



**BABCOCK Laboratories, Inc.**  
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**Babcock Laboratories, Inc. - Riverside**  
**6100 Quail Valley Court**  
**Riverside, CA 92507-0704**  
**(951) 653-3351**

19 May 2025

Emily Duncan  
State Water Resources Control Board - Region 4  
320 West Fourth Street, Suite 200  
Los Angeles, CA 90013

*RE: RWB4\_PostFire\_2025*

Dear Emily Duncan,

The following pages contain the analytical results for the sample(s) received for your project. The second page of this report lists the individual sample descriptions with the corresponding laboratory number(s). We have also provided a copy of the Chain of Custody document (if received with your sample(s)). Please note that any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our Client Service Department.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jmachuca'.

Julieta Melissa Machuca For Alexandria L. Guerra  
Special Programs Coordinator



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**State Water Resources Control Board - Region 4**  
**320 West Fourth Street, Suite 200**  
**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Lab ID	Matrix	Station Code	Location Code	Sampled	Received
Zuma Beach	C5E0054-01	Sludge	404ZUMAB	Bank	04/29/25 10:20	05/01/25 11:40
Leo Carrillo State Beach	C5E0054-02	Sludge	404LEOCAR	Bank	04/29/25 09:40	05/01/25 11:40
Zuma Beach	C5E0054-03	Sludge	404ZUMAB	Bank	04/29/25 10:20	05/01/25 11:40
Malibu Surfrider	C5E0054-04	Sludge	404MSBBE	Bank	04/29/25 11:00	05/01/25 11:40
Topanga Lagoon	C5E0054-05	Sludge	404TOPLA	Bank	04/29/25 11:50	05/01/25 11:40
Topanga Beach	C5E0054-06	Sludge	404TOPBE	Bank	04/29/25 12:00	05/01/25 11:40
Will Rogers State Beach	C5E0054-07	Sludge	404WILLR	Bank	04/29/25 12:30	05/01/25 11:40
SMC Rustic Creek	C5E0054-08	Sludge	404SMCRC	Bank	04/29/25 13:00	05/01/25 11:40
SMB Montana Ave	C5E0054-09	Sludge	404SMBMA	Bank	04/29/25 13:30	05/01/25 11:40
SMB North of Pier	C5E0054-10	Sludge	404SMBNP	Bank	04/29/25 14:00	05/01/25 11:40
SMB Pico Kenter	C5E0054-11	Sludge	404SMBPK	Bank	04/29/25 14:20	05/01/25 11:40
Venice B Rose Ave	C5E0054-12	Sludge	404VBRASD	Bank	04/29/25 15:30	05/01/25 11:40
Venice Beach	C5E0054-13	Sludge	404VENICE	Bank	04/29/25 15:00	05/01/25 11:40
Mother's Beach	C5E0054-14	Sludge	404MOTHB	Bank	04/30/25 09:30	05/01/25 11:40
Dockweiler Beach	C5E0054-15	Sludge	404DOCKB	Bank	04/30/25 08:30	05/01/25 11:40
Redondo Break	C5E0054-16	Sludge	404REDOB	Bank	04/30/25 07:50	05/01/25 11:40
RAT Beach	C5E0054-17	Sludge	404RATB	Bank	04/30/25 07:00	05/01/25 11:40

**Included in this Data Package please find an amended report for the work order referenced below.**

**Work Order: C5E0054**

**Reason for Amendment: Metals added per client request.**

**This report supersedes the report issued on 05/14/2025.**

Babcock Laboratories, Inc. - Riverside

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Julieta Melissa Machuca For Alexandria L. Guerra, Special Programs Coordinator



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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**Zuma Beach**  
**C5E0054-01 (Sludge, Sampled: 04/29/25 10:20)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Babcock Laboratories, Inc. - Riverside**

**Solids**

<b>Total Solids</b>	<b>96</b>	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
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**Metals and Metalloids; EPA SW846 Series**

Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
<b>Aluminum</b>	<b>2000</b>	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	NMint
<b>Arsenic</b>	<b>2.8</b>	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
<b>Barium</b>	<b>18</b>	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.2</b>	0.50	1.0	"	"	"	"	"	"	
<b>Total Chromium</b>	<b>20</b>	0.58	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>3.1</b>	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
<b>Manganese</b>	<b>140</b>	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	NMint
<b>Molybdenum</b>	<b>1.6</b>	0.61	5.0	"	"	"	"	"	"	J
<b>Nickel</b>	<b>9.1</b>	0.58	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>5.6</b>	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>29</b>	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside

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Project: RWB4\_PostFire\_2025  
 Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
 Project Manager: Emily Duncan  
 Reported:  
 05/19/25 15:56

**Leo Carrillo State Beach**  
**C5E0054-02 (Sludge, Sampled: 04/29/25 09:40)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Babcock Laboratories, Inc. - Riverside</b>										
<b>Solids</b>										
<b>Total Solids</b>	<b>93</b>	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
<b>Metals and Metalloids; EPA SW846 Series</b>										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
<b>Aluminum</b>	<b>2600</b>	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
<b>Arsenic</b>	<b>4.2</b>	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
<b>Barium</b>	<b>16</b>	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.7</b>	0.50	1.0	"	"	"	"	"	"	
<b>Total Chromium</b>	<b>13</b>	0.58	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>4.6</b>	0.51	1.0	"	"	"	"	"	"	
<b>Mercury</b>	<b>0.021</b>	0.018	0.054	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	J
<b>Manganese</b>	<b>120</b>	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
<b>Molybdenum</b>	<b>1.9</b>	0.61	5.0	"	"	"	"	"	"	J
<b>Nickel</b>	<b>7.6</b>	0.58	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>4.6</b>	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>23</b>	2.3	10	"	"	"	"	"	"	

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Zuma Beach**  
**C5E0054-03 (Sludge, Sampled: 04/29/25 10:20)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	96	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2000	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.8	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	36	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	3.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	26	0.58	1.0	"	"	"	"	"	"	
Copper	3.3	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	150	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	0.98	0.61	5.0	"	"	"	"	"	"	J
Nickel	8.7	0.58	1.0	"	"	"	"	"	"	
Lead	6.6	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	23	2.3	10	"	"	"	"	"	"	

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**Malibu Surfrider**  
**C5E0054-04 (Sludge, Sampled: 04/29/25 11:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	71	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2200	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.0	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	20	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.4	0.50	1.0	"	"	"	"	"	"	
Total Chromium	5.0	0.58	1.0	"	"	"	"	"	"	
Copper	2.6	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.023	0.070	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	68	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	4.6	0.58	1.0	"	"	"	"	"	"	
Lead	1.7	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	12	2.3	10	"	"	"	"	"	"	

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Topanga Lagoon**  
**C5E0054-05 (Sludge, Sampled: 04/29/25 11:50)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	75	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.5	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	13	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	5.8	0.58	1.0	"	"	"	"	"	"	
Copper	4.1	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.022	0.067	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	68	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.0	0.58	1.0	"	"	"	"	"	"	
Lead	2.6	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	15	2.3	10	"	"	"	"	"	"	

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Topanga Beach**  
**C5E0054-06 (Sludge, Sampled: 04/29/25 12:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	85	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.3	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	11	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	6.9	0.58	1.0	"	"	"	"	"	"	
Copper	17	0.51	1.0	"	"	"	"	"	"	
Mercury	0.064	0.020	0.059	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	69	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.4	0.58	1.0	"	"	"	"	"	"	
Lead	2.5	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	14	2.3	10	"	"	"	"	"	"	

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Will Rogers State Beach**  
**C5E0054-07 (Sludge, Sampled: 04/29/25 12:30)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	88	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2000	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.1	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	25	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.9	0.50	1.0	"	"	"	"	"	"	
Total Chromium	7.9	0.58	1.0	"	"	"	"	"	"	
Copper	2.4	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.019	0.057	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	86	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.7	0.58	1.0	"	"	"	"	"	"	
Lead	3.0	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	14	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside

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State Water Resources Control Board - Region 4  
320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**SMC Rustic Creek**  
**C5E0054-08 (Sludge, Sampled: 04/29/25 13:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	61	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	12000	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	12	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	140	0.49	1.0	"	"	"	"	"	"	
Beryllium	0.76	0.52	1.0	"	"	"	"	"	"	J
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	13	0.50	1.0	"	"	"	"	"	"	
Total Chromium	30	0.58	1.0	"	"	"	"	"	"	
Copper	34	0.51	1.0	"	"	"	"	"	"	
Mercury	0.076	0.028	0.083	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	J
Manganese	590	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	1.1	0.61	5.0	"	"	"	"	"	"	J
Nickel	31	0.58	1.0	"	"	"	"	"	"	
Lead	25	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	110	2.3	10	"	"	"	"	"	"	

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320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**SMB Montana Ave**  
**C5E0054-09 (Sludge, Sampled: 04/29/25 13:30)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	76	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	3200	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.2	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	11	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	7.5	0.58	1.0	"	"	"	"	"	"	
Copper	4.9	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.022	0.066	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	81	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	7.6	0.58	1.0	"	"	"	"	"	"	
Lead	2.7	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	21	2.3	10	"	"	"	"	"	"	

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**320 West Fourth Street, Suite 200**  
**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
 Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
 Project Manager: Emily Duncan

**Reported:**  
 05/19/25 15:56

**SMB North of Pier**  
**C5E0054-10 (Sludge, Sampled: 04/29/25 14:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Babcock Laboratories, Inc. - Riverside</b>										
<b>Solids</b>										
<b>Total Solids</b>	<b>81</b>	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
<b>Metals and Metalloids; EPA SW846 Series</b>										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
<b>Aluminum</b>	<b>2600</b>	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
<b>Arsenic</b>	<b>3.6</b>	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
<b>Barium</b>	<b>96</b>	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.3</b>	0.50	1.0	"	"	"	"	"	"	
<b>Total Chromium</b>	<b>15</b>	0.58	1.0	"	"	"	"	"	"	
<b>Copper</b>	<b>2.9</b>	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.021	0.062	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
<b>Manganese</b>	<b>120</b>	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
<b>Nickel</b>	<b>12</b>	0.58	1.0	"	"	"	"	"	"	
<b>Lead</b>	<b>4.4</b>	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
<b>Zinc</b>	<b>19</b>	2.3	10	"	"	"	"	"	"	

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320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**SMB Pico Kenter**  
**C5E0054-11 (Sludge, Sampled: 04/29/25 14:20)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	78	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1200	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.5	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	10	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	0.56	0.50	1.0	"	"	"	"	"	"	J
Cobalt	1.0	0.50	1.0	"	"	"	"	"	"	
Total Chromium	3.6	0.58	1.0	"	"	"	"	"	"	
Copper	2.6	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.021	0.064	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	55	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	0.62	0.61	5.0	"	"	"	"	"	"	J
Nickel	3.4	0.58	1.0	"	"	"	"	"	"	
Lead	1.6	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	9.8	2.3	10	"	"	"	"	"	"	J

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**320 West Fourth Street, Suite 200**  
**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**Venice B Rose Ave**  
**C5E0054-12 (Sludge, Sampled: 04/29/25 15:30)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	79	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1800	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.9	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	5.9	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.6	0.50	1.0	"	"	"	"	"	"	
Total Chromium	6.1	0.58	1.0	"	"	"	"	"	"	
Copper	2.2	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.021	0.063	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	42	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	6.6	0.58	1.0	"	"	"	"	"	"	
Lead	1.7	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	15	2.3	10	"	"	"	"	"	"	

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Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Venice Beach**  
**C5E0054-13 (Sludge, Sampled: 04/29/25 15:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Babcock Laboratories, Inc. - Riverside**

**Solids**

Total Solids	86	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
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**Metals and Metalloids; EPA SW846 Series**

Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1400	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.8	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	6.0	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.0	0.50	1.0	"	"	"	"	"	"	
Total Chromium	4.7	0.58	1.0	"	"	"	"	"	"	
Copper	1.5	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.019	0.058	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	46	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	3.6	0.58	1.0	"	"	"	"	"	"	
Lead	1.8	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	9.7	2.3	10	"	"	"	"	"	"	J

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320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Mother's Beach**  
**C5E0054-14 (Sludge, Sampled: 04/30/25 09:30)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	84	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2100	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.5	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	6.0	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	2.1	0.50	1.0	"	"	"	"	"	"	
Total Chromium	11	0.58	1.0	"	"	"	"	"	"	
Copper	12	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.020	0.059	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	63	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.6	0.58	1.0	"	"	"	"	"	"	
Lead	6.0	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	42	2.3	10	"	"	"	"	"	"	

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Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Dockweiler Beach**  
**C5E0054-15 (Sludge, Sampled: 04/30/25 08:30)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	97	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.1	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	5.3	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.2	0.50	1.0	"	"	"	"	"	"	
Total Chromium	5.5	0.58	1.0	"	"	"	"	"	"	
Copper	1.9	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	40	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	4.9	0.58	1.0	"	"	"	"	"	"	
Lead	3.4	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	11	2.3	10	"	"	"	"	"	"	

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State Water Resources Control Board - Region 4  
320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**Redondo Break**  
**C5E0054-16 (Sludge, Sampled: 04/30/25 07:50)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	86	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1300	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.8	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	4.4	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	0.62	0.50	1.0	"	"	"	"	"	"	J
Total Chromium	4.3	0.58	1.0	"	"	"	"	"	"	
Copper	0.96	0.51	1.0	"	"	"	"	"	"	J
Mercury	ND	0.019	0.058	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	23	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	2.5	0.58	1.0	"	"	"	"	"	"	
Lead	2.9	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	9.5	2.3	10	"	"	"	"	"	"	J

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State Water Resources Control Board - Region 4  
320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

**RAT Beach**  
**C5E0054-17 (Sludge, Sampled: 04/30/25 07:00)**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Babcock Laboratories, Inc. - Riverside										
Solids										
Total Solids	90	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA SW846 Series										
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	3900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	4.2	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	890	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	2.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	16	0.58	1.0	"	"	"	"	"	"	
Copper	2.3	0.51	1.0	"	"	"	"	"	"	
Mercury	0.044	0.018	0.055	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	J
Manganese	180	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.0	0.58	1.0	"	"	"	"	"	"	
Lead	5.7	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	19	2.3	10	"	"	"	"	"	"	

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320 West Fourth Street, Suite 200  
Los Angeles CA, 90013

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

**Solids - Quality Control**  
**Babcock Laboratories, Inc. - Riverside**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5E06196, Prep Method: N/A, Analyst: RJB**

**Blank (5E06196-BLK1)**

Prepared & Analyzed: 05/06/25

Total Solids ND 0.10 0.10 %

**Duplicate (5E06196-DUP1)**

Source: C5E0054-01

Prepared & Analyzed: 05/06/25

Total Solids 96.2 0.10 0.10 % 96.3 0.05 25

**Duplicate (5E06196-DUP2)**

Source: C5E0054-02

Prepared & Analyzed: 05/06/25

Total Solids 93.2 0.10 0.10 % 93.0 0.1 25

**Batch 5E07152, Prep Method: N/A, Analyst: PBS**

**Blank (5E07152-BLK1)**

Prepared & Analyzed: 05/07/25

Total Solids ND 0.10 0.10 %

**Duplicate (5E07152-DUP1)**

Source: C5E0054-15

Prepared & Analyzed: 05/07/25

Total Solids 96.9 0.10 0.10 % 97.0 0.1 25

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**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
 Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
 Project Manager: Emily Duncan

**Reported:**  
 05/19/25 15:56

**Metals and Metalloids; EPA SW846 Series - Quality Control**

**Babcock Laboratories, Inc. - Riverside**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJK**

**Blank (5E02107-BLK1)**

Prepared: 05/06/25 Analyzed: 05/08/25

Antimony	ND	0.52	1.0	mg/kg wet
Arsenic	ND	0.53	1.0	"
Barium	ND	0.49	1.0	"
Beryllium	ND	0.52	1.0	"
Cadmium	ND	0.50	1.0	"
Total Chromium	ND	0.58	1.0	"
Cobalt	ND	0.50	1.0	"
Copper	ND	0.51	1.0	"
Lead	ND	0.29	2.0	"
Manganese	ND	2.1	10	"
Molybdenum	ND	0.61	5.0	"
Nickel	ND	0.58	1.0	"
Selenium	ND	0.85	5.0	"
Silver	ND	0.56	1.0	mg/kg dry
Thallium	ND	0.54	1.0	mg/kg wet
Zinc	ND	2.3	10	"

**LCS (5E02107-BS1)**

Prepared: 05/06/25 Analyzed: 05/08/25

Antimony	206	0.52	1.0	mg/kg wet	200	103	79-132
Arsenic	207	0.53	1.0	"	200	103	80-127
Barium	199	0.49	1.0	"	200	99	80-120
Beryllium	212	0.52	1.0	"	200	106	79-124
Cadmium	198	0.50	1.0	"	200	99	80-122
Total Chromium	194	0.58	1.0	"	200	97	81-118
Cobalt	197	0.50	1.0	"	200	98	80-124
Copper	193	0.51	1.0	"	200	97	80-117
Lead	207	0.29	2.0	"	200	103	82-124
Manganese	191	2.1	10	"	200	96	84-122
Molybdenum	199	0.61	5.0	"	200	99	82-130
Nickel	190	0.58	1.0	"	200	95	81-117
Selenium	220	0.85	5.0	"	200	110	76-144
Silver	9.38	0.56	1.0	mg/kg dry	10.0	94	20-164
Thallium	210	0.54	1.0	mg/kg wet	200	105	75-118
Zinc	209	2.3	10	"	200	105	75-124

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJK

Duplicate (5E02107-DUP1)		Source: C5E0054-01				Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	ND	0.52	1.0	mg/kg dry		ND				20	
Arsenic	2.91	0.53	1.0	"		2.79			4	20	
Barium	32.8	0.49	1.0	"		18.4			56	20	QFnt
Beryllium	ND	0.52	1.0	"		ND				20	
Cadmium	ND	0.50	1.0	"		ND				20	
Total Chromium	15.1	0.58	1.0	"		20.2			29	20	QRPDh
Cobalt	3.39	0.50	1.0	"		4.19			21	20	QFnt
Copper	3.46	0.51	1.0	"		3.10			11	20	
Lead	4.53	0.29	2.0	"		5.61			21	20	QRPDI
Manganese	113	2.1	10	"		138			20	20	
Molybdenum	1.29	0.61	5.0	"		1.60			22	20	QFnt, QRPDI, J
Nickel	9.09	0.58	1.0	"		9.13			0.5	20	
Selenium	ND	0.85	5.0	"		ND				20	
Silver	ND	0.56	1.0	"		ND				20	
Thallium	ND	0.54	1.0	"		ND				20	
Zinc	20.5	2.3	10	"		28.9			34	20	QRPDI

Duplicate (5E02107-DUP2)		Source: C5E0054-01				Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	ND	2.6	5.0	mg/kg dry		ND				20	
Arsenic	ND	2.7	5.0	"		2.79				20	
Barium	33.3	2.5	5.0	"		18.4			58	20	QFnt
Beryllium	ND	2.6	5.0	"		ND				20	
Cadmium	ND	2.5	5.0	"		ND				20	
Total Chromium	15.4	2.9	5.0	"		20.2			27	20	QRPDh
Cobalt	3.62	2.5	5.0	"		4.19			14	20	J
Copper	3.64	2.6	5.0	"		3.10			16	20	J
Lead	4.69	1.4	10	"		5.61			18	20	J
Manganese	115	11	50	"		138			19	20	
Molybdenum	ND	3.1	25	"		ND				20	
Nickel	9.64	2.9	5.0	"		9.13			5	20	
Selenium	ND	4.3	25	"		ND				20	
Silver	ND	2.8	5.0	"		ND				20	
Thallium	ND	2.7	5.0	"		ND				20	
Zinc	23.3	11	50	"		28.9			22	20	QRPDI, J

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**320 West Fourth Street, Suite 200**  
**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

**Reported:**  
05/19/25 15:56

### Metals and Metalloids; EPA SW846 Series - Quality Control

#### Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJK

Matrix Spike (5E02107-MS1)				Source: C5E0054-01		Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	170	0.52	1.0	mg/kg dry	207	ND	82	10-156			
Arsenic	222	0.53	1.0	"	207	2.79	106	77-131			
Barium	263	0.49	1.0	"	207	18.4	118	61-132			
Beryllium	214	0.52	1.0	"	207	ND	103	68-128			
Cadmium	216	0.50	1.0	"	207	ND	104	72-121			
Total Chromium	242	0.58	1.0	"	207	20.2	107	60-129			
Cobalt	215	0.50	1.0	"	207	4.19	102	64-128			
Copper	211	0.51	1.0	"	207	3.10	101	36-141			
Lead	225	0.29	2.0	"	207	5.61	106	60-126			
Manganese	424	2.1	10	"	207	138	138	63-135			QMint
Molybdenum	213	0.61	5.0	"	207	1.60	102	60-140			
Nickel	219	0.58	1.0	"	207	9.13	102	60-135			
Selenium	226	0.85	5.0	"	207	ND	109	73-141			
Silver	10.1	0.56	1.0	"	9.95	ND	102	10-155			
Thallium	227	0.54	1.0	"	207	ND	110	57-122			
Zinc	248	2.3	10	"	207	28.9	106	26-166			

Matrix Spike Dup (5E02107-MSD1)				Source: C5E0054-01		Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	169	0.52	1.0	mg/kg dry	207	ND	81	10-156	0.8	20	
Arsenic	212	0.53	1.0	"	207	2.79	101	77-131	5	20	
Barium	238	0.49	1.0	"	207	18.4	106	61-132	10	20	
Beryllium	207	0.52	1.0	"	207	ND	100	68-128	3	20	
Cadmium	207	0.50	1.0	"	207	ND	100	72-121	4	20	
Total Chromium	226	0.58	1.0	"	207	20.2	100	60-129	7	20	
Cobalt	205	0.50	1.0	"	207	4.19	97	64-128	5	20	
Copper	205	0.51	1.0	"	207	3.10	97	36-141	3	20	
Lead	217	0.29	2.0	"	207	5.61	102	60-126	4	20	
Manganese	421	2.1	10	"	207	138	137	63-135	0.7	20	QMint
Molybdenum	207	0.61	5.0	"	207	1.60	99	60-140	3	20	
Nickel	209	0.58	1.0	"	207	9.13	96	60-135	5	20	
Selenium	221	0.85	5.0	"	207	ND	107	73-141	2	20	
Silver	9.75	0.56	1.0	"	9.97	ND	98	10-155	4	20	
Thallium	216	0.54	1.0	"	207	ND	105	57-122	5	20	
Zinc	239	2.3	10	"	207	28.9	101	26-166	4	20	

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Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

Reported:  
05/19/25 15:56

### Metals and Metalloids; EPA SW846 Series - Quality Control

#### Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5E06157, Prep Method: EPA 3050B, Analyst: ALD

##### Blank (5E06157-BLK1)

Prepared: 05/06/25 Analyzed: 05/07/25

Aluminum	ND	3.6	10	mg/kg dry
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##### LCS (5E06157-BS1)

Prepared: 05/06/25 Analyzed: 05/07/25

Aluminum	2470	3.6	10	mg/kg dry	2200	112	72-120
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##### Matrix Spike (5E06157-MS1)

Source: C5E0054-01

Prepared: 05/06/25 Analyzed: 05/07/25

Aluminum	6090	3.6	10	mg/kg dry	2190	1970	188	61-121		QMint
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##### Matrix Spike Dup (5E06157-MSD1)

Source: C5E0054-01

Prepared: 05/06/25 Analyzed: 05/07/25

Aluminum	6500	3.6	10	mg/kg dry	2190	1970	207	61-121	7	25	QMint
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#### Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK

##### Blank (5E14096-BLK1)

Prepared: 05/06/25 Analyzed: 05/08/25

Antimony	ND	0.52	1.0	mg/kg
Arsenic	ND	0.53	1.0	"
Barium	ND	0.49	1.0	"
Beryllium	ND	0.52	1.0	"
Cadmium	ND	0.50	1.0	"
Total Chromium	ND	0.58	1.0	"
Cobalt	ND	0.50	1.0	"
Copper	ND	0.51	1.0	"
Lead	ND	0.29	2.0	"
Molybdenum	ND	0.61	5.0	"
Nickel	ND	0.58	1.0	"
Selenium	ND	0.85	5.0	"
Silver	ND	0.56	1.0	"
Thallium	ND	0.54	1.0	"
Zinc	ND	2.3	10	"

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**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan

**Reported:**  
05/19/25 15:56

**Metals and Metalloids; EPA SW846 Series - Quality Control**

**Babcock Laboratories, Inc. - Riverside**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK**

**LCS (5E14096-BS1)**

Prepared: 05/06/25 Analyzed: 05/08/25

Antimony	206	0.52	1.0	mg/kg	200		103	79-132			
Arsenic	207	0.53	1.0	"	200		103	80-127			
Barium	199	0.49	1.0	"	200		99	80-120			
Beryllium	212	0.52	1.0	"	200		106	79-124			
Cadmium	198	0.50	1.0	"	200		99	80-122			
Total Chromium	194	0.58	1.0	"	200		97	81-118			
Cobalt	197	0.50	1.0	"	200		98	80-124			
Copper	193	0.51	1.0	"	200		97	80-117			
Lead	207	0.29	2.0	"	200		103	82-124			
Molybdenum	199	0.61	5.0	"	200		99	82-130			
Nickel	190	0.58	1.0	"	200		95	81-117			
Selenium	220	0.85	5.0	"	200		110	76-144			
Silver	9.38	0.56	1.0	"	10.0		94	20-164			
Thallium	210	0.54	1.0	"	200		105	75-118			
Zinc	209	2.3	10	"	200		105	75-124			

**Duplicate (5E14096-DUP1)**

**Source: C5E0054-01RE1** Prepared: 05/06/25 Analyzed: 05/08/25

Antimony	ND	0.52	1.0	mg/kg	ND				20		
Arsenic	2.81	0.53	1.0	"	2.69				5	20	
Barium	31.8	0.49	1.0	"	18.4				53	20	QRPDh
Beryllium	ND	0.52	1.0	"	ND					20	
Cadmium	ND	0.50	1.0	"	ND					20	
Total Chromium	14.6	0.58	1.0	"	19.4				28	20	QRPDh
Cobalt	3.27	0.50	1.0	"	4.19				24	20	QRPDI
Copper	3.34	0.51	1.0	"	2.98				11	20	
Lead	4.38	0.29	2.0	"	5.40				21	20	QRPDI
Molybdenum	1.24	0.61	5.0	"	1.60				25	20	QRPDI, J
Nickel	8.79	0.58	1.0	"	8.79				0.04	20	
Selenium	ND	0.85	5.0	"	ND					20	
Silver	ND	0.56	1.0	"	ND					20	
Thallium	ND	0.54	1.0	"	ND					20	
Zinc	19.8	2.3	10	"	27.8				34	20	QRPDI

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**State Water Resources Control Board - Region 4**  
**320 West Fourth Street, Suite 200**  
**Los Angeles CA, 90013**

Project: RWB4\_PostFire\_2025  
 Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
 Project Manager: Emily Duncan  
 Reported: 05/19/25 15:56

**Metals and Metalloids; EPA SW846 Series - Quality Control**

**Babcock Laboratories, Inc. - Riverside**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK**

Duplicate (5E14096-DUP2)				Source: C5E0054-01RE1		Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	ND	2.6	5.0	mg/kg		ND				20	
Arsenic	ND	2.7	5.0	"		2.69				20	
Barium	32.2	2.5	5.0	"		18.4			55	20	QRPDI
Beryllium	ND	2.6	5.0	"		ND				20	
Cadmium	ND	2.5	5.0	"		ND				20	
Total Chromium	14.9	2.9	5.0	"		19.4			26	20	QRPDI
Cobalt	3.50	2.5	5.0	"		4.19			18	20	J
Copper	3.52	2.6	5.0	"		2.98			17	20	J
Lead	4.53	1.4	10	"		5.40			17	20	J
Molybdenum	ND	3.1	25	"		ND				20	
Nickel	9.32	2.9	5.0	"		8.79			6	20	
Selenium	ND	4.3	25	"		ND				20	
Silver	ND	2.8	5.0	"		ND				20	
Thallium	ND	2.7	5.0	"		ND				20	
Zinc	22.5	11	50	"		27.8			21	20	QRPDI, J

Matrix Spike (5E14096-MS1)				Source: C5E0054-01RE1		Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	165	0.52	1.0	mg/kg	200	ND	82	10-156			
Arsenic	215	0.53	1.0	"	200	2.69	106	77-131			
Barium	255	0.49	1.0	"	200	17.7	118	61-132			
Beryllium	207	0.52	1.0	"	200	ND	103	68-128			
Cadmium	209	0.50	1.0	"	200	ND	104	72-121			
Total Chromium	234	0.58	1.0	"	200	19.4	107	60-129			
Cobalt	208	0.50	1.0	"	200	4.03	102	64-128			
Copper	204	0.51	1.0	"	200	2.98	101	36-141			
Lead	218	0.29	2.0	"	200	5.40	106	60-126			
Molybdenum	206	0.61	5.0	"	200	1.54	102	60-140			
Nickel	212	0.58	1.0	"	200	8.79	102	60-135			
Selenium	219	0.85	5.0	"	200	ND	109	73-141			
Silver	10.2	0.56	1.0	"	10.0	ND	102	10-155			
Thallium	219	0.54	1.0	"	200	ND	110	57-122			
Zinc	240	2.3	10	"	200	27.8	106	26-166			

Babcock Laboratories, Inc. - Riverside

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Julieta Melissa Machuca For Alexandria L. Guerra, Special Programs Coordinator



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 Project Manager: Emily Duncan  
 Reported: 05/19/25 15:56

### Metals and Metalloids; EPA SW846 Series - Quality Control

#### Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK

Matrix Spike Dup (5E14096-MSD1)				Source: C5E0054-01RE1		Prepared: 05/06/25		Analyzed: 05/08/25			
Antimony	163	0.52	1.0	mg/kg	200	ND	81	10-156	0.9	20	
Arsenic	204	0.53	1.0	"	200	2.69	101	77-131	5	20	
Barium	230	0.49	1.0	"	200	17.7	106	61-132	10	20	
Beryllium	201	0.52	1.0	"	200	ND	100	68-128	3	20	
Cadmium	200	0.50	1.0	"	200	ND	100	72-121	4	20	
Total Chromium	219	0.58	1.0	"	200	19.4	100	60-129	7	20	
Cobalt	198	0.50	1.0	"	200	4.03	97	64-128	5	20	
Copper	198	0.51	1.0	"	200	2.98	97	36-141	3	20	
Lead	209	0.29	2.0	"	200	5.40	102	60-126	4	20	
Molybdenum	200	0.61	5.0	"	200	1.54	99	60-140	3	20	
Nickel	202	0.58	1.0	"	200	8.79	96	60-135	5	20	
Selenium	213	0.85	5.0	"	200	ND	107	73-141	3	20	
Silver	9.79	0.56	1.0	"	10.0	ND	98	10-155	4	20	
Thallium	209	0.54	1.0	"	200	ND	105	57-122	5	20	
Zinc	231	2.3	10	"	200	27.8	101	26-166	4	20	

#### Batch 5E15110, Prep Method: EPA 7471A, Analyst: JTR

Blank (5E15110-BLK1)				Prepared & Analyzed: 05/19/25							
Mercury	ND	0.017	0.050	mg/kg wet							
LCS (5E15110-BS1)				Prepared & Analyzed: 05/19/25							
Mercury	0.201	0.017	0.050	mg/kg wet	0.200		101	77-115			
Matrix Spike (5E15110-MS1)				Source: C5E0054-01		Prepared & Analyzed: 05/19/25					
Mercury	0.218	0.017	0.052	mg/kg dry	0.207	ND	105	22-150			

Babcock Laboratories, Inc. - Riverside

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported:  
05/19/25 15:56

**Metals and Metalloids; EPA SW846 Series - Quality Control**

**Babcock Laboratories, Inc. - Riverside**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5E15110, Prep Method: EPA 7471A, Analyst: JTR**

<b>Matrix Spike Dup (5E15110-MSD1)</b>	<b>Source: C5E0054-01</b>				<b>Prepared &amp; Analyzed: 05/19/25</b>						
Mercury	0.213	0.017	0.052	mg/kg dry	0.206	ND	103	22-150	2	25	

Babcock Laboratories, Inc. - Riverside

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Project: RWB4\_PostFire\_2025  
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring  
Project Manager: Emily Duncan  
Reported: 05/19/25 15:56

### Notes and Definitions

J	Estimated value
Nconf	Result(s) confirmed by re-analysis.
NMint	Due to matrix interference, the matrix spike and/or matrix spike duplicate performed on this sample did not meet laboratory acceptance criteria.
QFnt	The referenced sample did not require this QC analyte, so a follow-up is not needed.
QMint	Due to matrix interference, the MS and/or MSD did not meet laboratory acceptance criteria.
QRPDh	Due to non-homogeneity of the referenced sample, the replicate analysis did not meet laboratory acceptance criteria
QRPDI	Analyte concentration was below range for valid RPD determination.

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DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Reporting Limit (or Method Detection Limit when listed)
NR	Not Reported
Dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Babcock Laboratories, Inc. - Riverside - Certification(s) List

Cert. ID	Description	Cert. Number	Expires
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Babcock Laboratories, Inc. - Riverside

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EventCode WQ		Project Code		RWB4_PostFire_2025		Agreement No.		Analysis Request: (Type/write in single analysis vertically (e.g.TOC) or analyte group with all analytes named (e.g. metals = Ni,Cu,Fe, Pb,Cr,Se) Bottle1 - PAHs 250ml Amber Glass Bottle2 - Polychlorinated Biphenyls Suite 250ml Amber Glass (PCB Congeners- EPA 8082M) Bottle3 - Trace Metals = Al, Cr, Hex Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se Dioxins											
Fiscal Year 24/25		Project Name		Region 4 post-fire water and beach sand monitoring		Results to								emily.duncan@waterboards.ca.gov					
Agency Code RWQCB_4						Field Lead								Billy Jaki, 831-236-3337, william.jaki@sjsu.edu					
OR ->						Project Lead								Emily Duncan, (213) 576-6679, emily.duncan@waterboards.ca.gov					
		Company		Water Boards															
Note: Standard field preservation codes to choose ->								Field Acidified, Field Filtered, Field Frozen											
To obtain appropriate "codes", consult the SWAMP Database Look-up-lists -> <a href="https://swamp.waterboards.ca.gov/swamp_checker/LookUpLists.aspx">https://swamp.waterboards.ca.gov/swamp_checker/LookUpLists.aspx</a>								OR contact OIMA- helpdesk@waterboards.ca.gov											
								Protocol Code (i.e.sample collection)											
								MPSL-DFW Field_v1.1											
SampleID	Station Code	Sample Date	Sample Time	Replicate	Location Code	Collection Method Code	Sample Type Code	Collection Depth (m)	Salinity (ppt), EC	Container Material	Sample Comments (Include Preservation Code)	# of samples	Bottle1 - PAHs 250ml Amber Glass	Bottle2 - Polychlorinated Biphenyls Suite 250ml Amber Glass (PCB Congeners- EPA 8082M)	Bottle3 - Trace Metals = Al, Cr, Hex Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se	Dioxins			
Zuma Beach	404ZUMAB	4/29/2025	10:20	2	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Leo Carrillo State Beach	404LEOCAR	4/29/2025	9:40	1	Bank	Sed_Grab	Integrated	2 cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Zuma Beach	404ZUMAB	4/29/2025	10:20	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Malibu Surfrider	404MSBE	4/29/2025	11:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Topanga Lagoon	404TOPLA	4/29/2025	11:50	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Topanga Beach	404TOPBE	4/29/2025	12:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Will Rogers state Beach	404WILLR	4/29/2025	12:30	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
SMC Rustic Creek	404SMCRC	4/29/2025	13:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
SMB Montana Ave	404SMBMA	4/29/2025	13:30	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
SMB north of pier	404SMBNP	4/29/2025	14:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
* SMB pico kenter	404SMBPK	4/29/2025	14:20	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Venice B Rose Ave	404VBRASD	4/29/2025	15:30	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Venice Beach	404VENICE	4/29/2025	15:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Mother's Beach	404MOTHB	4/30/2025	930	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Dockweiler Beach	404DOCKB	4/30/2025	830	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Redondo Break	404REDOB	4/30/2025	750	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
RAT Beach	404RATB	4/30/2025	700	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	Ice/See analysis by bottle type	4	X	X	X	X			
Request Details:		Turnaround Time (CIRCLE):		Rush		24-hours		48-hours		72 hours		30-days		As quickly as possible					
Sample Types (i.e. matrix) on this form: (CIRCLE)		Ambient/ receiving water		Sediment		Tissue		Effluent		e.g. stormwater, groundwater		Oil + Gas		Other					
Samples Relinquished by:		Name (Print and Sign)		Date & Time		Samples Received by:		Name (Print and Sign)		Date & Time		Distribution of COC form: Original accompanies shipment, Electronic copy emailed							
Billy Jaki		4/ 30 /2025		FRED Ex		FRED Ex		FRED Ex		FRED Ex		aguerra@babcocklabs.com, emily.duncan@waterboards.ca.gov							

4 C

On Ice

Samples Intact

YES NO

YES NO

TG 61  
FAC  
178jars state" Santa Monica Beach"  
JLH 5/1/2025

C5E0054

Rc'd: 05/01/2025 11:40

JLH

AutoSpooler

