A	05/18/11 12:00	Aqueous	ICP/MS 04	05/23/11	05/23/11 20:50	110523L02

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

-Mercury analysis was performed on 05/20/11 12:29 with batch 110520L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	5.00	1.90	5		Selenium	4.24	5.00	2.77	5	J
Arsenic	ND	5.00	2.94	5		Silver	ND	5.00	0.600	5	
Barium	ND	5.00	0.525	5		Thallium	ND	5.00	2.49	5	
Beryllium	0.709	5.00	0.655	5	J	Zinc	ND	25.0	9.00	5	
Cadmium	ND	5.00	1.33	5		Aluminum	ND	250	52.5	5	
Chromium	ND	5.00	3.09	5		Iron	144	250	61.0	5	J
Cobalt	ND	5.00	0.700	5		Manganese	ND	5.00	3.10	5	
Copper	4.50	5.00	0.525	5	J	Tin	ND	5.00	1.83	5	
Lead	ND	5.00	0.850	5		Titanium	6.04	5.00	0.281	5	
Molybdenum	13.4	5.00	1.45	5		Boron	1710	250	75.3	5	
Nickel	2.13	5.00	0.775	5	J	Mercury	ND	0.500	0.0348	1	

Intake Composite Duplicate	11-05-1226-2-A	05/18/11 12:00	Aqueous	ICP/MS 04	05/23/11	05/23/11 20:56	110523L02
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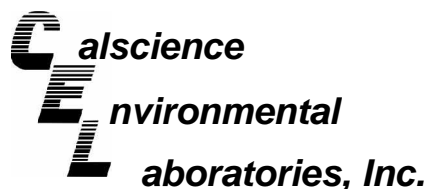
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 05/20/11 12:31 with batch 110520L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	5.00	1.90	5		Selenium	5.74	5.00	2.77	5	
Arsenic	ND	5.00	2.94	5		Silver	ND	5.00	0.600	5	
Barium	ND	5.00	0.525	5		Thallium	ND	5.00	2.49	5	
Beryllium	1.23	5.00	0.655	5	J	Zinc	14.6	25.0	9.00	5	J
Cadmium	ND	5.00	1.33	5		Aluminum	ND	250	52.5	5	
Chromium	ND	5.00	3.09	5		Iron	97.8	250	61.0	5	J
Cobalt	ND	5.00	0.700	5		Manganese	ND	5.00	3.10	5	
Copper	1.72	5.00	0.525	5	J	Tin	ND	5.00	1.83	5	
Lead	ND	5.00	0.850	5		Titanium	5.33	5.00	0.281	5	
Molybdenum	13.6	5.00	1.45	5		Boron	1630	250	75.3	5	
Nickel	1.80	5.00	0.775	5	J	Mercury	ND	0.500	0.0348	1	

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





Analytical Report



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received: 05/19/11
Work Order No: 11-05-1226
Preparation: N/A / EPA 245.1 Total
Method: EPA 200.8 / EPA 245.1
Units: ug/L

Project: El Segundo 24-Hour Study

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Outfall Composite	11-05-1226-3-A	05/18/11 12:00	Aqueous	ICP/MS 04	05/23/11	05/23/11 21:02	110523L02

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

-Mercury analysis was performed on 05/20/11 12:33 with batch 110520L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	5.00	1.90	5		Selenium	5.78	5.00	2.77	5	
Arsenic	ND	5.00	2.94	5		Silver	ND	5.00	0.600	5	
Barium	1.77	5.00	0.525	5	J	Thallium	ND	5.00	2.49	5	
Beryllium	1.81	5.00	0.655	5	J	Zinc	36.5	25.0	9.00	5	
Cadmium	ND	5.00	1.33	5		Aluminum	91.4	250	52.5	5	J
Chromium	ND	5.00	3.09	5		Iron	177	250	61.0	5	J
Cobalt	ND	5.00	0.700	5		Manganese	ND	5.00	3.10	5	
Copper	5.40	5.00	0.525	5		Tin	ND	5.00	1.83	5	
Lead	0.948	5.00	0.850	5	J	Titanium	7.23	5.00	0.281	5	
Molybdenum	14.4	5.00	1.45	5		Boron	1660	250	75.3	5	
Nickel	1.45	5.00	0.775	5	J	Mercury	ND	0.500	0.0348	1	

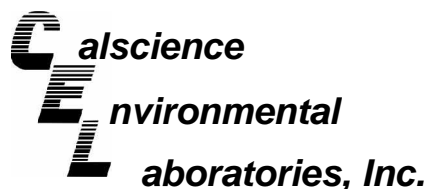
Outfall Composite duplicate	11-05-1226-4-A	05/18/11 12:00	Aqueous	ICP/MS 04	05/23/11	05/23/11 21:08	110523L02
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 05/20/11 12:36 with batch 110520L01.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	5.00	1.90	5		Selenium	4.70	5.00	2.77	5	J
Arsenic	ND	5.00	2.94	5		Silver	ND	5.00	0.600	5	
Barium	2.36	5.00	0.525	5	J	Thallium	ND	5.00	2.49	5	
Beryllium	1.16	5.00	0.655	5	J	Zinc	40.1	25.0	9.00	5	
Cadmium	ND	5.00	1.33	5		Aluminum	91.9	250	52.5	5	J
Chromium	ND	5.00	3.09	5		Iron	202	250	61.0	5	J
Cobalt	ND	5.00	0.700	5		Manganese	3.12	5.00	3.10	5	J
Copper	6.07	5.00	0.525	5		Tin	ND	5.00	1.83	5	
Lead	0.996	5.00	0.850	5	J	Titanium	7.65	5.00	0.281	5	
Molybdenum	14.5	5.00	1.45	5		Boron	1640	250	75.3	5	
Nickel	3.71	5.00	0.775	5	J	Mercury	ND	0.500	0.0348	1	

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



Analytical Report



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Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
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Date Received: 05/19/11
Work Order No: 11-05-1226
Preparation: N/A / EPA 245.1 Total
Method: EPA 200.8 / EPA 245.1
Units: ug/L

Project: El Segundo 24-Hour Study

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-008-1,650	N/A	Aqueous	ICP/MS 04	05/23/11	05/23/11 19:13	110523L02

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

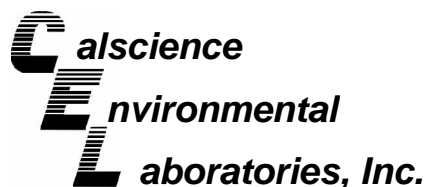
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	1.00	0.380	1		Selenium	ND	1.00	0.554	1	
Arsenic	ND	1.00	0.589	1		Silver	ND	1.00	0.120	1	
Barium	ND	1.00	0.105	1		Thallium	ND	1.00	0.498	1	
Beryllium	ND	1.00	0.131	1		Zinc	ND	5.00	1.80	1	
Cadmium	ND	1.00	0.266	1		Aluminum	ND	50.0	10.5	1	
Chromium	ND	1.00	0.618	1		Iron	ND	50.0	12.2	1	
Cobalt	ND	1.00	0.140	1		Manganese	ND	1.00	0.620	1	
Copper	ND	1.00	0.105	1		Tin	ND	1.00	0.366	1	
Lead	ND	1.00	0.170	1		Titanium	ND	1.00	0.0562	1	
Molybdenum	ND	1.00	0.290	1		Boron	ND	50.0	15.1	1	
Nickel	ND	1.00	0.155	1							

Method Blank	099-04-008-5,360	N/A	Aqueous	Mercury	05/20/11	05/20/11 12:18	110520L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.500	0.0348	1	

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



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Date Received: 05/19/11
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 1 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Intake Composite	11-05-1226-1	05/18/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride	0.85	1.0	0.33	10	J	mg/L	N/A	05/19/11	EPA 300.0
Bromide	70	1.0	0.56	10		mg/L	N/A	05/19/11	EPA 300.0
Color	5.0	5.0	5.0	1		Color unit	05/19/11	05/19/11	SM 2120 B
Total Kjeldahl Nitrogen	0.56	0.50	0.46	1		mg/L	05/23/11	05/23/11	SM 4500 N Org B
Total Phosphate	0.26	0.31	0.067	1	J	mg/L	05/23/11	05/23/11	SM 4500 P B/E
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Ammonia (as N)	ND	0.10	0.094	1		mg/L	05/23/11	05/23/11	SM 4500-NH3 B/C
Biochemical Oxygen Demand	ND	1.0	0.58	1		mg/L	05/19/11	05/24/11	SM 5210 B
Carbon, Total Organic	0.13	0.50	0.10	1	J	mg/L	N/A	05/19/11	SM 5310 D
MBAS	ND	0.10	0.089	1		mg/L	05/19/11	05/19/11	SM 5540C

Outfall Composite	11-05-1226-3	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

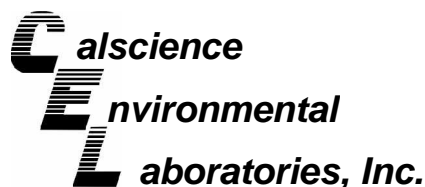
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride	0.92	1.0	0.33	10	J	mg/L	N/A	05/19/11	EPA 300.0
Bromide	68	1.0	0.56	10		mg/L	N/A	05/19/11	EPA 300.0
Color	5.0	5.0	5.0	1		Color unit	05/19/11	05/19/11	SM 2120 B
Total Kjeldahl Nitrogen	1.4	0.50	0.46	1		mg/L	05/23/11	05/23/11	SM 4500 N Org B
Total Phosphate	0.28	0.31	0.067	1	J	mg/L	05/23/11	05/23/11	SM 4500 P B/E
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Ammonia (as N)	ND	0.10	0.094	1		mg/L	05/23/11	05/23/11	SM 4500-NH3 B/C
Biochemical Oxygen Demand	ND	1.0	0.58	1		mg/L	05/19/11	05/24/11	SM 5210 B
Carbon, Total Organic	0.18	0.50	0.10	1	J	mg/L	N/A	05/19/11	SM 5310 D
MBAS	ND	0.10	0.089	1		mg/L	05/19/11	05/19/11	SM 5540C

Outfall Composite duplicate	11-05-1226-4	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Biochemical Oxygen Demand	ND	1.0	0.58	1		mg/L	05/19/11	05/24/11	SM 5210 B
Carbon, Total Organic	0.18	0.50	0.10	1	J	mg/L	N/A	05/19/11	SM 5310 D

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



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Westminster, CA 92683-5202

Date Received: 05/19/11
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 2 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Intake	11-05-1226-5	05/17/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.93	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-6	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.59	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-7	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

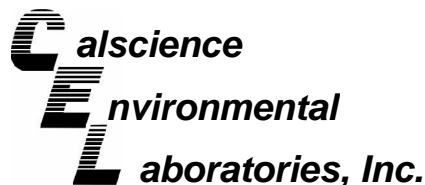
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.73	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-8	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	1.7	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	1.3	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

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



Analytical Report



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Date Received: 05/19/11
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 3 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Intake	11-05-1226-9	05/18/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	1.0	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-10	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.51	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-11	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

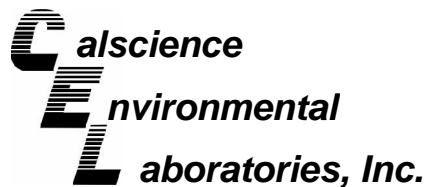
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.65	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Intake	11-05-1226-12	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	1.1	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

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



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Date Received: 05/19/11
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 4 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Intake	11-05-1226-13	05/18/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.71	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Outfall	11-05-1226-14	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.48	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Outfall	11-05-1226-15	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

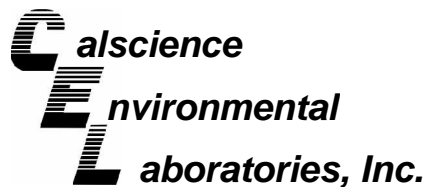
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.98	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B

Outfall	11-05-1226-16	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.88	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

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



Analytical Report



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received: 05/19/11
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 5 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Outfall	11-05-1226-17	05/17/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.64	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

Outfall	11-05-1226-18	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.57	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

Outfall	11-05-1226-19	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

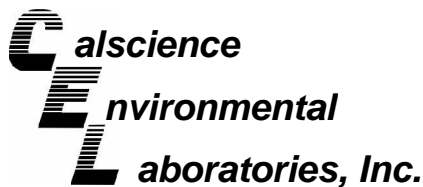
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.75	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

Outfall	11-05-1226-20	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	1.3	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

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



Analytical Report



Southern California Edison Company
 Edison Chemical Services
 7301 Fenwick Lane, 2nd Floor
 Westminster, CA 92683-5202

Date Received: 05/19/11
 Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Page 6 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Outfall	11-05-1226-21	05/18/11	Aqueous

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

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.55	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

Outfall	11-05-1226-22	05/18/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

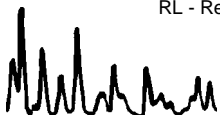
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Phenolics, Total	0.66	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	1.0	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

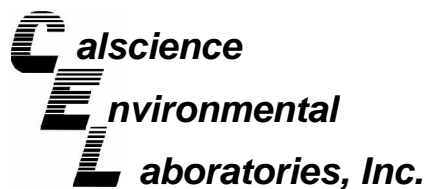
Outfall Duplicate	11-05-1226-23	05/17/11	Aqueous
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Comment(s): Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B

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





Analytical Report



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received: 05/19/11
Work Order No: 11-05-1226

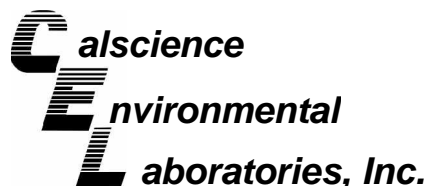
Project: El Segundo 24-Hour Study

Page 7 of 7

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Fluoride	ND	0.10	0.033	1		mg/L	N/A	05/19/11	EPA 300.0
Bromide	ND	0.10	0.056	1		mg/L	N/A	05/19/11	EPA 300.0
Phenolics, Total	ND	0.10	0.046	1		mg/L	05/19/11	05/19/11	EPA 420.1
Total Kjeldahl Nitrogen	ND	0.50	0.46	1		mg/L	05/23/11	05/23/11	SM 4500 N Org B
Total Phosphate	ND	0.31	0.067	1		mg/L	05/23/11	05/23/11	SM 4500 P B/E
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Sulfide, Total	ND	0.050	0.042	1		mg/L	05/19/11	05/19/11	SM 4500 S2 - D
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/19/11	05/19/11	SM 4500-CN E
Cyanide, Total	ND	0.020	0.0070	1		mg/L	05/21/11	05/21/11	SM 4500-CN E
Ammonia (as N)	ND	0.10	0.094	1		mg/L	05/23/11	05/23/11	SM 4500-NH3 B/C
Biochemical Oxygen Demand	ND	1.0	0.58	1		mg/L	05/19/11	05/24/11	SM 5210 B
Carbon, Total Organic	ND	0.50	0.10	1		mg/L	N/A	05/19/11	SM 5310 D
Oil and Grease	ND	1.0	0.88	1		mg/L	05/20/11	05/20/11	SM 5520 B
Oil and Grease	ND	1.0	0.88	1		mg/L	05/23/11	05/23/11	SM 5520 B
MBAS	ND	0.10	0.089	1		mg/L	05/19/11	05/19/11	SM 5540C

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



Quality Control - Spike/Spike Duplicate



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

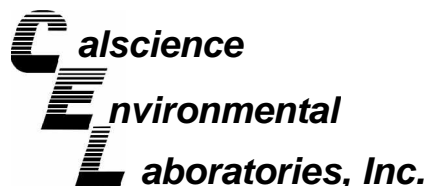
Date Received: 05/19/11
Work Order No: 11-05-1226
Preparation: N/A
Method: EPA 200.8

Project El Segundo 24-Hour Study

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Intake Composite Duplicate	Aqueous	ICP/MS 04	05/23/11	05/23/11	110523S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	108	109	80-120	1	0-20	
Arsenic	112	111	80-120	1	0-20	
Barium	109	112	80-120	3	0-20	
Beryllium	103	108	80-120	5	0-20	
Cadmium	107	105	80-120	2	0-20	
Chromium	105	105	80-120	0	0-20	
Cobalt	100	100	80-120	0	0-20	
Copper	101	103	80-120	2	0-20	
Lead	109	108	80-120	0	0-20	
Molybdenum	114	116	80-120	2	0-20	
Nickel	106	105	80-120	1	0-20	
Selenium	102	104	80-120	2	0-20	
Silver	121	120	80-120	1	0-20	3
Thallium	104	106	80-120	3	0-20	
Zinc	144	141	80-120	2	0-20	3
Aluminum	154	238	80-120	43	0-20	3,4
Iron	195	231	80-120	17	0-20	3
Manganese	102	100	80-120	1	0-20	
Tin	107	106	80-120	1	0-20	
Boron	4X	4X	80-120	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received 05/19/11
Work Order No: 11-05-1226
Preparation: N/A
Method: EPA 200.8

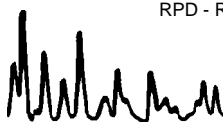
Project: El Segundo 24-Hour Study

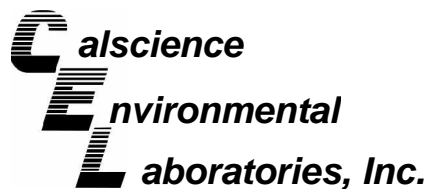
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
Intake Composite Duplicate	Aqueous	ICP/MS 04	05/23/11	05/23/11	110523S02

Analysis Comment: * - Analyzed 5/24/2011 1:59:32 PM

<u>Parameter</u>	<u>PDS %REC</u>	<u>PDSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	99	102	75-125	2	0-20	
Arsenic	95	97	75-125	2	0-20	
Barium	105	104	75-125	1	0-20	
Beryllium	103	105	75-125	2	0-20	
Cadmium	95	96	75-125	1	0-20	
Chromium	95	94	75-125	0	0-20	
Cobalt	90	91	75-125	1	0-20	
Copper	94	95	75-125	1	0-20	
Lead	98	100	75-125	1	0-20	
Molybdenum	111	115	75-125	3	0-20	
Nickel	95	95	75-125	0	0-20	
Selenium	92	92	75-125	0	0-20	
Silver	99	100	75-125	1	0-20	
Thallium	99	99	75-125	0	0-20	
Zinc	106	118	75-125	11	0-20	
Aluminum	100	101	75-125	1	0-20	
Iron	100	101	75-125	1	0-20	
Manganese	87	88	75-125	1	0-20	
Tin	99	101	75-125	3	0-20	
Boron	56	61	75-125	1	0-20	5

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

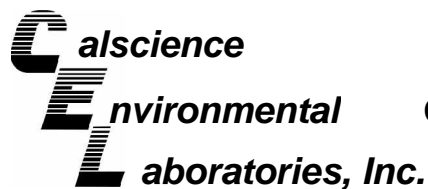
Date Received: 05/19/11
Work Order No: 11-05-1226
Preparation: EPA 245.1 Total
Method: EPA 245.1

Project El Segundo 24-Hour Study

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Outfall Composite duplicate	Aqueous	Mercury	05/20/11	05/20/11	110520S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	99	98	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

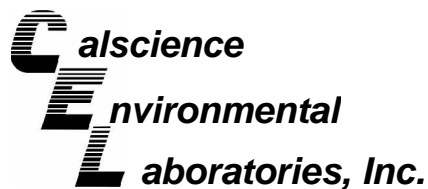
Date Received: N/A
Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Matrix: Aqueous or Solid

<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>
Fluoride	EPA 300.0	Intake Composite	05/19/11	N/A	104	102	80-120	1	0-20	
Bromide	EPA 300.0	Intake Composite	05/19/11	N/A	102	101	80-120	1	0-20	
Total Phosphate	SM 4500 P B/E	Outfall Composite	05/23/11	5/23/11	113	116	70-130	3	0-25	
Carbon, Total Organic	SM 5310 D	11-05-1263-1	05/19/11	N/A	95	95	75-125	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



Southern California Edison Company
 Edison Chemical Services
 7301 Fenwick Lane, 2nd Floor
 Westminster, CA 92683-5202

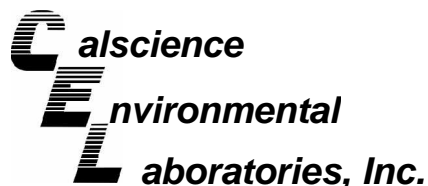
Date Received: N/A
 Work Order No: 11-05-1226

Project: El Segundo 24-Hour Study

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Color	SM 2120 B	Outfall Composite	05/19/11	5.0	5.0	0	0-25	
Total Kjeldahl Nitrogen	SM 4500 N Org B	11-05-1196-5	05/23/11	43	43	1	0-25	
Sulfide, Total	SM 4500 S2 - D	11-05-0908-1	05/19/11	ND	ND	NA	0-25	
Sulfide, Total	SM 4500 S2 - D	Outfall	05/19/11	ND	ND	NA	0-25	
Biochemical Oxygen Demand	SM 5210 B	11-05-1196-1	05/24/11	4.6	4.5	2	0-25	
Oil and Grease	SM 5520 B	Intake	05/20/11	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Southern California Edison Company
Edison Chemical Services
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683-5202

Date Received: N/A
Work Order No: 11-05-1226
Preparation: N/A
Method: EPA 200.8

Project: El Segundo 24-Hour Study

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-008-1,650	Aqueous	ICP/MS 04	05/23/11	05/23/11	110523L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	107	101	85-115	80-120	6	0-20	
Arsenic	97	99	85-115	80-120	1	0-20	
Barium	103	97	85-115	80-120	6	0-20	
Beryllium	112	115	85-115	80-120	3	0-20	
Cadmium	113	104	85-115	80-120	9	0-20	
Chromium	88	98	85-115	80-120	11	0-20	
Cobalt	98	98	85-115	80-120	0	0-20	
Copper	104	102	85-115	80-120	1	0-20	
Lead	97	98	85-115	80-120	1	0-20	
Molybdenum	104	105	85-115	80-120	1	0-20	
Nickel	89	100	85-115	80-120	12	0-20	
Selenium	101	97	85-115	80-120	4	0-20	
Silver	93	91	85-115	80-120	3	0-20	
Thallium	95	98	85-115	80-120	3	0-20	
Zinc	104	101	85-115	80-120	3	0-20	
Aluminum	96	113	85-115	80-120	16	0-20	
Iron	97	97	85-115	80-120	0	0-20	
Manganese	97	97	85-115	80-120	0	0-20	
Tin	102	99	85-115	80-120	3	0-20	
Boron	100	106	85-115	80-120	6	0-20	

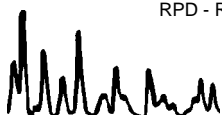
Total number of LCS compounds : 20

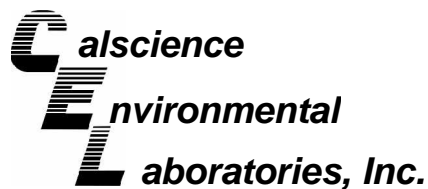
Total number of ME compounds : 0

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



Southern California Edison Company
 Edison Chemical Services
 7301 Fenwick Lane, 2nd Floor
 Westminster, CA 92683-5202

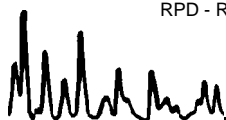
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 Work Order No: 11-05-1226
 Preparation: EPA 245.1 Total
 Method: EPA 245.1

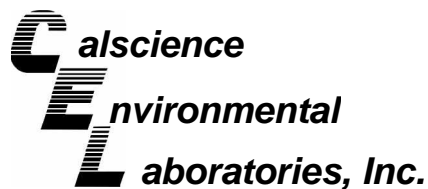
Project: El Segundo 24-Hour Study

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,360	Aqueous	Mercury	05/20/11	05/20/11	110520L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	96	96	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Southern California Edison Company
 Edison Chemical Services
 7301 Fenwick Lane, 2nd Floor
 Westminster, CA 92683-5202

Date Received:
 Work Order No:

N/A
 11-05-1226

Project: El Segundo 24-Hour Study

Matrix: Aqueous or Solid

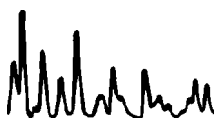
<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Fluoride	EPA 300.0	099-12-906-1,802	N/A	05/19/11	100	104	90-110	4	0-15	
Bromide	EPA 300.0	099-12-906-1,802	N/A	05/19/11	103	103	90-110	0	0-15	
Total Phosphate	SM 4500 P B/E	099-14-276-32	05/23/11	05/23/11	109	107	80-120	2	0-20	
Cyanide, Total	SM 4500-CN E	099-05-061-3,090	05/19/11	05/19/11	84	82	80-120	1	0-20	
Cyanide, Total	SM 4500-CN E	099-05-061-3,091	05/21/11	05/21/11	82	83	80-120	1	0-20	
Phenolics, Total	EPA 420.1	099-05-085-2,382	05/19/11	05/19/11	97	95	80-120	2	0-20	
MBAS	SM 5540C	099-05-093-2,223	05/19/11	05/19/11	98	98	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	099-05-097-4,291	N/A	05/19/11	98	97	80-120	1	0-20	
Ammonia (as N)	SM 4500-NH3 B	099-12-814-1,016	05/23/11	05/23/11	101	101	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 11-05-1226

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. 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.
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.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



(1226) 1/13



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SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Edison ESI P.O. Number: ESI6363B

Send analytical report to: Shawn Simmons (shawn.simmons@sce.com) Tel: (714) 895-0525

Send copies of invoice to: Shawn Simmons (shawn.simmons@sce.com) and Lisa Dela Pina (lisa.delapina@sce.com)

In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
1 Intake Composite	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, and Zn in seawater by Methods 200.8/245.1
2 Intake Composite duplicate	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, and Zn in seawater by Methods 200.8/245.1
3 Outfall Composite	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, and Zn in seawater by Methods 200.8/245.1
4 Outfall Composite duplicate	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, and Zn in seawater by Methods 200.8/245.1

Special Instructions:

Show J-Flags for Results.

RUSH 4-DAY TURN AROUND

For those metals to be analyzed by Method 200.8, please run at a 5:1 sample dilution. Use oxygen reaction gas for arsenic (for mass 91). Use ammonia for chromium, copper, nickel, selenium, and zinc.

Sampler:

AZNAR/THOMAS	Date: 5/19/11	Signature: <i>[Signature]</i>	Date: 5/19/11
Print Name	Time: 750	Signature	Time: 750

Chain of Custody:

Larry Thomas	Date: 5/19/11	Signature: <i>[Signature]</i>	Date: 05/19/11
Relinquished By	Time: 1039	Received By	Time: 1039
	Date:		Date:
Relinquished By	Time	Received By	Time:

1226 2/13



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In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
1 Intake Composite	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Al, Ba, B, Co, Fe, Mo, Mn, Sn, and Ti in seawater by Method 200.8
2 Intake Composite duplicate	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Al, Ba, B, Co, Fe, Mo, Mn, Sn, and Ti in seawater by Method 200.8
3 Outfall Composite	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Al, Ba, B, Co, Fe, Mo, Mn, Sn, and Ti in seawater by Method 200.8
4 Outfall Composite duplicate	5/17-5/18	12:00-12:00	250-mL plastic w/ HNO ₃ for Al, Ba, B, Co, Fe, Mo, Mn, Sn, and Ti in seawater by Method 200.8

Special Instructions:
 Show J-Flags for Results. **RUSH 4-DAY TURN AROUND**
 Please run at a 5:1 sample dilution. When appropriate, use oxygen and ammonia DRC gases.

Sampler:

<u>AZNAR THOMAS</u> Print Name	Date: <u>5/19/11</u> Time: <u>750</u>	<u>[Signature]</u> Signature	Date: <u>5/19/11</u> Time: <u>750</u>
-----------------------------------	--	---------------------------------	--

Chain of Custody:

<u>Larry Thomas</u> Relinquished By	Date: <u>5/17/11</u> Time: <u>1039</u>	<u>[Signature]</u> Received By	Date: <u>05/19/11</u> Time: <u>1039</u>
Relinquished By	Date:	Received By	Date:
	Time		Time:

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In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
1 Intake Composite	5/17-5/18	12:00-12:00	1-L plastic for BOD by SM SM 5210 B
3 Outfall Composite	5/17-5/18	12:20-12:20	1-L plastic for BOD by SM SM 5210 B
4 Outfall Composite Dup	5/17-5/18	12:20-12:20	1-L plastic for BOD by SM SM 5210 B
1 Intake composite	5/17-5/18	12:00-12:00	250-mL glass w/ H ₂ SO ₄ for TOC by SM 5310D
3 Outfall Composite	5/17-5/18	12:20-12:20	250-mL glass w/ H ₂ SO ₄ for TOC by SM 5310D
4 Outfall Composite Dup	5/17-5/18	12:20-12:20	250-mL glass w/ H ₂ SO ₄ for TOC by SM 5310D
1 Intake composite	5/17-5/18	12:00-12:00	1-L glass w/ H ₂ SO ₄ for NH ₃ -N by 4500-NH ₃ B/C
3 Outfall Composite	5/17-5/18	12:20-12:20	1-L glass w/ H ₂ SO ₄ for NH ₃ -N by 4500-NH ₃ B/C

Special Instructions:
 Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:
 AZNAR/THOMAS Date: 5/19/11 Time: 0840
 Signature: [Signature] Date: 5/19/11 Time: 0940

Chain of Custody:
 Relinquished By: Larry Thomas Date: 5/19/11 Time: 1039
 Received By: [Signature] Date: 05/19/11 Time: 1039

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In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
1	5/17-5/18	12:00-12:00	500-mL plastic for MBAS by SM 5540 C
3	5/17-5/18	12:20-12:20	500-mL plastic for MBAS by SM 5540 C
1	5/17-5/18	12:00-12:00	250-mL gl. w/ H ₂ SO ₄ for Tot. PO ₄ by 4500 P B/E
3	5/17-5/18	12:20-12:20	250-mL gl. w/ H ₂ SO ₄ for Tot. PO ₄ by 4500 P B/E
1	5/17-5/18	12:00-12:00	500-mL plastic for Fluoride, Bromide, and Color
3	5/17-5/18	12:20-12:20	500-mL plastic for Fluoride, Bromide, and Color
1	5/17-5/18	12:00-12:00	1-L glass w/ H ₂ SO ₄ for TKN by SM 4500-N _{org} B
3	5/17-5/18	12:20-12:20	1-L glass w/ H ₂ SO ₄ for TKN by SM 4500-N _{org} B

Special Instructions:

Show J-Flags for Results
RUSH 4-DAY TURN AROUND

Sampler:

AZNAE/THOMAS	Date: 5/19/11	<i>[Signature]</i>	Date: 5/19/11
Print Name	Time: 0940	Signature	Time: 0930

Chain of Custody:

Larry Thomas	Date: 5/19/11	<i>[Signature]</i> ca	Date: 05/19/11
Relinquished By	Time: 1039	Received By	Time: 1039

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Send copies of invoice to: Shawn Simmons (shawn.simmons@sce.com) and Lisa Dela Pina (lisa.delapina@sce.com)

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Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes	
1	Intake Composite	05/17-05/18	12:00-12:00	1-L plastic for Gross Alpha by Method 900
	Intake Composite	05/17-05/18	12:00-12:00	1-L plastic for Gross Beta by Method 900
	Intake Composite	05/17-05/18	12:00-12:00	1-L plastic w/ HNO ₃ for Radium 226 by 903.0
	Intake Composite	05/17-05/18	12:00-12:00	1-L plastic w/ HNO ₃ for Total Radium 226 by 903.1
3	Outfall Composite	05/17-05/18	12:20-12:20	1-L plastic for Gross Alpha by Method 900
	Outfall Composite	05/17-05/18	12:20-12:20	1-L plastic for Gross Beta by Method 900
	Outfall Composite	05/17-05/18	12:20-12:20	1-L plastic w/ HNO ₃ for Radium 226 by 903.0
	Outfall Composite	05/17-05/18	12:20-12:20	1-L plastic w/ HNO ₃ for Total Radium 226 by 903.1

Special Instructions:
Show J-Flags for Results
RUSH 4-DAY TURN AROUND

Sampler:

Larry Thomas/Lisa Dela Pina	Date: 5/19/11	<i>Shawn Simmons</i>	Date: 5/19/11
Print Name	Time: 1500	Signature	Time: 0925

Chain of Custody:

Larry Thomas	Date: 5/19/11	<i>Shawn Simmons</i>	Date: 05/19/11
Relinquished By	Time: 1039	Received By	Time: 1039
	Date:		Date:
Relinquished By	Time	Received By	Time:

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In all correspondence refer to project: El Segundo 24-Hour Study
Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
5 Intake	5/17/11	12:00	Total Sulfide by SM4500 S ⁻² D
6 Intake	5/17/11	15:00	Total Sulfide by SM4500 S ⁻² D
7 Intake	5/17/11	18:00	Total Sulfide by SM4500 S ⁻² D
8 Intake	5/17/11	21:00	Total Sulfide by SM4500 S ⁻² D
9 Intake	5/18/11	00:00	Total Sulfide by SM4500 S ⁻² D
10 Intake	5/18/11	03:00	Total Sulfide by SM4500 S ⁻² D
11 Intake	5/18/11	06:00	Total Sulfide by SM4500 S ⁻² D
12 Intake	5/18/11	09:00	Total Sulfide by SM4500 S ⁻² D
13 Intake	5/18/11	12:00	Total Sulfide by SM4500 S ⁻² D
1 Intake Composite	5/17-5/18	12:00-12:00	Total Sulfide by SM4500 S ⁻² D

Special Instructions:
Show J-Flags for Results
RUSH 4-DAY TURN AROUND

Sampler:

<i>Azmar Thomas</i> Print Name	Date: <i>5/19/11</i> Time: <i>0820</i>	<i>[Signature]</i> Signature	Date: <i>5/19/11</i> Time: <i>0820</i>
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Chain of Custody:

<i>Larry Thomas</i> Relinquished By	Date: <i>5/19/11</i> Time: <i>1039</i>	<i>[Signature]</i> Received By	Date: <i>05/19/11</i> Time: <i>1038 1039</i>
Relinquished By	Date:	Received By	Date: <i>5/19/11</i>

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In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
5 Intake	5/17/11	12:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
6 Intake	5/17/11	15:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
7 Intake	5/17/11	18:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
8 Intake	5/17/11	21:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
9 Intake	5/18/11	00:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
10 Intake	5/18/11	03:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
11 Intake	5/18/11	06:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
12 Intake	5/18/11	09:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
13 Intake	5/18/11	12:00	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1

Special Instructions:
Show J-Flags for Results RUSH 4-DAY TURN AROUND

Sampler:

<i>AZAR THOMAS</i> Print Name	Date: <i>5/10/11</i> Time: <i>0940</i>	<i>[Signature]</i> Signature	Date: <i>5/10/11</i> Time: <i>0940</i>
----------------------------------	---	---------------------------------	---

Chain of Custody:

<i>Larry Thomas</i> Relinquished By	Date: <i>5/19/11</i> Time: <i>1039</i>	<i>[Signature]</i> <i>CEL</i> Received By	Date: <i>05/19/11</i> Time: <i>1039</i>
Relinquished By	Date:	Received By	Date:
Relinquished By	Time	Received By	Time:

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Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
5 Intake	5/17/11	12:00	Total Cyanide by SM4500 CN ⁻ C/E
6 Intake	5/17/11	15:00	Total Cyanide by SM4500 CN ⁻ C/E
7 Intake	5/17/11	18:00	Total Cyanide by SM4500 CN ⁻ C/E
8 Intake	5/17/11	21:00	Total Cyanide by SM4500 CN ⁻ C/E
9 Intake	5/18/11	00:00	Total Cyanide by SM4500 CN ⁻ C/E
10 Intake	5/18/11	03:00	Total Cyanide by SM4500 CN ⁻ C/E
11 Intake	5/18/11	06:00	Total Cyanide by SM4500 CN ⁻ C/E
12 Intake	5/18/11	09:00	Total Cyanide by SM4500 CN ⁻ C/E
13 Intake	5/18/11	12:00	Total Cyanide by SM4500 CN ⁻ C/E

Special Instructions:
 Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:
 AZNAP/THOMAS
 Date: 5/19/11
 Time: 0925
 Signature: [Handwritten Signature]
 Date: 5/19/11
 Time: 0925

Chain of Custody:
 Relinquished By: Larry Thomas
 Date: 5/19/11
 Time: 1038
 Received By: [Handwritten Signature] CEA
 Date: 05/19/11
 Time: 1038 1039
 Relinquished By: [Blank]
 Date: 1039 L.T.
 Received By: [Blank]
 Date: [Blank]
 Time: [Blank]

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Sample ID	Date Collected	Time Collected	Description/Analytes
5 Intake	5/17/11	12:00	Oil and Grease by SM5520B
6 Intake	5/17/11	15:00	Oil and Grease by SM5520B
7 Intake	5/17/11	18:00	Oil and Grease by SM5520B
7 Intake Spike	5/17/11	18:00	Oil and Grease by SM5520B (for CEL to spike)
8 Intake	5/17/11	21:00	Oil and Grease by SM5520B
9 Intake	5/18/11	00:00	Oil and Grease by SM5520B
10 Intake	5/18/11	03:00	Oil and Grease by SM5520B
11 Intake	5/18/11	06:00	Oil and Grease by SM5520B
12 Intake	5/18/11	09:00	Oil and Grease by SM5520B
13 Intake	5/18/11	12:00	Oil and Grease by SM5520B

Special Instructions:
 Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:

<i>Azuar Thomas</i> Print Name	Date: 5/15/11 Time: 0925	<i>[Signature]</i> Signature	Date: 5/15/11 Time: 0925
-----------------------------------	-----------------------------	---------------------------------	-----------------------------

Chain of Custody:

<i>Larry Thomas</i> Relinquished By	Date: 5/19/11 Time: 1039	<i>[Signature]</i> Received By	Date: 05/19/11 Time: 1039 1039 @ 5/19/11
Relinquished By	Date:	Received By	Date:
Relinquished By	Time	Received By	Time:

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Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
14	5/17/11	12:20	Total Sulfide by SM4500 S ⁻² D
15	5/17/11	15:20	Total Sulfide by SM4500 S ⁻² D
16	5/17/11	18:20	Total Sulfide by SM4500 S ⁻² D
17	5/17/11	21:20	Total Sulfide by SM4500 S ⁻² D
18	5/18/11	00:20	Total Sulfide by SM4500 S ⁻² D
19	5/18/11	03:20	Total Sulfide by SM4500 S ⁻² D
20	5/18/11	06:20	Total Sulfide by SM4500 S ⁻² D
21	5/18/11	09:20	Total Sulfide by SM4500 S ⁻² D
22	5/18/11	12:20	Total Sulfide by SM4500 S ⁻² D
3	5/17-5/18	12:20-12:20	Total Sulfide by SM4500 S ⁻² D

Special Instructions:

Show J-Flags for Results
RUSH 4-DAY TURN AROUND

Sampler:

<u>AZNAR THOMAS</u> Print Name	Date: <u>5/19/11</u> Time: <u>8:20</u>	<u>[Signature]</u> Signature	Date: <u>5/19/11</u> Time: <u>8:20</u>
-----------------------------------	---	---------------------------------	---

Chain of Custody:

<u>Larry Thomas</u> Relinquished By	Date: <u>5/19/11</u> Time: <u>10:39</u>	<u>[Signature]</u> Received By	Date: <u>5/19/11</u> Time: <u>10:39</u>
Relinquished By	Date:	Received By	Date:
Relinquished By	Time	Received By	Time:

1226 11/13



POWER PRODUCTION CHEMICAL
 7301 Fenwick Lane, 2nd floor, Westminster, CA 92683
 Phone: (714) 895-0525; Fax: (714) 895-0515

SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way
 Garden Grove, CA 92841-1427

Edison ESI P.O. Number: ESI6363B
 Send analytical report to: Shawn Simmons (shawn.simmons@sce.com) Tel: (714) 895-0525
 Send copies of invoice to: Shawn Simmons (shawn.simmons@sce.com) and Lisa Dela Pina (lisa.delapina@sce.com)

In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
14	5/17/11	12:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
15	5/17/11	15:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
16	5/17/11	18:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
17	5/17/11	21:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
18	5/18/11	00:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
19	5/18/11	03:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
20	5/18/11	06:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
21	5/18/11	09:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1
22	5/18/11	12:20	500-mL H ₂ SO ₄ by Total Phenolics by EPA 420.1

Special Instructions:
 Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:
 ARNAR THOMAS Date: 5/19/11 Time: 0940 Signature: [Signature] Date: 5/19/11 Time: 0940

Chain of Custody:

Relinquished By: <u>Larry Thomas</u>	Date: <u>5/19/11</u>	Received By: <u>[Signature]</u>	Date: <u>05/19/11</u>
	Time: <u>1039</u>		Time: <u>1039</u>
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

1226 12/13



POWER PRODUCTION CHEMICAL
 7301 Fenwick Lane, 2nd floor, Westminster, CA 92683
 Phone: (714) 895-0525; Fax: (714) 895-0515

SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way
 Garden Grove, CA 92841-1427

Edison ESI P.O. Number: ESI6363B
Send analytical report to: Shawn Simmons (shawn.simmons@sce.com) **Tel:** (714) 895-0525
Send copies of invoice to: Shawn Simmons (shawn.simmons@sce.com) and Lisa Dela Pina (lisa.delapina@sce.com)

In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
14	5/17/11	12:20	Total Cyanide by SM4500 CN C/E
15	5/17/11	15:20	Total Cyanide by SM4500 CN C/E
16	5/17/11	18:20	Total Cyanide by SM4500 CN C/E
23	5/17/11	18:20	Total Cyanide by SM4500 CN C/E
17	5/18/11	21:20	Total Cyanide by SM4500 CN C/E
18	5/18/11	00:20	Total Cyanide by SM4500 CN C/E
19	5/18/11	03:20	Total Cyanide by SM4500 CN C/E
20	5/18/11	06:20	Total Cyanide by SM4500 CN C/E
21	5/18/11	09:20	Total Cyanide by SM4500 CN C/E
22	5/18/11	12:20	Total Cyanide by SM4500 CN C/E

Special Instructions:
 Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:
 ALVARO THOMAS Date: 5/19/11 Time: 0925 Signature: [Signature] Date: 5/19/11 Time: 0925

Chain of Custody:

Relinquished By: Larry Thomas	Date: 5/19/11	Received By: [Signature]	Date: 05/19/11
	Time: 1039		Time: 1039
Relinquished By:	Date:	Received By:	Date:
	Time:		Time:

1226 ^{13/13}



EDISON ESISM

A SOUTHERN CALIFORNIA EDISON® Company

POWER PRODUCTION CHEMICAL
 7301 Fenwick Lane, 2nd floor, Westminster, CA 92683
 Phone: (714) 895-0525; Fax: (714) 895-0515

SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Environmental Laboratories, Inc.
 7440 Lincoln Way
 Garden Grove, CA 92841-1427

Edison ESI P.O. Number: ESI6363B
Send analytical report to: Shawn Simmons (shawn.simmons@sce.com) Tel: (714) 895-0525
Send copies of invoice to: Shawn Simmons (shawn.simmons@sce.com) and Lisa Dela Pina (lisa.delapina@sce.com)

In all correspondence refer to project: El Segundo 24-Hour Study

Sample(s) are submitted for treatment/disposition as described below.

Sample ID	Date Collected	Time Collected	Description/Analytes
14	5/17/11	12:20	Oil and Grease by SM5520B
15	5/17/11	15:20	Oil and Grease by SM5520B
16	5/17/11	18:20	Oil and Grease by SM5520B
23	5/17/11	18:20	Oil and Grease by SM5520B
17	5/17/11	21:20	Oil and Grease by SM5520B
18	5/18/11	00:20	Oil and Grease by SM5520B
19	5/18/11	03:20	Oil and Grease by SM5520B
20	5/18/11	06:20	Oil and Grease by SM5520B
21	5/18/11	09:20	Oil and Grease by SM5520B
22	5/18/11	12:20	Oil and Grease by SM5520B

Special Instructions:

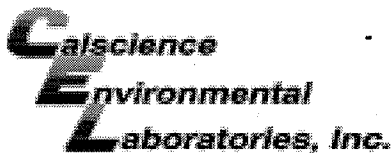
Show J-Flags for Results
 RUSH 4-DAY TURN AROUND

Sampler:

<i>Aznar Thomas</i>	Date: 5/19/11	<i>[Signature]</i>	Date: 5/19/11
Print Name	Time: 0725	Signature	Time: 0725

Chain of Custody:

<i>Larry Thomas</i>	Date: 5/19/11	<i>[Signature]</i>	Date: 05/19/11
Relinquished By	Time: 1039	Received By	Time: 1039 1039 <i>e</i>
	Date:		Date:
Relinquished By	Time	Received By	Time



WORK ORDER #: 11-05-1226

SAMPLE RECEIPT FORM

Cooler 1 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.1 °C + 0.5°C (CF) = 3.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s ^② ^①

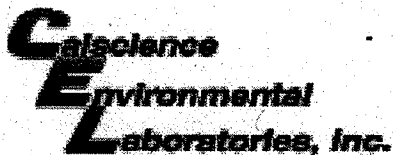
500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na} ^② ^①

250PB 250PB_n 125PB 125PB_z 100PJ 100PJ_{na2} 1PB_n _____ _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: _____ Labeled/Checked by: NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: NC



WORK ORDER #: 11-05-1226

SAMPLE RECEIPT FORM

Cooler 2 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.5 °C + 0.5°C (CF) = 3.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

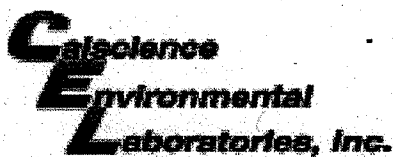
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs⁽²⁾ 500AGB 500AGJ 500AGJs⁽²⁾ 250AGB 250CGB 250CGBs⁽²⁾ 1PB 500PB 500PBna⁽²⁾ 250PB 250PBn⁽²⁾ 125PB 125PBz_{na} 100PJ 100PJna₂ 1PB_n _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: _____ Labeled/Checked by: NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: NC



WORK ORDER #: 11-05-1220

SAMPLE RECEIPT FORM

Cooler 3 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.3 °C + 0.5°C (CF) = 3.8 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

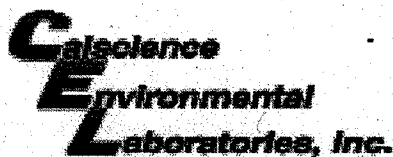
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs⁽²⁾ 500AGB 500AGJ 500AGJs⁽²⁾ 250AGB 250CGB 250CGBs⁽²⁾ 1PB 500PB 500PBna⁽²⁾ 250PB 250PBn⁽²⁾ 125PB 125PBz₂na⁽²⁾ 100PJ 100PJna₂ 1PB_n⁽²⁾ _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: _____ Labeled/Checked by: NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH f: Field-filtered Scanned by: NC



WORK ORDER #: 11-05-1226

SAMPLE RECEIPT FORM

Cooler 4 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 4.1 °C + 0.5°C (CF) = 4.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

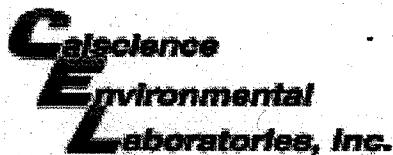
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs⁽²⁾ 500AGB⁽²⁾ 500AGJ 500AGJs 250AGB 250CGB 250CGBs⁽²⁾ 1PB⁽²⁾ 500PB⁽²⁾ 500PBna⁽²⁾ 250PB 250PBn⁽²⁾ 125PB 125PBz_{na} 100PJ 100PJna₂ 1PB_n⁽²⁾ _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: _____ Labeled/Checked by: NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: NC



WORK ORDER #: 11-05-1220

SAMPLE RECEIPT FORM

Cooler 5 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.7 °C + 0.5°C (CF) = 4.2 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs ^② ^①

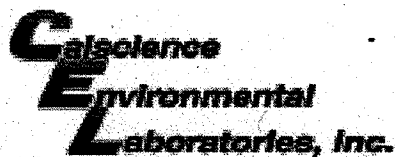
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB ^② 500PB 500PBna

250PB ^③ 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ ^④ 1PB_n _____ _____

Air: Tedlar® Summa® **Other:** _____ Trip Blank Lot#: _____ Labeled/Checked by: NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: NC



WORK ORDER #: 11-05-1220

SAMPLE RECEIPT FORM

Cooler 6 of 6

CLIENT: SCE

DATE: 05/19/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 5.1 °C + 0.5°C (CF) = 5.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: NC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: NC

Sample _____ No (Not Intact) Not Present Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<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"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(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"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs⁽²⁾ 500AGB 500AGJ 500AGJs⁽²⁾ 250AGB 250CGB 250CGBs⁽²⁾ 1PB 500PB 500PBna⁽²⁾ 250PB 250PBn⁽²⁾ 125PB 125PBz_{na} 100PJ 100PJna₂ 1PB_n⁽²⁾ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** NC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** P

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** NC