



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

ELAP Certification Number: 2385

Certificate of Analysis

May 22, 2023

Luke Somsel
M3 Environmental Consulting LLC
9821 Blue Larkspur Lane, Suite 100
Monterey, CA 93940

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 May 16, 2023
for order ID #: 230516_09

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

A handwritten signature in black ink, appearing to read "David Holland".

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

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS (6227)

www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

M3 Environmental Consulting LLC

Luke Somsel

9821 Blue Larkspur Lane, Suite 100

Monterey, CA 93940

Sample Results

Lab Number: 230516_09-01 **Sample Description: 32650 Johnson Canyon Rd, Kitchen Sink**

Collection Date/Time: 5/16/2023 9:52 Sample Collector: Somsel L Client Sample #:

Received Date/Time: 5/16/2023 11:06 System ID:

Analyte	Method	Unit	Result	Dilution	Qualifier	PQL	MCL	Analysis Date / Time	Analyst
Anion-Cation Balance	Calculation	%	1	1					
QC Anion Sum x 100	Calculation	%	99	1					
QC Cation Sum x 100	Calculation	%	101	1					
QC Ratio TDS/SEC	Calculation	NA	0.56	1				5/19/2023 13:00	BM
Turbidity	EPA180.1	NTU	ND	1		0.1	5	5/17/2023 14:50	BM
Calcium	EPA200.7	mg/L	78	1		1		5/19/2023 14:52	OW
Hardness (as CaCO ₃)	EPA200.7	mg/L	319	1		5		5/19/2023 16:56	OW
Iron, Total	EPA200.7	µg/L	ND	1		30	300	5/19/2023 14:52	OW
Magnesium	EPA200.7	mg/L	30.5	1		0.5		5/19/2023 14:52	OW
Manganese, Total	EPA200.7	µg/L	ND	1		15	50	5/19/2023 14:52	OW
Potassium	EPA200.7	mg/L	3.6	1		0.5		5/19/2023 14:52	OW
Sodium	EPA200.7	mg/L	78	1		1		5/19/2023 14:52	OW
Chloride	EPA300.0	mg/L	97.1	1		1	250	5/16/2023 14:18	HC
Fluoride	EPA300.0	mg/L	1.4	1		0.1	2	5/16/2023 14:18	HC
Nitrate as N	EPA300.0	mg/L	6.8	1		0.1	10	5/16/2023 14:18	HC
Nitrite as N	EPA300.0	mg/L	ND	1		0.1	1	5/16/2023 14:18	HC
Orthophosphate as P	EPA300.0	mg/L	ND	1		0.1		5/16/2023 14:18	HC
Sulfate	EPA300.0	mg/L	25	1		2	250	5/16/2023 14:18	HC
Alkalinity, Total (as CaCO ₃)	SM2320B	mg/L	294	1	IL	10		5/16/2023 15:36	BM
IL: RPD exceeds laboratory control limit.									
Langelier Index, 15°C	SM2330B	NA	0.04	1					
Langelier Index, 60°C	SM2330B	NA	0.86	1					
Specific Conductance (EC)	SM2510B	µmho/cm @25.0°C	972	1		10	900	5/16/2023 15:36	BM
Total Dissolved Solids	SM2540C	mg/L	546	1		10	500	5/17/2023 14:30	BM
pH (Laboratory)	SM4500-H+B	pH (H)	7.4	1		1	8.5	5/16/2023 15:36	BM
Temperature (pH)	SM4500-H+B,temp	°C	19.8	1				5/16/2023 15:36	BM

Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

MDL: Method Detection Limit PQL: Practical Quantitation Limit

E: Analysis performed by External Laboratory; see Report attachments

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

µg/L: Micrograms per liter (=ppb)

MCL: Maximum Contamination Level

H: Analyzed outside of method hold time

MPN: Most Probable Number

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

QC: Quality Control

M3 Environmental Consulting LLC

Luke Somsel

9821 Blue Larkspur Lane, Suite 100

Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS (6227)

www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limit
QC23051701	230515_32-03: Duplicate 1	Alkalinity, Total (as CaCO ₃)	280.6	mg/L		0.6	0 - 10
	230516_09-01: Duplicate 2	Alkalinity, Total (as CaCO ₃)	293.1	mg/L		0.5	0 - 10
	230516_43-01: Duplicate 3	Alkalinity, Total (as CaCO ₃)	259.1	mg/L		3.1	0 - 10
	CCVB 1	Alkalinity, Total (as CaCO ₃)	ND	mg/L			
	CCVB 2	Alkalinity, Total (as CaCO ₃)	ND	mg/L			
	CCVB 3	Alkalinity, Total (as CaCO ₃)	ND	mg/L			
	LCS 1	Alkalinity, Total (as CaCO ₃)	37.0	mg/L	92		92 - 108
	LCSD 1	Alkalinity, Total (as CaCO ₃)	41.2	mg/L	103	11.5	0 - 10
	LCSD2 1	Alkalinity, Total (as CaCO ₃)	41.8	mg/L	104	12.2	0 - 10
	LCSD3 1	Alkalinity, Total (as CaCO ₃)	38.7	mg/L	97	5.3	0 - 10
QC23051932	LCSD 1	Alkalinity, Total (as CaCO ₃)	9.4	mg/L	94		80 - 120
	Method Blank 1	Alkalinity, Total (as CaCO ₃)	ND	mg/L			
	230516_68-02: MS 1	Calcium	480.0	mg/L	86		70 - 130
	230516_68-02: MSD 1	Calcium	474.2	mg/L	74	1.2	0 - 20
	CCVB 1	Calcium	ND	mg/L			
	LCS 1	Calcium	49.4	mg/L	99		95 - 105
	LCSD 1	Calcium	48.5	mg/L	97	1.8	0 - 10
	Method Blank 1	Calcium	ND	mg/L			
	QCS 1	Calcium	48.4	mg/L	97		95 - 105
	230516_25-03: MS 1	Chloride	27.8	mg/L	97		80 - 120
QC23051715	230516_25-03: MSD 1	Chloride	27.9	mg/L	98	0.1	0 - 10
	CCVB 1	Chloride	ND	mg/L			
	LCS 1	Chloride	20.1	mg/L	101		90 - 110
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	LCSD 1	Chloride	19.8	mg/L	99	1.6	0 - 10
	Method Blank 1	Chloride	ND	mg/L			
	230516_25-03: MS 1	Fluoride	2.9	mg/L	102		80 - 120
	230516_25-03: MSD 1	Fluoride	2.9	mg/L	102	0.1	0 - 10
	CCVB 1	Fluoride	ND	mg/L			
	LCS 1	Fluoride	2.0	mg/L	101		90 - 110
	LCSD 1	Fluoride	2.0	mg/L	100	1.7	0 - 10

Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

µg/L: Micrograms per liter (=ppb)

MPN: Most Probable Number

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

MCL: Maximum Contamination Level

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

E: Analysis performed by External Laboratory; see Report attachments

H: Analyzed outside of method hold time

QC: Quality Control

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

M3 Environmental Consulting LLC

Luke Somsel

9821 Blue Larkspur Lane, Suite 100

Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS (6227)

www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limit
	LCSL 1	Fluoride	0.1	mg/L	69		50 - 150
	Method Blank 1	Fluoride	ND	mg/L			
QC23051932	230516_68-02: MS 1	Iron, Total	976.3	µg/L	96		70 - 130
	230516_68-02: MSD 1	Iron, Total	972.6	µg/L	96	0.4	0 - 20
	CCVB 1	Iron, Total	ND	µg/L			
	LCS 1	Iron, Total	995.6	µg/L	100		95 - 105
	LCSD 1	Iron, Total	1011.0	µg/L	101	1.6	0 - 10
	Method Blank 1	Iron, Total	ND	µg/L			
	QCS 1	Iron, Total	1000.0	µg/L	100		95 - 105
	230516_68-02: MS 1	Magnesium	228.5	mg/L	80		70 - 130
	230516_68-02: MSD 1	Magnesium	230.8	mg/L	84	1.0	0 - 20
	CCVB 1	Magnesium	ND	mg/L			
	LCS 1	Magnesium	50.4	mg/L	101		95 - 105
	LCSD 1	Magnesium	50.2	mg/L	100	0.6	0 - 10
	Method Blank 1	Magnesium	ND	mg/L			
	QCS 1	Magnesium	50.3	mg/L	101		95 - 105
	230516_68-02: MS 1	Manganese, Total	972.2	µg/L	97		70 - 130
	230516_68-02: MSD 1	Manganese, Total	979.7	µg/L	98	0.8	0 - 20
	CCVB 1	Manganese, Total	ND	µg/L			
	LCS 1	Manganese, Total	1015.0	µg/L	102		95 - 105
	LCSD 1	Manganese, Total	1024.0	µg/L	102	0.9	0 - 10
	Method Blank 1	Manganese, Total	ND	µg/L			
	QCS 1	Manganese, Total	976.3	µg/L	98		95 - 105
QC23051715	230516_25-03: MS 1	Nitrate as N	9.7	mg/L	97		80 - 120
	230516_25-03: MSD 1	Nitrate as N	9.8	mg/L	97	0.1	0 - 10
	CCVB 1	Nitrate as N	ND	mg/L			
	LCS 1	Nitrate as N	10.0	mg/L	100		90 - 110
	LCSD 1	Nitrate as N	9.9	mg/L	99	1.5	0 - 10
	LCSL 1	Nitrate as N	ND	mg/L	50		50 - 150
	Method Blank 1	Nitrate as N	ND	mg/L			
	230516_25-03: MS 1	Nitrite as N	2.0	mg/L	99		80 - 120

Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

µg/L: Micrograms per liter (=ppb)

MPN: Most Probable Number

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

MCL: Maximum Contamination Level

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

E: Analysis performed by External Laboratory; see Report attachments

H: Analyzed outside of method hold time

QC: Quality Control

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

M3 Environmental Consulting LLC

Luke Somsel

9821 Blue Larkspur Lane, Suite 100

Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS (6227)

www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limit
	230516_25-03: MSD 1	Nitrite as N	2.0	mg/L	100	0.2	0 - 10
	CCVB 1	Nitrite as N	ND	mg/L			
	LCS 1	Nitrite as N	1.9	mg/L	97		90 - 110
	LCSD 1	Nitrite as N	2.2	mg/L	110	13.2	0 - 10
	LCSL 1	Nitrite as N	0.1	mg/L	72		50 - 150
	Method Blank 1	Nitrite as N	ND	mg/L			
	230516_25-03: MS 1	Orthophosphate as P	0.9	mg/L	94		80 - 120
	230516_25-03: MSD 1	Orthophosphate as P	0.9	mg/L	94	0.5	0 - 10
	CCVB 1	Orthophosphate as P	ND	mg/L			
	LCS 1	Orthophosphate as P	1.0	mg/L	98		90 - 110
	LCSD 1	Orthophosphate as P	1.0	mg/L	101	2.8	0 - 10
	LCSL 1	Orthophosphate as P	0.1	mg/L	110		50 - 150
	Method Blank 1	Orthophosphate as P	ND	mg/L			
QC23051703	230516_09-01: Duplicate 1	pH (Laboratory)	7.4	pH (H)		0.2	0 - 5
	230516_43-01: Duplicate 2	pH (Laboratory)	7.4	pH (H)		0.0	0 - 5
	LCS 1	pH (Laboratory)	6.9	pH (H)	100		95 - 105
	LCSD 1	pH (Laboratory)	6.9	pH (H)	100	0.0	0 - 10
	LCSD2 1	pH (Laboratory)	6.8	pH (H)	100	0.1	0 - 10
QC23051932	230516_68-02: MS 1	Potassium	16.2	mg/L	98		70 - 130
	230516_68-02: MSD 1	Potassium	16.4	mg/L	100	1.1	0 - 20
	CCVB 1	Potassium	ND	mg/L			
	LCS 1	Potassium	10.0	mg/L	100		95 - 105
	LCSD 1	Potassium	10.0	mg/L	100	0.7	0 - 10
	Method Blank 1	Potassium	ND	mg/L			
	QCS 1	Potassium	9.9	mg/L	99		95 - 105
	230516_68-02: MS 1	Sodium	284.8	mg/L	79		70 - 130
	230516_68-02: MSD 1	Sodium	288.1	mg/L	86	1.1	0 - 20
	CCVB 1	Sodium	ND	mg/L			
	LCS 1	Sodium	50.0	mg/L	100		95 - 105
	LCSD 1	Sodium	49.4	mg/L	99	1.2	0 - 10
	Method Blank 1	Sodium	ND	mg/L			

Abbreviations/Definitions: mg/L: Milligrams per liter (=ppm)

MDL: Method Detection Limit PQL: Practical Quantitation Limit

E: Analysis performed by External Laboratory; see Report attachments

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

µg/L: Micrograms per liter (=ppb)

MCL: Maximum Contamination Level

H: Analyzed outside of method hold time

MPN: Most Probable Number

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

QC: Quality Control

M3 Environmental Consulting LLC

Luke Somsel

9821 Blue Larkspur Lane, Suite 100

Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940

831.375.MBAS (6227)

www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limit
	QCS 1	Sodium	50.2	mg/L	100		95 - 105
QC23051702	230515_32-03: Duplicate 1	Specific Conductance (EC)	1451.0	µmho/cm @25.0°C		0.3	0 - 25
	230516_09-01: Duplicate 2	Specific Conductance (EC)	970.0	µmho/cm @25.0°C		0.2	0 - 25
	230516_43-01: Duplicate 3	Specific Conductance (EC)	1304.0	µmho/cm @25.0°C		0.1	0 - 25
	LCS 1	Specific Conductance (EC)	1411.0	µmho/cm @25.0°C	100		80 - 120
	LCSD 1	Specific Conductance (EC)	1409.0	µmho/cm @25.0°C	100	0.1	0 - 5
	LCSD2 1	Specific Conductance (EC)	1407.0	µmho/cm @25.0°C	100	0.3	0 - 5
	LCSD3 1	Specific Conductance (EC)	1408.0	µmho/cm @25.0°C	100	0.2	0 - 5
	LCSH 1	Specific Conductance (EC)	24800.0	µmho/cm @25.0°C	100		80 - 120
	LCSL 1	Specific Conductance (EC)	146.0	µmho/cm @25.0°C	99		80 - 120
QC23051715	230516_25-03: MS 1	Sulfate	20.9	mg/L	97		80 - 120
	230516_25-03: MSD 1	Sulfate	20.9	mg/L	97	0.1	0 - 10
	CCVB 1	Sulfate	ND	mg/L			
	LCS 1	Sulfate	20.1	mg/L	101		90 - 110
	LCSD 1	Sulfate	19.8	mg/L	99	1.3	0 - 10
	LCSL 1	Sulfate	0.7	mg/L	73		50 - 150
	Method Blank 1	Sulfate	ND	mg/L			
QC23051925	230516_58-02: Duplicate 1	Total Dissolved Solids	12.0	mg/L		0.0	0 - 10
	230516_68-02: Duplicate 2	Total Dissolved Solids	3338.0	mg/L		2.0	0 - 10
	CCVB 1	Total Dissolved Solids	ND	mg/L			
	CCVB 2	Total Dissolved Solids	ND	mg/L			
	LCS 1	Total Dissolved Solids	500.0	mg/L	100		90 - 110
	LCSD 1	Total Dissolved Solids	490.0	mg/L	98	2.0	0 - 10
	LCSD2 1	Total Dissolved Solids	486.0	mg/L	97	2.8	0 - 10

Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

µg/L: Micrograms per liter (=ppb)

MPN: Most Probable Number

MDL: Method Detection Limit

PQL: Practical Quantitation Limit

MCL: Maximum Contamination Level

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

E: Analysis performed by External Laboratory; see Report attachments

H: Analyzed outside of method hold time

QC: Quality Control

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



M3 Environmental Consulting LLC
 Luke Somsel
 9821 Blue Larkspur Lane, Suite 100
 Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940
 831.375.MBAS (6227)
 www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Quality Control Results

QCBatch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limit
	LCSL 1	Total Dissolved Solids	50.0	mg/L	100		50 - 150
	Method Blank 1	Total Dissolved Solids	ND	mg/L			
QC23051802	230516_43-01: Duplicate 1	Turbidity	1.3	NTU		0.0	0 - 20
	CCVB 1	Turbidity	ND	NTU			
	LCS 1	Turbidity	1.0	NTU	98		95 - 105
	LCSD 1	Turbidity	1.0	NTU	100	1.7	0 - 20
	Method Blank 1	Turbidity	ND	NTU			

Abbreviations/Definitions:
 mg/L: Milligrams per liter (=ppm)
 MDL: Method Detection Limit
 PQL: Practical Quantitation Limit
 E: Analysis performed by External Laboratory; see Report attachments
 J: Result is < PQL but ≥ MDL; the concentration is an approximate value.

µg/L: Micrograms per liter (=ppb)
 MCL: Maximum Contamination Level
 H: Analyzed outside of method hold time
 MPN: Most Probable Number
 ND: Not Detected at the PQL (or MDL, if shown)
 QC: Quality Control



M3 Environmental Consulting LLC
Luke Somsel
9821 Blue Larkspur Lane, Suite 100
Monterey, CA 93940

4 Justin Court Suite D, Monterey, CA 93940
831.375.MBAS (6227)
www.MBASinc.com

ELAP Certification Number: 2385

Monday, May 22, 2023

Sample Condition Upon Receipt

Order ID: 230516_09

Is there evidence of chilling?

N/A (<2hrs)

*NOTE: Systems are encouraged but not required to hold samples
<10°C (Microbiology) or <6°C (Chemistry) during transit.

Did bottle arrive intact?

Yes

Did bottle labels agree with COC?

Yes

Adequate sample volume?

Yes

Abbreviations/Definitions:
mg/L: Milligrams per liter (=ppm)
MDL: Method Detection Limit
PQL: Practical Quantitation Limit
E: Analysis performed by External Laboratory; see Report attachments
J: Result is < PQL but ≥ MDL; the concentration is an approximate value.

µg/L: Micrograms per liter (=ppb)
MCL: Maximum Contamination Level
H: Analyzed outside of method hold time
MPN: Most Probable Number
ND: Not Detected at the PQL (or MDL, if shown)
QC: Quality Control

MBAS Order ID: 230516-09



Monterey Bay Analytical Services

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

Client / Company Name:		Attention:		Email Address(es) to Send Report/Invoice:		Phone Number:	
M3 Environmental, LLC		Luke Somsel		luke@m3environmental.com		831.649.4623	
Project/System Info:		System ID: *Required for EDT*		Billing Address:		Contract/ P.O. #:	
23286.0 - Fiduciary Real Estate Services 32650 Johnson Canyon Rd., Gonzales				9821 Blue Larkspur Lane, Suite 100 Monterey, CA 93940			
Mark if YES: For Regulatory Reporting? ☐		Requires EDT? ☐					

[illegible]

	Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by:	Luke Somsel		5/16/23	11:00	
Received by:	Cody Roberts		5/16/23	1104	
Relinquished by:					
Received by:					

☐ **Payment Received**

Check #:

Amount:

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

Date:

MBAS COC Rev. 3/20