

4 Justin Court Suite D
Monterey, CA 93940
Phone: (831) 375-MBAS (6227)
www.MBASinc.com

ELAP Certification Number: 2385

Certificate of Analysis

February 17, 2025

Emily Donham
County of Santa Cruz Water Quality Lab EH-WQLab
1060 Emeline Ave B-1
Santa Cruz, CA 95060

Thank you for using Monterey Bay Analytical Services for your analytical testing needs.
In the following pages please find the test results for the samples submitted February 05, 2025
for order ID #: 250205_061

Sample results are on the Sample Results page and are related only to the samples analyzed.

The samples were analyzed in accordance with the attached Chain of Custody document.
Sample receipt conditions were noted on the chain of custody forms and are reported at the end
of this report. Any deviations from the quality requirements are specified in the Quality Control
report attached (if applicable) to the analytical report.

This certificate of analysis shall not be reproduced except in full, without written approval of the
laboratory.

Authorized by



David Holland
Laboratory Director
Monterey Bay Analytical Services



Thank you again for using MBAS. We value your business and appreciate your loyalty.



MONTEREY BAY ANALYTICAL SERVICES
CELEBRATING 25 YEARS | 1999-2024

County of Santa Cruz Water Quality Lab EH-WQL

Emily Donham
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Santa Cruz, CA 95060

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Monday, February 17, 2025

Sample Results

Lab Number: 250205_061-01 Sample Description: Watsonville Sloughs (STRU22) Sample

Collection Date/Time: 1/31/2025 12:53 Sample Collector: Dominik, C Client Sample #: 167765 4-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	120	1	E			2/7/2025 14:02	E
Cobalt	SW6020	mg/kg	6.4	1	E			2/7/2025 16:17	E
Lithium	SW6020	mg/kg	5.8	1	E			2/7/2025 16:17	E
Nickel	SW6020	mg/kg	26	1	E			2/7/2025 16:17	E

Lab Number: 250205_061-02 Sample Description: Watsonville Sloughs (STRU22) Control

Collection Date/Time: 1/31/2025 12:52 Sample Collector: Dominik, C Client Sample #: 167773 4C-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	170	1	E			2/7/2025 14:05	E
Cobalt	SW6020	mg/kg	11	1	E			2/7/2025 16:21	E
Lithium	SW6020	mg/kg	5.5	1	E			2/7/2025 16:21	E
Nickel	SW6020	mg/kg	32	1	E			2/7/2025 16:21	E

Lab Number: 250205_061-03 Sample Description: Watsonville Sloughs (STRU22) Control

Collection Date/Time: 1/31/2025 12:51 Sample Collector: Dominik, C Client Sample #: 167773 4C-2
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	490	1	E			2/7/2025 14:14	E
Cobalt	SW6020	mg/kg	19	1	E			2/7/2025 16:24	E
Lithium	SW6020	mg/kg	3.7	1	E,J			2/7/2025 16:24	E
Nickel	SW6020	mg/kg	31	1	E			2/7/2025 16:24	E

Lab Number: 250205_061-04 Sample Description: Watsonville Sloughs (STRU22) Control

Collection Date/Time: 1/31/2025 12:50 Sample Collector: Dominik, C Client Sample #: 167773 4C-3
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	110	1	E			2/7/2025 14:17	E
Cobalt	SW6020	mg/kg	5.8	1	E			2/7/2025 17:30	E
Lithium	SW6020	mg/kg	5.4	1	E			2/7/2025 17:30	E
Nickel	SW6020	mg/kg	26	1	E			2/7/2025 17:30	E



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Lab Number: 250205_061-05 Sample Description: Watsonville Sloughs (STRUV23) Sample

Collection Date/Time: 1/31/2025 14:22 Sample Collector: Dominik, C Client Sample #: 167768 7-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	520	1	E			2/7/2025 14:20	E
Cobalt	SW6020	mg/kg	11	1	E			2/7/2025 15:15	E
Lithium	SW6020	mg/kg	19	1	E			2/7/2025 15:15	E
Nickel	SW6020	mg/kg	69	1	E			2/7/2025 15:15	E

Lab Number: 250205_061-06 Sample Description: Watsonville Sloughs (STRUV23) Sample

Collection Date/Time: 1/31/2025 14:23 Sample Collector: Dominik, C Client Sample #: 167768 7-2
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	580	1	E			2/7/2025 14:23	E
Cobalt	SW6020	mg/kg	7.6	1	E			2/7/2025 15:26	E
Lithium	SW6020	mg/kg	9.2	1	E			2/7/2025 15:26	E
Nickel	SW6020	mg/kg	37	1	E			2/7/2025 15:26	E

Lab Number: 250205_061-07 Sample Description: Watsonville Sloughs (STRUV23) Sample

Collection Date/Time: 1/31/2025 14:24 Sample Collector: Dominik, C Client Sample #: 167768 7-3
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	240	1	E			2/7/2025 14:26	E
Cobalt	SW6020	mg/kg	2.7	1	E			2/7/2025 15:30	E
Lithium	SW6020	mg/kg	2.2	1	E,J			2/7/2025 15:30	E
Nickel	SW6020	mg/kg	12	1	E			2/7/2025 15:30	E

Lab Number: 250205_061-08 Sample Description: Watsonville Sloughs (STRUV23) Control

Collection Date/Time: 1/31/2025 14:25 Sample Collector: Dominik, C Client Sample #: 167776 7C-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	410	1	E			2/7/2025 14:29	E
Cobalt	SW6020	mg/kg	8.7	1	E			2/7/2025 15:33	E
Lithium	SW6020	mg/kg	14	1	E			2/7/2025 15:33	E
Nickel	SW6020	mg/kg	51	1	E			2/7/2025 15:33	E



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Monday, February 17, 2025

Lab Number: 250205_061-09 Sample Description: Watsonville Sloughs (STRUV23) Control

Collection Date/Time: 1/31/2025 14:26 Sample Collector: Dominik, C Client Sample #: 167776 7C-2
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	380	1	E			2/7/2025 14:32	E
Cobalt	SW6020	mg/kg	7.3	1	E			2/7/2025 15:37	E
Lithium	SW6020	mg/kg	11	1	E			2/7/2025 15:37	E
Nickel	SW6020	mg/kg	43	1	E			2/7/2025 15:37	E

Lab Number: 250205_061-10 Sample Description: Watsonville Sloughs (STRUV23) Control

Collection Date/Time: 1/31/2025 14:27 Sample Collector: Dominik, C Client Sample #: 167776 7C-3
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	150	1	E			2/7/2025 14:34	E
Cobalt	SW6020	mg/kg	3.7	1	E			2/7/2025 15:41	E
Lithium	SW6020	mg/kg	4.6	1	E,J			2/7/2025 15:41	E
Nickel	SW6020	mg/kg	19	1	E			2/7/2025 15:41	E

Lab Number: 250205_061-11 Sample Description: Watsonville Sloughs (STRUV22) Sample

Collection Date/Time: 1/31/2025 12:54 Sample Collector: Dominik, C Client Sample #: 167765 4-2
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	460	1	E			2/7/2025 14:37	E
Cobalt	SW6020	mg/kg	11	1	E			2/7/2025 15:44	E
Lithium	SW6020	mg/kg	5.9	1	E			2/7/2025 15:44	E
Nickel	SW6020	mg/kg	32	1	E			2/7/2025 15:44	E

Lab Number: 250205_061-12 Sample Description: Watsonville Sloughs (STRUV22) Sample

Collection Date/Time: 1/31/2025 12:55 Sample Collector: Dominik, C Client Sample #: 167765 4-3
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	160	1	E			2/7/2025 14:40	E
Cobalt	SW6020	mg/kg	5.5	1	E			2/7/2025 15:48	E
Lithium	SW6020	mg/kg	4.5	1	E,J			2/7/2025 15:48	E
Nickel	SW6020	mg/kg	21	1	E			2/7/2025 15:48	E



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Lab Number: 250205_061-13 Sample Description: Pinto Lake at County Dock (PL16) Control

Collection Date/Time: 1/31/2025 11:36 Sample Collector: Dominik, C Client Sample #: 167770 1C-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	72	1	E			2/7/2025 14:49	E
Cobalt	SW6020	mg/kg	3.4	1	E			2/7/2025 15:52	E
Lithium	SW6020	mg/kg	3.5	1	E,J			2/7/2025 15:52	E
Nickel	SW6020	mg/kg	25	1	E			2/7/2025 15:52	E

Lab Number: 250205_061-14 Sample Description: Pinto Lake at County Dock (PL16) Control

Collection Date/Time: 1/31/2025 11:37 Sample Collector: Dominik, C Client Sample #: 167770 1C-2
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	180	1	E			2/11/2025 13:44	E
Cobalt	SW6020	mg/kg	4.6	1	E			2/7/2025 13:52	E
Lithium	SW6020	mg/kg	3.4	1	E,J			2/7/2025 13:52	E
Nickel	SW6020	mg/kg	5.8	1	E			2/7/2025 13:52	E

Lab Number: 250205_061-15 Sample Description: Pinto Lake at County Dock (PL16) Sample

Collection Date/Time: 1/31/2025 11:38 Sample Collector: Dominik, C Client Sample #: 167762 1-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	43	1	E,J			2/7/2025 12:37	E
Cobalt	SW6020	mg/kg	1.3	1	E			2/7/2025 15:55	E
Lithium	SW6020	mg/kg	ND	1	E			2/7/2025 15:55	E
Nickel	SW6020	mg/kg	6.7	1	E			2/7/2025 15:55	E

Lab Number: 250205_061-16 Sample Description: Pinto Lake at County Dock (PL16) Sample

Collection Date/Time: 1/31/2025 11:39 Sample Collector: Dominik, C Client Sample #: 167762 1-1
Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	160	1	E			2/7/2025 14:52	E
Cobalt	SW6020	mg/kg	4.6	1	E			2/7/2025 15:59	E
Lithium	SW6020	mg/kg	1.8	1	E,J			2/7/2025 15:59	E
Nickel	SW6020	mg/kg	9.3	1	E			2/7/2025 15:59	E



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Monday, February 17, 2025

Lab Number: 250205_061-17 Sample Description: Pinto Lake at County Dock (PL16) Sample

Collection Date/Time: 1/31/2025 11:40 Sample Collector: Dominik, C Client Sample #: 167762 1-1

Received Date/Time: 2/5/2025 15:05 System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Manganese, Total	SW6010B	mg/kg	100	1	E			2/11/2025 13:47	E
Cobalt	SW6020	mg/kg	1.9	1	E			2/11/2025 13:56	E
Lithium	SW6020	mg/kg	ND	1	E			2/11/2025 13:56	E
Nickel	SW6020	mg/kg	3.6	1	E			2/11/2025 13:56	E



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Sample Condition Upon Receipt

Order ID #: 250205_061

If laboratory received sample(s) on the same day of collection, is there evidence of chilling?	Yes
If not received by the laboratory on the day of collection, is/are sample(s) within correct temperature range? <10°C (Microbiology) or <=6°C (Chemistry/Non-metals)	N/A
If NO to either above, was client notified that sample was received at improper temperature?	N/A
Did bottle(s) arrive intact?	Yes
Did bottle label(s) agree with COC?	No. -16= Bottle label says 167761-1-2; -17= Bottle label says 127762-1-3. 2/5/25 SR
Adequate sample volume?	Yes



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Monday, February 17, 2025

List of Non-Accredited Test

Order ID #: 250205_061

California ELAP does not offer certification for the following analyses that may performed by our laboratory.

Test	Method	Description
Aggressivity Calculation	Calculation	Aggressivity Calculation
Langelier Index Corrosivity	Calculation	Langelier Index/Corrosivity - SM 2330B
ORP	SM2580B	Oxidation-Reduction Potential (ORP)
Ryznar Stability Index	Ryznar 1944/Calc	Ryznar Stability Index - Ryznar 1944
Salinity	SM2520B	Salinity - SM 2520B (Calculation)
SAR	Suarez, 1981	SAR - Suarez 1981
Urea	Mulvenna&Savidge	Urea - Mulvenna & Savidge
Odor	SM 2150B	SM 2150 B

Please note: Tests reported with method of "Calculation" are outside the scope of our ELAP accreditation.

Field tests are outside the scope of laboratory accreditation, as there is no certification available for field testing. However, samples collected by MBAS were obtained in accordance with the MBAS Sampling and Collection Standard Operating Procedure.

Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

µg/L: Micrograms per liter (=ppb)

MDL: Method Detection Limit

ND: Not Detected at the PQL (or MDL, if shown)

E: Analysis performed by External Laboratory; see Report attachments

J: Result is < PQL but ≥ MDL; the concentration is an approximate value.

MPN: Most Probable Number

PQL: Practical Quantitation Limit

MCL: Maximum Contamination Level

H: Analyzed outside of method hold time

QC: Quality Control

Quality Control Explanation:

Method Blank: Prepared to verify that the preparation process is not contributing contamination to the samples.

LCS/LCSD: Laboratory Control Standard/Sample (Duplicate) - Used to verify that the analytical method is meeting specifications.

CCVB: Continuing Calibration Verification Blank - sample containing no analyte of interest, used to monitor for potential contamination or system drift during analysis.

QCS: Quality Control Sample - A second source standard used to to help verify the accuracy of calibration standards and over-all method performance.

MS: Matrix Spike - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. Used to calculated RPD and analysis precision.

RPD Relative Percent Difference - Is an indication of precision for the preparation and analysis and is used to assess the consistency and reliability of analytical results.

LFB/LFBD: Laboratory Fortified Blank (Duplicate) - is a quality control matrix-matched blank used in analytical chemistry to assess the accuracy of a laboratory's digestion process. Prepared to verify that the preparation process is not affecting analyte recovery.

LCSL: Laboratory Control Standard/Sample (Low) - a quality control measure specifically designed to evaluate the performance of an analytical method at the reporting limit (RL).

GGA: Glucose-Glutamic Acid (GGA) - solution is used in Biochemical Oxygen Demand (BOD) testing as a quality control check to ensure the accuracy and validity of the test results.

IPC: Initial Performance Check - Its purpose is to ensure that the analytical instrument is functioning properly before or during the analysis of samples.

MBAS Order ID: 250205-061

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Chain of Custody / Analysis Request

4 Justin Court, Suite D, Monterey, CA 93940
 (831) 375-MBAS (6227) * Fax: (831) 641-0734
info@mbasinc.com www.MBASinc.com

Requested Analysis

- *LAB USE ONLY***
- DW WW Soil
 Other _____
 - Is there evidence of chilling? Y / N
N/A < 2hrs
 - Adequate sample volume? Y / N
 - Was the sample filtered? Y / N
 - Did bottles agree with the COC? Y / N
- IR Used:

Client / Company Name: County of Santa Cruz Water Quality Lab	Attention: Emily Donham	Email Address(es) to Send Report/Invoice: WaterQuality@santacruzcountyca.gov	Phone Number: 831-454-4066
Project/System Info: Vistra Battery Fire Investigation	System ID: *Required for EDT*	Billing Address: 701 Ocean St Room 312 Santa Cruz CA 95060	Contract/P.O. #: 25B02767

Mark if YES: For Regulatory Reporting? Requires EDT?

MBAS Lab #	Source Code or Client Sample ID <i>*Required for EDT*</i>	Sample Description	Sample Collection		Receiving Temp (°C)	Coliform Analysis					Container			Metals (Co, Ni, Mn, Li)	Preservative (include pH) Initials:				
			Date	Time		CL2 Residual (mg/L)	Routine	Other	Repeat	Special	# Cont.	Type*	Size		HNO3	H2SO4	NaOH	HCl	Na2S2O3
01	167765 4-1	Watsonville Sloughs (STRUUV22) sample	01/31/25	12:53	4.5							P	500mL	✓					
02	167773 4C-1	Watsonville Sloughs (STRUUV22) control	01/31/25	12:52	5.3							P	500mL	✓					
03	167773 4C-2	Watsonville Sloughs (STRUUV22) control	01/31/25	12:51	2.7							P	500mL	✓					
04	167773 4C-3	Watsonville Sloughs (STRUUV22) control	01/31/25	12:50	3.9							P	500mL	✓					
05	167768 7-1	Watsonville Sloughs (STRUUV23) sample	01/31/25	14:22	2.7							P	500mL	✓					
06	167768 7-2	Watsonville Sloughs (STRUUV23) sample	01/31/25	14:23	2.4							P	500mL	✓					
07	167768 7-3	Watsonville Sloughs (STRUUV23) sample	01/31/25	14:24	2.4							P	500mL	✓					
08	167776 7C-1	Watsonville Sloughs (STRUUV23) control	01/31/25	14:25	6.2							P	500mL	✓					
09	167776 7C-2	Watsonville Sloughs (STRUUV23) control	01/31/25	14:26	6.5							P	500mL	✓					
10	167776 7C-3	Watsonville Sloughs (STRUUV23) control	01/31/25	14:27	4.6							P	500mL	✓					

Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by: Clare Dominik	<i>[Signature]</i>	2/5/25	10:24	expedite if possible
Received by: <i>[Signature]</i>	<i>[Signature]</i>	2/5/25	12:15	
Relinquished by:				
Received by: Sean R. OCT	<i>[Signature]</i>	2/5/25	15:05	

Payment Received Check #: Amount: *Container Type: P=Plastic, G=Glass, V=Various Date:

MBAS Order ID: 250205-061

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Chain of Custody / Analysis Request

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Requested Analysis

LAB USE ONLY

1. DW WW Soil
 Other _____

2. Is there evidence of chilling? Y/N
 N/A < 2hrs

3. Adequate sample volume? Y/N

4. Was the sample filtered? Y/N

5. Did bottles agree with the COC? Y/N

IR Used: _____

Client / Company Name: County of Santa Cruz Water Quality Lab	Attention: Emily Donham	Email Address(es) to Send Report/Invoice: WaterQuality@santacruzcountyca.gov	Phone Number: 831-454-4066
Project/System Info: Vistra Battery Fire Investigation	System ID: *Required for EDT*	Billing Address: 701 Ocean St Room 312 Santa Cruz CA 95060	Contract/P.O. #: 25B02767

Mark if YES: For Regulatory Reporting? Requires EDT?

MBAS Lab #	Source Code or Client Sample ID <i>*Required for EDT*</i>	Sample Description	Sample Collection		Receiving Temp (°C)	Coliform Analysis					Container			Metals (Co, Ni, Mn, Li)	Preservative (include pH) Initials:				
			Date	Time		CL2 Residual (mg/L)	Routine	Other	Repeat	Special	# Cont.	Type*	Size		HNO3	H2SO4	NaOH	HCl	Na2S2O3
11	167765 4-2	Watsonville Sloughs (STRU22) sample	01/31/25	12:54	4.9							P	500mL	✓					
12	167765 4-3	Watsonville Sloughs (STRU22) sample	01/31/25	12:55	4.5							P	500mL	✓					
13	167770 1C-1	Pinto Lake at County Dock (PL16) control	01/31/25	11:36	4.0							P	500mL	✓					
14	167770 1C-2	Pinto Lake at County Dock (PL16) control	01/31/25	11:37	5.0							P	500mL	✓					
15	167762 1-1	Pinto Lake at County Dock (PL16) sample	01/31/25	11:38	5.3							P	500mL	✓					
16	167762 1-1	Pinto Lake at County Dock (PL16) sample	01/31/25	11:39	5.0							P	500mL	✓					
17	167762 1-1	Pinto Lake at County Dock (PL16) sample	01/31/25	11:40	6.0							P	500mL	✓					
												P	500mL	✓					
												P	500mL	✓					
												P	500mL	✓					

	Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by:	Clare Dominik	<i>[Signature]</i>	2/5/25	10:24	expedite if possible -16 says 1-2 on bag -17 says 1-3 on bag
Received by:	Rayan Mander	<i>[Signature]</i>	2/5/25	12:15	
Relinquished by:					
Received by:	Sean Rilt	<i>[Signature]</i>	2-5-25	1:05	

Payment Received Check #: _____ Amount: _____ Date: _____

*Container Type: P=Plastic, G=Glass, V=Various



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2502416

Report Created for: Monterey Bay Analytical

4 Justin Court, Suite D
Monterey, CA 93940

Project Contact: Info Department Email

Project P.O.:

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Project Location:

Project Received: 02/06/2025

Analytical Report reviewed & approved for release on 02/13/2025 by:

Jena Alfaro

Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated in a case narrative.





Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical

WorkOrder: 2502416

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: Monterey Bay Analytical

WorkOrder: 2502416

Project: County of Santa Cruz Water Quality Lab EH-WQLab

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	"Too Numerous to Count;" greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.



Analytical Report

Client: Monterey Bay Analytical **WorkOrder:** 2502416
Date Received: 02/06/2025 10:05 **Extraction Method:** SW3050B
Date Prepared: 02/06/2025-02/10/2025 **Analytical Method:** SW6020
Project: County of Santa Cruz Water Quality Lab EH- **Unit:** mg/kg
 WQLab

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-01	2502416-001A	Sludge	01/31/2025 12:53	ICP-MS5 198SMPL.d	310910

Analytes	Result	MDL	RL	DF	Date Analyzed
Cobalt	6.4	0.052	0.50	1	02/07/2025 16:17
Lithium	5.8	0.80	5.0	1	02/07/2025 16:17
Nickel	26	0.25	0.50	1	02/07/2025 16:17

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-02	2502416-002A	Sludge	01/31/2025 12:52	ICP-MS5 199SMPL.d	310910

Analytes	Result	MDL	RL	DF	Date Analyzed
Cobalt	11	0.052	0.50	1	02/07/2025 16:21
Lithium	5.5	0.80	5.0	1	02/07/2025 16:21
Nickel	32	0.25	0.50	1	02/07/2025 16:21

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-03	2502416-003A	Sludge	01/31/2025 12:51	ICP-MS5 200SMPL.d	310910

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Cobalt	19		0.052	0.50	1	02/07/2025 16:24
Lithium	3.7	J	0.80	5.0	1	02/07/2025 16:24
Nickel	31		0.25	0.50	1	02/07/2025 16:24

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): DB

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6020
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-04	2502416-004A	Sludge	01/31/2025 12:50	ICP-MS5 218SMPL.d	310910
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	5.8	0.052	0.50	1	02/07/2025 17:30
Lithium	5.4	0.80	5.0	1	02/07/2025 17:30
Nickel	26	0.25	0.50	1	02/07/2025 17:30
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	108		70-130		02/07/2025 17:30
<u>Analyst(s):</u> DB					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-05	2502416-005A	Sludge	01/31/2025 14:22	ICP-MS5 181SMPL.d	310910
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	11	0.052	0.50	1	02/07/2025 15:15
Lithium	19	0.80	5.0	1	02/07/2025 15:15
Nickel	69	0.25	0.50	1	02/07/2025 15:15
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	109		70-130		02/07/2025 15:15
<u>Analyst(s):</u> AL					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-06	2502416-006A	Sludge	01/31/2025 14:23	ICP-MS5 184SMPL.d	310910
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	7.6	0.052	0.50	1	02/07/2025 15:26
Lithium	9.2	0.80	5.0	1	02/07/2025 15:26
Nickel	37	0.25	0.50	1	02/07/2025 15:26
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	105		70-130		02/07/2025 15:26
<u>Analyst(s):</u> AL					

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Analytical Report

Client: Monterey Bay Analytical **WorkOrder:** 2502416
Date Received: 02/06/2025 10:05 **Extraction Method:** SW3050B
Date Prepared: 02/06/2025-02/10/2025 **Analytical Method:** SW6020
Project: County of Santa Cruz Water Quality Lab EH- **Unit:** mg/kg
 WQLab

Metals

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-07	2502416-007A	Sludge	01/31/2025 14:24			ICP-MS5 185SMPL.d	310910
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Cobalt	2.7		0.052	0.50	1	02/07/2025 15:30	
Lithium	2.2	J	0.80	5.0	1	02/07/2025 15:30	
Nickel	12		0.25	0.50	1	02/07/2025 15:30	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Terbium	110			70-130		02/07/2025 15:30	
Analyst(s): AL							

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-08	2502416-008A	Sludge	01/31/2025 14:25			ICP-MS5 186SMPL.d	310910
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Cobalt	8.7		0.052	0.50	1	02/07/2025 15:33	
Lithium	14		0.80	5.0	1	02/07/2025 15:33	
Nickel	51		0.25	0.50	1	02/07/2025 15:33	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Terbium	108			70-130		02/07/2025 15:33	
Analyst(s): AL							

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-09	2502416-009A	Sludge	01/31/2025 14:26			ICP-MS5 187SMPL.d	310910
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Cobalt	7.3		0.052	0.50	1	02/07/2025 15:37	
Lithium	11		0.80	5.0	1	02/07/2025 15:37	
Nickel	43		0.25	0.50	1	02/07/2025 15:37	
<u>Surrogates</u>	<u>REC (%)</u>			<u>Limits</u>			
Terbium	103			70-130		02/07/2025 15:37	
Analyst(s): AL							

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6020
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-10	2502416-010A	Sludge	01/31/2025 14:27	ICP-MS5 188SMPL.d	310910	
<u>Analytes</u>						
	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	3.7		0.052	0.50	1	02/07/2025 15:41
Lithium	4.6	J	0.80	5.0	1	02/07/2025 15:41
Nickel	19		0.25	0.50	1	02/07/2025 15:41
<u>Surrogates</u>						
	<u>REC (%)</u>			<u>Limits</u>		
Terbium	111			70-130		02/07/2025 15:41
<u>Analyst(s):</u> AL						

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-11	2502416-011A	Sludge	01/31/2025 12:54	ICP-MS5 189SMPL.d	310910	
<u>Analytes</u>						
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	11		0.052	0.50	1	02/07/2025 15:44
Lithium	5.9		0.80	5.0	1	02/07/2025 15:44
Nickel	32		0.25	0.50	1	02/07/2025 15:44
<u>Surrogates</u>						
	<u>REC (%)</u>			<u>Limits</u>		
Terbium	106			70-130		02/07/2025 15:44
<u>Analyst(s):</u> AL						

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-12	2502416-012A	Sludge	01/31/2025 12:55	ICP-MS5 190SMPL.d	310910	
<u>Analytes</u>						
	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	5.5		0.052	0.50	1	02/07/2025 15:48
Lithium	4.5	J	0.80	5.0	1	02/07/2025 15:48
Nickel	21		0.25	0.50	1	02/07/2025 15:48
<u>Surrogates</u>						
	<u>REC (%)</u>			<u>Limits</u>		
Terbium	106			70-130		02/07/2025 15:48
<u>Analyst(s):</u> AL						

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Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6020
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-13	2502416-013A	Sludge	01/31/2025 11:36	ICP-MS5 191SMPL.d	310910	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	3.4		0.052	0.50	1	02/07/2025 15:52
Lithium	3.5	J	0.80	5.0	1	02/07/2025 15:52
Nickel	25		0.25	0.50	1	02/07/2025 15:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	108		70-130			02/07/2025 15:52
<u>Analyst(s):</u> AL						

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-14	2502416-014A	Sludge	01/31/2025 11:37	ICP-MS5 119SMPL.d	311053	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	4.6		0.052	0.50	1	02/11/2025 13:52
Lithium	3.4	J	0.80	5.0	1	02/11/2025 13:52
Nickel	5.8		0.25	0.50	1	02/11/2025 13:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	103		70-130			02/11/2025 13:52
<u>Analyst(s):</u> MIG						

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
250205_061-15	2502416-015A	Sludge	01/31/2025 11:38	ICP-MS5 192SMPL.d	310910	
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Cobalt	1.3		0.052	0.50	1	02/07/2025 15:55
Lithium	ND		0.80	5.0	1	02/07/2025 15:55
Nickel	6.7		0.25	0.50	1	02/07/2025 15:55
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	106		70-130			02/07/2025 15:55
<u>Analyst(s):</u> AL						

(Cont.)

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Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6020
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-16	2502416-016A	Sludge	01/31/2025 11:39	ICP-MS5 193SMPL.d	310910

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Cobalt	4.6		0.052	0.50	1	02/07/2025 15:59
Lithium	1.8	J	0.80	5.0	1	02/07/2025 15:59
Nickel	9.3		0.25	0.50	1	02/07/2025 15:59

Surrogates	REC (%)	Limits
Terbium	108	70-130

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-17	2502416-017A	Sludge	01/31/2025 11:40	ICP-MS5 120SMPL.d	311053

Analytes	Result	MDL	RL	DF	Date Analyzed
Cobalt	1.9	0.052	0.50	1	02/11/2025 13:56
Lithium	ND	0.80	5.0	1	02/11/2025 13:56
Nickel	3.6	0.25	0.50	1	02/11/2025 13:56

Surrogates	REC (%)	Limits
Terbium	105	70-130

Analyst(s): MIG



Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6010B
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-01	2502416-001A	Sludge	01/31/2025 12:53	ICP-OES 11	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	120	3.0	50	1	02/07/2025 14:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	113		70-130		02/07/2025 14:02
<u>Analyst(s):</u> WV					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-02	2502416-002A	Sludge	01/31/2025 12:52	ICP-OES 12	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	170	3.0	50	1	02/07/2025 14:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	113		70-130		02/07/2025 14:05
<u>Analyst(s):</u> WV					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-03	2502416-003A	Sludge	01/31/2025 12:51	ICP-OES 15	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	490	3.0	50	1	02/07/2025 14:14
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	108		70-130		02/07/2025 14:14
<u>Analyst(s):</u> WV					



Analytical Report

Client: Monterey Bay Analytical **WorkOrder:** 2502416
Date Received: 02/06/2025 10:05 **Extraction Method:** SW3050B
Date Prepared: 02/06/2025-02/10/2025 **Analytical Method:** SW6010B
Project: County of Santa Cruz Water Quality Lab EH-
 WQLab **Unit:** mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-04	2502416-004A	Sludge	01/31/2025 12:50	ICP-OES 16	310931

Analytes	Result	MDL	RL	DF	Date Analyzed
Manganese	110	3.0	50	1	02/07/2025 14:17

Surrogates	REC (%)	Limits
Terbium	115	70-130

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-05	2502416-005A	Sludge	01/31/2025 14:22	ICP-OES 17	310931

Analytes	Result	MDL	RL	DF	Date Analyzed
Manganese	520	3.0	50	1	02/07/2025 14:20

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-06	2502416-006A	Sludge	01/31/2025 14:23	ICP-OES 18	310931

Analytes	Result	MDL	RL	DF	Date Analyzed
Manganese	580	3.0	50	1	02/07/2025 14:23

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): WV

(Cont.)

NELAP 4033ORELAP



Analytical Report

Client: Monterey Bay Analytical **WorkOrder:** 2502416
Date Received: 02/06/2025 10:05 **Extraction Method:** SW3050B
Date Prepared: 02/06/2025-02/10/2025 **Analytical Method:** SW6010B
Project: County of Santa Cruz Water Quality Lab EH-
 WQLab **Unit:** mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-07	2502416-007A	Sludge	01/31/2025 14:24			ICP-OES 19	310931
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Manganese	240		3.0	50	1	02/07/2025 14:26	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Terbium	110		70-130			02/07/2025 14:26	
<u>Analyst(s):</u> WV							

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-08	2502416-008A	Sludge	01/31/2025 14:25			ICP-OES 20	310931
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Manganese	410		3.0	50	1	02/07/2025 14:29	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Terbium	108		70-130			02/07/2025 14:29	
<u>Analyst(s):</u> WV							

Client ID	Lab ID	Matrix	Date Collected			Instrument	Batch ID
250205_061-09	2502416-009A	Sludge	01/31/2025 14:26			ICP-OES 21	310931
<u>Analytes</u>	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>	
Manganese	380		3.0	50	1	02/07/2025 14:32	
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>				
Terbium	108		70-130			02/07/2025 14:32	
<u>Analyst(s):</u> WV							



Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6010B
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-10	2502416-010A	Sludge	01/31/2025 14:27	ICP-OES 22	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	150	3.0	50	1	02/07/2025 14:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	110		70-130		02/07/2025 14:34
<u>Analyst(s):</u> WV					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-11	2502416-011A	Sludge	01/31/2025 12:54	ICP-OES 23	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	460	3.0	50	1	02/07/2025 14:37
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	112		70-130		02/07/2025 14:37
<u>Analyst(s):</u> WV					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-12	2502416-012A	Sludge	01/31/2025 12:55	ICP-OES 24	310931
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Manganese	160	3.0	50	1	02/07/2025 14:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	107		70-130		02/07/2025 14:40
<u>Analyst(s):</u> WV					



Analytical Report

Client: Monterey Bay Analytical **WorkOrder:** 2502416
Date Received: 02/06/2025 10:05 **Extraction Method:** SW3050B
Date Prepared: 02/06/2025-02/10/2025 **Analytical Method:** SW6010B
Project: County of Santa Cruz Water Quality Lab EH- **Unit:** mg/kg
 WQLab

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-13	2502416-013A	Sludge	01/31/2025 11:36	ICP-OES 27	310931

Analytes	Result	MDL	RL	DF	Date Analyzed
Manganese	72	3.0	50	1	02/07/2025 14:49

Surrogates	REC (%)	Limits
Terbium	110	70-130

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-14	2502416-014A	Sludge	01/31/2025 11:37	ICP-OES 47	310967

Analytes	Result	MDL	RL	DF	Date Analyzed
Manganese	180	3.0	50	1	02/11/2025 13:44

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-15	2502416-015A	Sludge	01/31/2025 11:38	ICP-OES 26	310934

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Manganese	43	J	3.0	50	1	02/07/2025 12:37

Surrogates	REC (%)	Limits
Terbium	106	70-130

Analyst(s): WV

(Cont.)

NELAP 40330RELAP



Analytical Report

Client:	Monterey Bay Analytical	WorkOrder:	2502416
Date Received:	02/06/2025 10:05	Extraction Method:	SW3050B
Date Prepared:	02/06/2025-02/10/2025	Analytical Method:	SW6010B
Project:	County of Santa Cruz Water Quality Lab EH-WQLab	Unit:	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-16	2502416-016A	Sludge	01/31/2025 11:39	ICP-OES 28	310934
<u>Analytes</u>					
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>
Manganese	160		3.0	50	1
<u>Date Analyzed</u>					
02/07/2025 14:52					
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
Terbium	112		70-130		
<u>Date Analyzed</u>					
02/07/2025 14:52					
<u>Analyst(s):</u> WV					

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
250205_061-17	2502416-017A	Sludge	01/31/2025 11:40	ICP-OES 48	310967
<u>Analytes</u>					
	<u>Result</u>		<u>MDL</u>	<u>RL</u>	<u>DF</u>
Manganese	100		3.0	50	1
<u>Date Analyzed</u>					
02/11/2025 13:47					
<u>Surrogates</u>					
	<u>REC (%)</u>		<u>Limits</u>		
Terbium	111		70-130		
<u>Date Analyzed</u>					
02/11/2025 13:47					
<u>Analyst(s):</u> WV					



Quality Control Report

Client: Monterey Bay Analytical	WorkOrder: 2502416
Date Prepared: 02/06/2025	BatchID: 310910
Date Analyzed: 02/07/2025	Extraction Method: SW3050B
Instrument: ICP-MS5	Analytical Method: SW6020
Matrix: Soil	Unit: mg/kg
Project: County of Santa Cruz Water Quality Lab EH-WQLab	Sample ID: MB/LCS/LCSD-310910

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Cobalt	ND	0.052	0.50	-	-	-
Lithium	ND	0.80	5.0	-	-	-
Nickel	ND	0.25	0.50	-	-	-
Surrogate Recovery						
Terbium	560			500	111	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Cobalt	54	54	50	108	107	75-125	0.478	20
Lithium	53	52	50	106	104	75-125	1.76	20
Nickel	53	53	50	106	106	75-125	0.167	20
Surrogate Recovery								
Terbium	540	560	500	107	112	70-130	3.95	20



Quality Control Report

Client: Monterey Bay Analytical	WorkOrder: 2502416
Date Prepared: 02/10/2025	BatchID: 311053
Date Analyzed: 02/10/2025	Extraction Method: SW3050B
Instrument: ICP-MS5	Analytical Method: SW6020
Matrix: Soil	Unit: mg/kg
Project: County of Santa Cruz Water Quality Lab EH-WQLab	Sample ID: MB/LCS/LCSD-311053

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Cobalt	ND	0.052	0.50	-	-	-
Lithium	ND	0.80	5.0	-	-	-
Nickel	ND	0.25	0.50	-	-	-
Surrogate Recovery						
Terbium	520			500	104	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Cobalt	51	49	50	102	99	75-125	3.58	20
Lithium	51	49	50	103	99	75-125	3.77	20
Nickel	50	48	50	100	97	75-125	2.63	20
Surrogate Recovery								
Terbium	510	490	500	101	98	70-130	3.48	20



Quality Control Report

Client: Monterey Bay Analytical	WorkOrder: 2502416
Date Prepared: 02/06/2025	BatchID: 310931
Date Analyzed: 02/07/2025	Extraction Method: SW3050B
Instrument: ICP-OES	Analytical Method: SW6010B
Matrix: Soil	Unit: mg/kg
Project: County of Santa Cruz Water Quality Lab EH-WQLab	Sample ID: MB/LCS/LCSD-310931

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Manganese	ND	3.0	50	-	-	-
Surrogate Recovery						
Terbium	550			500	110	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Manganese	2500	2600	2500	100	104	75-125	3.64	20
Surrogate Recovery								
Terbium	530	550	500	106	110	70-130	4.28	20



Quality Control Report

Client: Monterey Bay Analytical	WorkOrder: 2502416
Date Prepared: 02/06/2025	BatchID: 310934
Date Analyzed: 02/07/2025	Extraction Method: SW3050B
Instrument: ICP-OES	Analytical Method: SW6010B
Matrix: Soil	Unit: mg/kg
Project: County of Santa Cruz Water Quality Lab EH-WQLab	Sample ID: MB/LCS/LCSD-310934 2502416-015AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Manganese	ND	3.0	50	-	-	-
Surrogate Recovery						
Terbium	550			500	110	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Manganese	2600	2800	2500	104	111	75-125	6.04	20
Surrogate Recovery								
Terbium	550	600	500	111	119	70-130	7.26	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Manganese	1	2600	2600	2500	ND	104	103	75-125	1.34	20
Surrogate Recovery										
Terbium	1	550	560	500		109	112	70-130	2.27	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Manganese	ND	ND	-	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.



Quality Control Report

Client: Monterey Bay Analytical	WorkOrder: 2502416
Date Prepared: 02/10/2025	BatchID: 310967
Date Analyzed: 02/11/2025 - 02/12/2025	Extraction Method: SW3050B
Instrument: ICP-OES	Analytical Method: SW6010B
Matrix: Soil	Unit: mg/kg
Project: County of Santa Cruz Water Quality Lab EH-WQLab	Sample ID: MB/LCS/LCSD-310967

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Manganese	ND	3.0	50	-	-	-
Surrogate Recovery						
Terbium	520			500	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Manganese	2600	2500	2500	103	101	75-125	1.59	20
Surrogate Recovery								
Terbium	550	550	500	109	110	70-130	0.610	20



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2502416

ClientCode: MBAS

- WaterTrax
 CLIP
 EDF
 EQUIS
 Dry-Weight
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Excel [Region2_MBAS_J]

Report to:

Info Department Email
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: info@mbasinc.com
cc/3rd Party:
PO:
Project: County of Santa Cruz Water Quality Lab
EH-WQLab

Bill to:

Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 5 days;

Date Received: 02/06/2025

Date Logged: 02/06/2025

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2502416-001	250205_061-01	Sludge	1/31/2025 12:53	<input type="checkbox"/>	A	A	A									
2502416-002	250205_061-02	Sludge	1/31/2025 12:52	<input type="checkbox"/>	A	A	A									
2502416-003	250205_061-03	Sludge	1/31/2025 12:51	<input type="checkbox"/>	A	A	A									
2502416-004	250205_061-04	Sludge	1/31/2025 12:50	<input type="checkbox"/>	A	A	A									
2502416-005	250205_061-05	Sludge	1/31/2025 14:22	<input type="checkbox"/>	A	A	A									
2502416-006	250205_061-06	Sludge	1/31/2025 14:23	<input type="checkbox"/>	A	A	A									
2502416-007	250205_061-07	Sludge	1/31/2025 14:24	<input type="checkbox"/>	A	A	A									
2502416-008	250205_061-08	Sludge	1/31/2025 14:25	<input type="checkbox"/>	A	A	A									
2502416-009	250205_061-09	Sludge	1/31/2025 14:26	<input type="checkbox"/>	A	A	A									
2502416-010	250205_061-10	Sludge	1/31/2025 14:27	<input type="checkbox"/>	A	A	A									
2502416-011	250205_061-11	Sludge	1/31/2025 12:54	<input type="checkbox"/>	A	A	A									
2502416-012	250205_061-12	Sludge	1/31/2025 12:55	<input type="checkbox"/>	A	A	A									
2502416-013	250205_061-13	Sludge	1/31/2025 11:36	<input type="checkbox"/>	A	A	A									
2502416-014	250205_061-14	Sludge	1/31/2025 11:37	<input type="checkbox"/>	A	A	A									
2502416-015	250205_061-15	Sludge	1/31/2025 11:38	<input type="checkbox"/>	A	A	A									

Test Legend:

1	METALS_TTLC_S	2	METALSMS_TTLC_S	3	PRDisposal Fee	4	
5		6		7		8	
9		10		11		12	

Project Manager: Jennifer Lagerbom

Prepared by: Agustina Venegas

Comments: Workorder with Region II EDD needs J-Flag.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2502416

ClientCode: MBAS

- WaterTrax
 CLIP
 EDF
 EQuIS
 Dry-Weight
 Email
 HardCopy
 ThirdParty
 J-flag
 Detection Summary
 Excel [Region2_MBAS_J]

Report to:

Info Department Email
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940
831-375-6227 FAX: 831-641-0734

Email: info@mbasinc.com
cc/3rd Party:
PO:
Project: County of Santa Cruz Water Quality Lab
EH-WQLab

Bill to:

Accounts Payable
Monterey Bay Analytical
4 Justin Court, Suite D
Monterey, CA 93940

Requested TAT: 5 days;

Date Received: 02/06/2025
Date Logged: 02/06/2025

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2502416-016	250205_061-16	Sludge	1/31/2025 11:39	<input type="checkbox"/>	A	A	A									
2502416-017	250205_061-17	Sludge	1/31/2025 11:40	<input type="checkbox"/>	A	A	A									

Test Legend:

1	METALS_TTLC_S	2	METALSMS_TTLC_S	3	PRDisposal Fee	4	
5		6		7		8	
9		10		11		12	

Project Manager: Jennifer Lagerbom

Prepared by: Agustina Venegas

Comments: Workorder with Region II EDD needs J-Flag.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Work Order: 2502416

Client Contact: Info Department Email

QC Level: LEVEL 2

Contact's Email: info@mbasinc.com

Comments: Workorder with Region II EDD needs J-Flag.

Date Logged: 2/6/2025

WaterTrax CLIP EDF Excel EQUIS Email HardCopy ThirdParty J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	250205_061-01	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:53	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
002A	250205_061-02	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:52	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
003A	250205_061-03	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:51	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
004A	250205_061-04	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:50	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
005A	250205_061-05	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:22	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Work Order: 2502416

Client Contact: Info Department Email

QC Level: LEVEL 2

Contact's Email: info@mbasinc.com

Comments: Workorder with Region II EDD needs J-Flag.

Date Logged: 2/6/2025

WaterTrax CLIP EDF Excel EQUIS Email HardCopy ThirdParty J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
006A	250205_061-06	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:23	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
007A	250205_061-07	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:24	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
008A	250205_061-08	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:25	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
009A	250205_061-09	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:26	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
010A	250205_061-10	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 14:27	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.
- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.
- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Work Order: 2502416

Client Contact: Info Department Email

QC Level: LEVEL 2

Contact's Email: info@mbasinc.com

Comments: Workorder with Region II EDD needs J-Flag.

Date Logged: 2/6/2025

WaterTrax CLIP EDF Excel EQUIS Email HardCopy ThirdParty J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
011A	250205_061-11	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:54	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
012A	250205_061-12	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 12:55	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
013A	250205_061-13	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 11:36	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
014A	250205_061-14	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 11:37	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
015A	250205_061-15	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 11:38	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.
- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.
- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



WORK ORDER SUMMARY

Client Name: MONTEREY BAY ANALYTICAL

Project: County of Santa Cruz Water Quality Lab EH-WQLab

Work Order: 2502416

Client Contact: Info Department Email

QC Level: LEVEL 2

Contact's Email: info@mbasinc.com

Comments: Workorder with Region II EDD needs J-Flag.

Date Logged: 2/6/2025

WaterTrax CLIP EDF Excel EQUIS Email HardCopy ThirdParty J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
016A	250205_061-16	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 11:39	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		5 days	2/13/2025		<input type="checkbox"/>
017A	250205_061-17	Sludge	SW6020 (Metals) <Cobalt, Lithium, Nickel>	1	Plastic Baggie, Small	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/31/2025 11:40	5 days	2/13/2025		<input type="checkbox"/>	<input type="checkbox"/>
			SW6010B (Metals) <Manganese>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		5 days	2/13/2025		<input type="checkbox"/>

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

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2502414



MONTEREY BAY ANALYTICAL SERVICES
CELEBRATING 25 YEARS | 1999-2024

Please send Report and Invoice to:

4 Justin Court Suite D, Monterey, CA 93940

Email: info@mbasinc.com 831.375.MBAS (6227)

www.MBASinc.com

Subcontract Chain of Custody

Subcontractor Name: **ANALYTICAL, INC.**

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252 -9269

Customer Name: County of Santa Cruz Water Quality Lab EH-WQLab

Turn Around Time: Standard / RUSH

Project ID:

Sample Type: WW / DW / SaltWater / Ground / Soil

Please format report for MDL and J flag.

Report Type: EDT / Excel / GeoTracker / _____

Please include Region II EDD

Lab Number: 250205_061-01

System ID:

Collection Date/Time: 1/31/2025 12:53

Sample Collector: Dominik, C

Client Sample #: 167765 4-1

Sample Description: Watsonville Sloughs (STRUUV22) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-02

System ID:

Collection Date/Time: 1/31/2025 12:52

Sample Collector: Dominik, C

Client Sample #: 167773 4C-1

Sample Description: Watsonville Sloughs (STRUUV22) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-03

System ID:

Collection Date/Time: 1/31/2025 12:51

Sample Collector: Dominik, C

Client Sample #: 167773 4C-2

Sample Description: Watsonville Sloughs (STRUUV22) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

D-70 WQA
1R30

FED EX: 771902621703

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Subcontract Chain of Custody

Please send Report and Invoice to:

4 Justin Court Suite D, Monterey, CA 93940
Email: info@mbasinc.com 831.375.MBAS (6227)
www.MBASinc.com

Subcontractor Name: **MCCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252 -9269

Lab Number: 250205_061-04 System ID:
Collection Date/Time: 1/31/2025 12:50 Sample Collector: Dominik, C Client Sample #: 167773 4C-3

Sample Description: Watsonville Sloughs (STRU22) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-05 System ID:
Collection Date/Time: 1/31/2025 14:22 Sample Collector: Dominik, C Client Sample #: 167768 7-1

Sample Description: Watsonville Sloughs (STRU23) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-06 System ID:
Collection Date/Time: 1/31/2025 14:23 Sample Collector: Dominik, C Client Sample #: 167768 7-2

Sample Description: Watsonville Sloughs (STRU23) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:



MONTEREY BAY ANALYTICAL SERVICES
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Email: info@mbasinc.com 831.375.MBAS (6227)

www.MBASinc.com

Subcontract Chain of Custody

Subcontractor Name:
MCCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252-9269

Lab Number: 250205_061-07

System ID:

Collection Date/Time: 1/31/2025 14:24

Sample Collector: Dominik, C

Client Sample #: 167768 7-3

Sample Description: Watsonville Sloughs (STRUUV23) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-08

System ID:

Collection Date/Time: 1/31/2025 14:25

Sample Collector: Dominik, C

Client Sample #: 167776 7C-1

Sample Description: Watsonville Sloughs (STRUUV23) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-09

System ID:

Collection Date/Time: 1/31/2025 14:26

Sample Collector: Dominik, C

Client Sample #: 167776 7C-2

Sample Description: Watsonville Sloughs (STRUUV23) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:



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www.MBASinc.com

Subcontract Chain of Custody

Subcontractor Name:
MCCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252 -9269

Lab Number: 250205_061-10

System ID:

Collection Date/Time: 1/31/2025 14:27

Sample Collector: Dominik, C

Client Sample #: 167776 7C-3

Sample Description: Watsonville Sloughs (STRUV23) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-11

System ID:

Collection Date/Time: 1/31/2025 12:54

Sample Collector: Dominik, C

Client Sample #: 167765 4-2

Sample Description: Watsonville Sloughs (STRUV22) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-12

System ID:

Collection Date/Time: 1/31/2025 12:55

Sample Collector: Dominik, C

Client Sample #: 167765 4-3

Sample Description: Watsonville Sloughs (STRUV22) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:



MONTEREY BAY ANALYTICAL SERVICES
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www.MBASinc.com

Subcontract Chain of Custody

Subcontractor Name:
MONTEREY BAY ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252 -9269

Lab Number: 250205_061-13

System ID:

Collection Date/Time: 1/31/2025 11:36

Sample Collector: Dominik, C

Client Sample #: 167770 1C-1

Sample Description: Pinto Lake at County Dock (PL16) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-14

System ID:

Collection Date/Time: 1/31/2025 11:37

Sample Collector: Dominik, C

Client Sample #: 167770 1C-2

Sample Description: Pinto Lake at County Dock (PL16) Control

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-15

System ID:

Collection Date/Time: 1/31/2025 11:38

Sample Collector: Dominik, C

Client Sample #: 167762 1-1

Sample Description: Pinto Lake at County Dock (PL16) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

\$ 6 of 6 \$



MONTEREY BAY ANALYTICAL SERVICES
CELEBRATING 25 YEARS | 1999-2024

Subcontract Chain of Custody

Please send Report and Invoice to:

4 Justin Court Suite D, Monterey, CA 93940

Email: info@mbasinc.com 831.375.MBAS (6227)

www.MBASinc.com

Subcontractor Name: **McCAMPBELL ANALYTICAL, INC.**

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (877) 252-9262

Fax: (925) 252 -9269

Lab Number: 250205_061-16

System ID:

Collection Date/Time: 1/31/2025 11:39

Sample Collector: Dominik, C

Client Sample #: 167762 1-1

Sample Description: Pinto Lake at County Dock (PL16) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Lab Number: 250205_061-17

System ID:

Collection Date/Time: 1/31/2025 11:40

Sample Collector: Dominik, C

Client Sample #: 167762 1-1

Sample Description: Pinto Lake at County Dock (PL16) Sample

Analyte	Method	Sample type:	# of Bottles	Preservation
Manganese, Total	EPA200.7	Soil	1	No
Cobalt	EPA200.8	Soil	^	^
Lithium	EPA200.8	Soil	^	^
Nickel	External	Soil	^	^

Comments:

Relinquished by: MBAS

Date/Time: 2/5/25 7700

Received by: [Signature]

Date/Time: 2/6/25 1005A

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____



Sample Receipt Checklist

Client Name: Monterey Bay Analytical
 Project: County of Santa Cruz Water Quality Lab EH-WQLab
 WorkOrder No: 2502416 Matrix: Sludge
 Carrier: FedEx

Date and Time Received: 2/6/2025 10:05
 Date Logged: 2/6/2025
 Received by: Agustina Venegas
 Logged by: Agustina Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
COC agrees with Quote?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

Sample/Temp Blank temperature		Temp: 0.7°C	NA <input type="checkbox"/>
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

 Comments: