DOCKETED	
Docket Number:	79-AFC-04C
Project Title:	Compliance - Application for Certification of DWR Bottlerock Geothermal Project
TN #:	262313
Document Title:	Appendix 3
Description:	Appendix 3
Filer:	John C Casteel
Organization:	Mayacma Geothermal LLC
Submitter Role:	Applicant
Submission Date:	3/24/2025 4:17:05 PM
Docketed Date:	3/24/2025

Appendix 3

Figure 1 - Vegetation Monitoring Map

Table 1 – Vegetation & Soil Boron Analytical Results

Vegetation & Soil Boron Analytical Reports

Figure 2 – Water Monitoring Map

Table 2 – Groundwater & Surface Water Analytical Results

Groundwater & Surface Water Analytical Reports

Bottle Rock Power, LLC - Vegetation Monitoring Locations

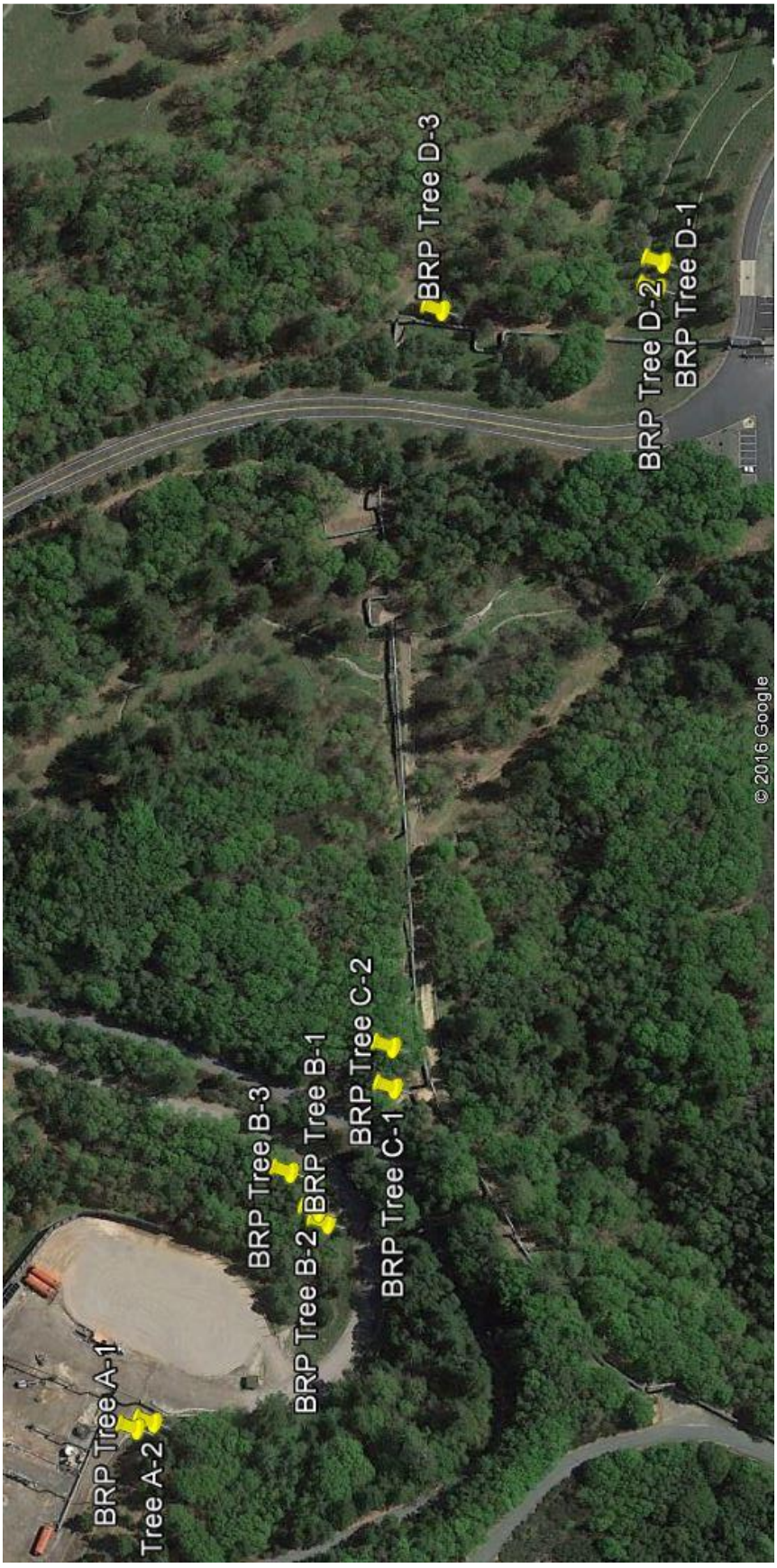

Table 1

Bottle Rock Power, LLC

2024 Vegetation Monitoring Data Needle & Soil Boron Analytical Results

Location ID	UTM Coordinates	Location Description	Sample Type	Boron (mg/kg)	Sample Type	Boron (mg/kg)
A-1	38.83734 -122.77257	Coleman Pad A3-a	Ponderosa Pine Needle	8.0	Base of Tree Soil	18
A-2	38.83729 -122.77255	Coleman Pad A3-b	Ponderosa Pine Needle	7.1	Base of Tree Soil	17
B-1	38.83675 -122.77177	West Coleman/Coleman Road BB1-a	Ponderosa Pine Needle	56	Base of Tree Soil	16
B-2	38.83678 -122.77173	West Coleman/Coleman Road (previously BB1-b) now B-2	Ponderosa Pine Needle	390	Base of Tree Soil	18
B-3	38.83687 -122.77157	West Coleman/Coleman Road previously BB1-c	Ponderosa Pine Needle	54	Base of Tree Soil	21
C-1	38.83655 -122.77121	Access Road C-1	Ponderosa Pine Needle	13	Base of Tree Soil	18
C-2	38.83655 -122.77105	Access Road C-2	Ponderosa Pine Needle	13	Base of Tree Soil	19
D-1	38.83574 -122.76807	North of Plant Fence Line D-1	Ponderosa Pine Needle	ND	Base of Tree Soil	14
D-2	38.83572 -122.76796	North of Plant Fence Line D-2 (previously D-6)	Ponderosa Pine Needle	5.6	Base of Tree Soil	ND
D-3	38.8364 -122.76813	North of Plant Fence Line DD-2 (previously DD-2a & b)	Ponderosa Pine Needle	7.9	Base of Tree Soil	18

ND - Not Detected

NA - Not Analyzed

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

12 December 2024

Mayacma Geothermal LLC
Attn: John Casteel
245 E Liberty St Suite 520
Reno, NV 89501
RE: Annual Needles
Work Order: 24L1034

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 13:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Needles	Reported:
Reno, NV 89501	Project Number: Pine Needles	12/12/24 14:40

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1 Needles	24L1034-01	Other (W)	12/03/24 16:18	12/04/24 13:17
A-2 Needles	24L1034-02	Other (W)	12/03/24 16:23	12/04/24 13:17
B-1 Needles	24L1034-03	Other (W)	12/03/24 16:02	12/04/24 13:17
B-2 Needles	24L1034-04	Other (W)	12/03/24 16:09	12/04/24 13:17
B-3 Needles	24L1034-05	Other (W)	12/03/24 15:51	12/04/24 13:17
C-1 Needles	24L1034-06	Other (W)	12/04/24 10:14	12/04/24 13:17
C-2 Needles	24L1034-07	Other (W)	12/04/24 10:12	12/04/24 13:17
D-1 Needles	24L1034-08	Other (W)	12/03/24 15:10	12/04/24 13:17
D-2 Needles	24L1034-09	Other (W)	12/03/24 15:08	12/04/24 13:17
D-3 Needles	24L1034-10	Other (W)	12/03/24 15:35	12/04/24 13:17

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Needles	Reported:
Reno, NV 89501	Project Number: Pine Needles	12/12/24 14:40

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
A-1 Needles (24L1034-01)			**Sample Type: Other (W)**			**Sampled: 12/03/24 16:18**				
Metals by EPA 6000/7000 Series Methods										
Boron	**8.0**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:39	2303	EPA 6010B	
A-2 Needles (24L1034-02)			**Sample Type: Other (W)**			**Sampled: 12/03/24 16:23**				
Metals by EPA 6000/7000 Series Methods										
Boron	**7.1**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:42	2303	EPA 6010B	
B-1 Needles (24L1034-03)			**Sample Type: Other (W)**			**Sampled: 12/03/24 16:02**				
Metals by EPA 6000/7000 Series Methods										
Boron	**56**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:45	2303	EPA 6010B	
B-2 Needles (24L1034-04)			**Sample Type: Other (W)**			**Sampled: 12/03/24 16:09**				
Metals by EPA 6000/7000 Series Methods										
Boron	**390**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:49	2303	EPA 6010B	
B-3 Needles (24L1034-05)			**Sample Type: Other (W)**			**Sampled: 12/03/24 15:51**				
Metals by EPA 6000/7000 Series Methods										
Boron	**54**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:52	2303	EPA 6010B	
C-1 Needles (24L1034-06)			**Sample Type: Other (W)**			**Sampled: 12/04/24 10:14**				
Metals by EPA 6000/7000 Series Methods										
Boron	**13**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 10:55	2303	EPA 6010B	
C-2 Needles (24L1034-07)			**Sample Type: Other (W)**			**Sampled: 12/04/24 10:12**				
Metals by EPA 6000/7000 Series Methods										
Boron	**13**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 11:04	2303	EPA 6010B	
D-1 Needles (24L1034-08)			**Sample Type: Other (W)**			**Sampled: 12/03/24 15:10**				
Metals by EPA 6000/7000 Series Methods										
Boron	ND	mg/kg	5.0	1	AL43633	12/06/24 05:33	12/09/24 11:07	2303	EPA 6010B	
D-2 Needles (24L1034-09)			**Sample Type: Other (W)**			**Sampled: 12/03/24 15:08**				
Metals by EPA 6000/7000 Series Methods										
Boron	**5.6**	**mg/kg**	**5.0**	1	AL43633	12/06/24 05:33	12/09/24 11:10	2303	EPA 6010B	
D-3 Needles (24L1034-10)			**Sample Type: Other (W)**			**Sampled: 12/03/24 15:35**				
Metals by EPA 6000/7000 Series Methods										
Boron	**7.9**	**mg/kg**	**4.0**	1	AL43633	12/06/24 05:33	12/09/24 11:13	2303	EPA 6010B	

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Needles	Reported:
Reno, NV 89501	Project Number: Pine Needles	12/12/24 14:40

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL43633 - NB EPA 3050B										
Blank (AL43633-BLK1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	ND	5.0	mg/kg							
LCS (AL43633-BS1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	45.7	5.0	mg/kg	50.0		91.4	80-120			
LCS Dup (AL43633-BSD1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	47.6	5.0	mg/kg	50.0		95.3	80-120	4.16	20	
Duplicate (AL43633-DUP1)		**Source: 24L1034-01**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	8.24	5.0	mg/kg		7.99			3.01	20	
MRL Check (AL43633-MRL1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	4.68	5.0	mg/kg	5.00		93.5	0-200			
Matrix Spike (AL43633-MS1)		**Source: 24L1034-02**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	49.5	5.0	mg/kg	48.1	7.07	88.2	75-125			
Matrix Spike Dup (AL43633-MSD1)		**Source: 24L1034-02**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	48.3	5.0	mg/kg	43.9	7.07	93.9	75-125	2.45	20	

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Needles	Reported:
Reno, NV 89501	Project Number: Pine Needles	12/12/24 14:40

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
REC	Recovery
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

19.9C

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc. 208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No 24L1034 Page 1 of 1

Company Name: Mayacma Geothermal LLC	Project Name: Pine Needles	Project Number:
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501	Project Address:	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	P.O. #	Quote #
Phone/Fax: 775-260-8351	Bill to: Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Samplers Signature: LUCIA PATTY

Analysis Request

All Samples:
Total boron EPA 6010B
Please provide report as PDF and excel.

TAT: 24 hr ○ | 48 hr ○ Lab Approval Required | 1 wk ○ | 2 wk (standard) ○

For Lab Use Only

Sample Designation	Sampling: Date	Sampling: Time	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative: None	Matrix: Water	Matrix: Soil
A-1 Needles	12/3/24	16:19										
A-2 Needles	"	16:23										
B-1 Needles	"	16:02										
B-2 Needles	"	16:09										
B-3 Needles	"	15:51										
C-1 Needles	12/4/24	10:14										
C-2 Needles	"	10:12										
D-1 Needles	12/3/24	15:10										
D-2 Needles	"	15:06										
D-3 Needles	"	15:35										

		Date	Time
Relinquished by: LUCIA PATTY	Received by: JB	12/4/24	1317
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

12 December 2024

Mayacma Geothermal LLC
Attn: John Casteel
245 E Liberty St Suite 520
Reno, NV 89501
RE: Annual Soil
Work Order: 24L1047

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 13:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Soil	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:43

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1 Soil	24L1047-01	Soil	12/03/24 16:18	12/04/24 13:17
A-2 Soil	24L1047-02	Soil	12/03/24 16:23	12/04/24 13:17
B-1 Soil	24L1047-03	Soil	12/03/24 16:02	12/04/24 13:17
B-2 Soil	24L1047-04	Soil	12/03/24 16:09	12/04/24 13:17
B-3 Soil	24L1047-05	Soil	12/03/24 15:51	12/04/24 13:17
C-1 Soil	24L1047-06	Soil	12/04/24 10:14	12/04/24 13:17
C-2 Soil	24L1047-07	Soil	12/04/24 10:12	12/04/24 13:17
D-1 Soil	24L1047-08	Soil	12/03/24 15:10	12/04/24 13:17
D-2 Soil	24L1047-09	Soil	12/03/24 15:08	12/04/24 13:17
D-3 Soil	24L1047-10	Soil	12/03/24 15:35	12/04/24 13:17

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Soil	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:43

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
A-1 Soil (24L1047-01)			**Sample Type: Soil**				**Sampled: 12/03/24 16:18**			
Metals by EPA 6000/7000 Series Methods										
Boron	**18**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 11:44	2303	EPA 6010B	
A-2 Soil (24L1047-02)			**Sample Type: Soil**				**Sampled: 12/03/24 16:23**			
Metals by EPA 6000/7000 Series Methods										
Boron	**17**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 11:47	2303	EPA 6010B	
B-1 Soil (24L1047-03)			**Sample Type: Soil**				**Sampled: 12/03/24 16:02**			
Metals by EPA 6000/7000 Series Methods										
Boron	**16**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 11:50	2303	EPA 6010B	
B-2 Soil (24L1047-04)			**Sample Type: Soil**				**Sampled: 12/03/24 16:09**			
Metals by EPA 6000/7000 Series Methods										
Boron	**18**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 11:53	2303	EPA 6010B	
B-3 Soil (24L1047-05)			**Sample Type: Soil**				**Sampled: 12/03/24 15:51**			
Metals by EPA 6000/7000 Series Methods										
Boron	**21**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 11:56	2303	EPA 6010B	
C-1 Soil (24L1047-06)			**Sample Type: Soil**				**Sampled: 12/04/24 10:14**			
Metals by EPA 6000/7000 Series Methods										
Boron	**18**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 12:00	2303	EPA 6010B	
C-2 Soil (24L1047-07)			**Sample Type: Soil**				**Sampled: 12/04/24 10:12**			
Metals by EPA 6000/7000 Series Methods										
Boron	**19**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 12:09	2303	EPA 6010B	
D-1 Soil (24L1047-08)			**Sample Type: Soil**				**Sampled: 12/03/24 15:10**			
Metals by EPA 6000/7000 Series Methods										
Boron	**14**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 12:12	2303	EPA 6010B	
D-2 Soil (24L1047-09)			**Sample Type: Soil**				**Sampled: 12/03/24 15:08**			
Metals by EPA 6000/7000 Series Methods										
Boron	ND	mg/kg	5.0	1	AL43634	12/06/24 05:37	12/09/24 12:15	2303	EPA 6010B	
D-3 Soil (24L1047-10)			**Sample Type: Soil**				**Sampled: 12/03/24 15:35**			
Metals by EPA 6000/7000 Series Methods										
Boron	**18**	**mg/kg**	**5.0**	1	AL43634	12/06/24 05:37	12/09/24 12:18	2303	EPA 6010B	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Soil	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:43

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL43634 - NB EPA 3050B										
Blank (AL43634-BLK1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	ND	5.0	mg/kg							
LCS (AL43634-BS1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	46.8	5.0	mg/kg	50.0		93.6	80-120			
LCS Dup (AL43634-BSD1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	47.3	5.0	mg/kg	50.0		94.6	80-120	1.06	20	
Duplicate (AL43634-DUP1)		**Source: 24L1047-01**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	17.9	5.0	mg/kg		18.3			2.40	20	
MRL Check (AL43634-MRL1)				Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	4.35	5.0	mg/kg	5.00		87.0	0-200			
Matrix Spike (AL43634-MS1)		**Source: 24L1047-02**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	54.3	5.0	mg/kg	48.1	17.1	77.3	75-125			
Matrix Spike Dup (AL43634-MSD1)		**Source: 24L1047-02**		Prepared: 12/06/24 Analyzed: 12/09/24						
Boron	55.1	5.0	mg/kg	48.5	17.1	78.2	75-125	1.50	20	

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Annual Soil	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:43

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
REC	Recovery
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

19.9C

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc. 208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24L1047 Page 1 of 1

Company Name:	Project Name:	Project Number:
Mayacma Geothermal LLC	Soils	
Mailing Address:	Project Address:	
245 E Liberty St Suite 520 Reno, NV 89501		
Project Contact (Hardcopy or PDF to):	P.O. #	Quote #
John Casteel John@openmountainenergy.com		
Phone/Fax:	Bill to: Mayacma Geothermal LLC	
775-260-8351	245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Analysis Request

All Samples:
Total boron EPA 6010B
Please provide report as PDF and excel.

TAT

- 24 hr ○
- 48 hr ○ *Lab Approval Required*
- 1 wk ○
- 2 wk (standard) ○

For Lab Use Only

Samplers Signature: Lucas Pinto

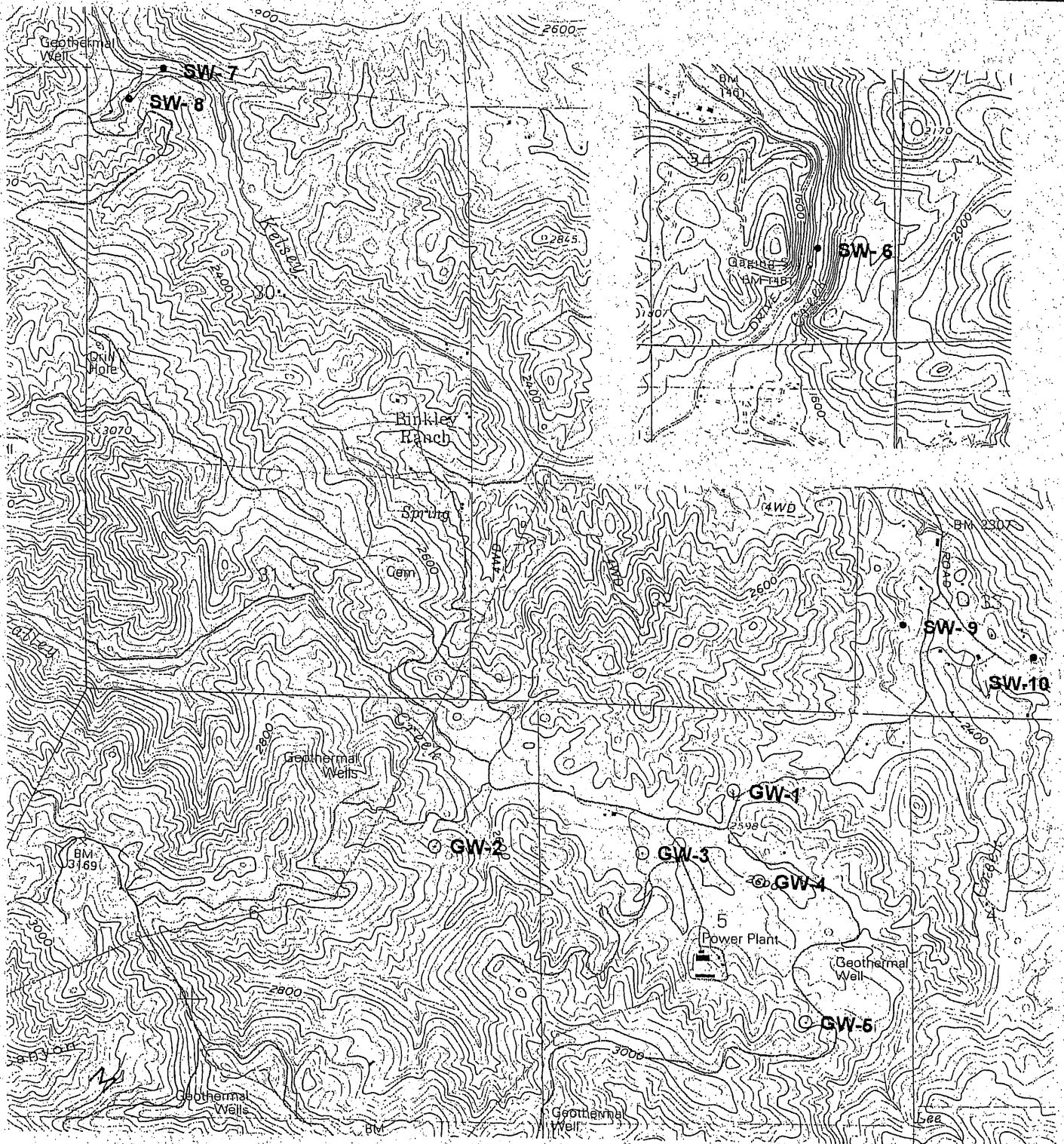
Sample Designation	Sampling Date	Sampling Time	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative: None	Matrix: Water	Matrix: Soil
A-1 Soil	12/3/24	16:18										
A-2 Soil	"	16:23										
B-1 Soil	"	16:02										
B-2 Soil	"	16:09										
B-3 Soil	"	15:51										
C-1 Soil	12/4/24	10:14										
C-2 Soil	"	10:12										
D-1 Soil 12/3/24 15:10	~~12/3/24~~	~~15:08~~		15:10								
D-2 Soil	12/3/24	15:08										
D-3 Soil	"	15:35										

Relinquished by:	Received by:	Date	Time
Lucas Pinto	TB	12/4/24	1317
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:



EGS INC

Bottle Rock Monitoring Program

Water Quality Sample Locations

Scale: 1inch = 2000 feet

Project No: 0068-026-02

Date: June 2003

FIG.1.1

Table 2
Bottle Rock Power, LLC
2024 Ground Water and Surface Water Monitoring
1st Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic µg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Disolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	57	18	218	0.12	ND	ND	ND	0.13	11	ND	8.09	380	NA	ND	170	ND	21	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	38	11	142	0.46	ND	0.33	ND	0.053	29	ND	8.03	350	NA	2	170	ND	6.1	ND	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey	ND	11	19	105	ND	ND	0.12	ND	ND	ND	ND	7.97	220	11	2.7	110	NA	3.7	ND	260
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	12	11	73	ND	ND	ND	ND	ND	ND	ND	7.63	170	11	1.2	69	NA	5.6	ND	150
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	6.9	8.9	54	ND	ND	0.1	ND	ND	ND	ND	7.73	130	11	3	58	NA	2.9	1.6	390
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	6.7	3.9	33	ND	ND	ND	ND	ND	ND	ND	7.91	98	11	1.4	43	NA	2.3	1.3	180
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	5	4.4	31	ND	ND	0.13	ND	ND	ND	ND	7.98	97	11	4.5	36	NA	0.87	2.1	360

ND = Not Detected
NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2024 Ground Water and Surface Water Monitoring
2nd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic µg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Disolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	48	15	182	ND	ND	ND	ND	0.11	8.7	ND	7.56	400	NA	ND	180	ND	21	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	34	10	127	0.41	ND	0.15	ND	0.046	26	ND	7.74	360	NA	ND	170	ND	6.3	ND	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	14	24	134	ND	ND	ND	ND	ND	ND	ND	8.1	290	11.0	ND	130	NA	3.5	ND	>2419.6
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	17	16	107	0.13	ND	ND	ND	ND	ND	ND	7.6	290	9.3	ND	110	NA	9.1	2.3	1700
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	30	47	269	0.100	ND	ND	ND	0.021	6.7	ND	7.9	540	9.8	1.2	260	NA	14	3.2	>2419.6
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	7.6	3.9	35	ND	ND	ND	ND	ND	ND	ND	7.53	95	10	ND	42	NA	2.2	1.2	>2416.6
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	7.4	5.7	42	ND	ND	0.13	ND	ND	ND	ND	7.54	ND	10	2.2	52	NA	2	3.3	>2419.6

ND = Not Detected
NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2024 Ground Water and Surface Water Monitoring
3rd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic µg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cn	Disolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	42	14	164	ND	ND	ND	ND	0.1	8.1	ND	7.83	380	NA	ND	180	ND	20	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	31	9.7	118	0.43	ND	0.54	ND	0.5	24	ND	7.96	350	NA	2.1	180	ND	5.5	4.9	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	ND	21	116	ND	ND	ND	ND	ND	6.3	ND	8.17	250	10.0	ND	130	NA	1.1	ND	1700
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	7.2	5.2	39	ND	ND	ND	ND	ND	ND	ND	7.91	110	10	1.2	56	NA	ND	1.5	1100
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	ND	2.4	20	ND	ND	ND	ND	ND	ND	ND	7.54	66	10	ND	33	NA	0.66	ND	870
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	8.5	6.2	47	ND	ND	0.12	ND	ND	6.2	ND	7.94	120	11	1.4	62	ND	ND	1.4	980

ND = Not Detected
NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2024 Ground Water and Surface Water Monitoring
4th Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	Arsenic µg/l	Calcium mg/l	Magnesium mg/l	Hardness mg/l	Boron mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Sodium mg/l	Zinc mg/l	pH	Electrical Conductivity umhos/cm	Disolved Oxygen mg/l	Turbidity NTU	Total Alkalinity mg/l	Nitrate mg/l	Sulfate mg/l	Total Suspended Solids mg/l	Total Coliform MPN
GW-1	38 50' 27.84" N 122 45' 59.07" W	Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	48	15	183	ND	ND	ND	ND	0.11	8.8	ND	8.18	390	NA	ND	190	ND	20	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	33	10	123	0.41	ND	2	ND	0.09	26	ND	8.08	340	NA	14.0	170	ND	4.3	5.3	NA
SW-6	38 55' 33.58" N 122 50' 39.91" W	Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	12	18	103	ND	ND	ND	ND	ND	ND	ND	8.26	220	11.0	0.91	110	NA	4.1	ND	730
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	16	15	102	0.15	ND	ND	ND	15	ND	ND	7.9	210	8.9	ND	100	NA	8.4	ND	410
SW-8	38 52' 08.29" N 122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	7.1	5.2	39	ND	ND	ND	ND	5.2	ND	ND	7.96	100	11	2.1	49	NA	1.5	1.2	730
SW-9	38 50' 40.18" N 122 45' 29.61" W	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	6.7	3.7	32	ND	ND	ND	ND	ND	ND	ND	7.85	87	11	0.53	41	NA	2	ND	330
SW-10	38 50' 36.22" N 122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	7	5.9	42	ND	ND	0.11	ND	ND	ND	ND	7.95	100	11	3.0	49	NA	1.1	1.4	730

ND = Not Detected
NA = Not Analyzed

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
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28 March 2024

Bottle Rock Power
Attn: M. Moore
4010 Stone Way North, Suite 400
Seattle, WA 98103
RE: Groundwater
Work Order: 24C2269

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 13:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	24C2269-01	Water	03/14/24 08:16	03/14/24 13:21
GW-1	24C2269-02	Water	03/14/24 08:58	03/14/24 13:21

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24C2269-01)			**Sample Type: Water**			**Sampled: 03/14/24 08:16**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Boron	**0.46**	**mg/L**	**0.10**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Calcium	**38**	**mg/L**	**5.0**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Iron	**0.33**	**mg/L**	**0.10**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Magnesium	**11**	**mg/L**	**0.60**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Manganese	**0.052**	**mg/L**	**0.020**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Sodium	**29**	**mg/L**	**6.0**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**8.03**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**350**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**2.0**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**142**	**mg/L**	**15**	1	AC44421	03/18/24 07:14	03/18/24 08:39	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AC44161	03/14/24 10:30	03/14/24 19:12	2303	EPA 300.0	
Sulfate as SO4	**6.1**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 19:12	2303	EPA 300.0	
GW-1 (24C2269-02)			**Sample Type: Water**			**Sampled: 03/14/24 08:58**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Boron	**0.12**	**mg/L**	**0.10**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Calcium	**57**	**mg/L**	**5.0**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Magnesium	**18**	**mg/L**	**0.60**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Manganese	**0.13**	**mg/L**	**0.020**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Sodium	**11**	**mg/L**	**6.0**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	EPA 200.7	

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24C2269-02)			**Sample Type: Water**			**Sampled: 03/14/24 08:58**				
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**8.09**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**380**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**218**	**mg/L**	**15**	1	AC44421	03/18/24 07:14	03/18/24 08:42	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AC44161	03/14/24 10:30	03/14/24 19:25	2303	EPA 300.0	
Sulfate as SO4	**21**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 19:25	2303	EPA 300.0	

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44421 - NB EPA 200 series DA										
Blank (AC44421-BLK1)				Prepared & Analyzed: 03/18/24						
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AC44421-BS1)				Prepared & Analyzed: 03/18/24						
Arsenic	0.506	0.020	mg/L	0.500		101	85-115			
Boron	0.485	0.10	mg/L	0.500		97.0	85-115			
Calcium	23.7	5.0	mg/L	25.5		93.0	85-115			
Copper	0.468	0.050	mg/L	0.500		93.5	85-115			
Iron	0.506	0.10	mg/L	0.500		101	85-115			
Lead	0.470	0.020	mg/L	0.500		94.1	85-115			
Magnesium	24.3	0.60	mg/L	25.5		95.3	85-115			
Manganese	0.484	0.020	mg/L	0.500		96.8	85-115			
Sodium	25.2	6.0	mg/L	25.5		98.8	85-115			
Zinc	0.491	0.30	mg/L	0.500		98.2	85-115			
LCS Dup (AC44421-BSD1)				Prepared & Analyzed: 03/18/24						
Arsenic	0.511	0.020	mg/L	0.500		102	85-115	1.02	20	
Boron	0.487	0.10	mg/L	0.500		97.3	85-115	0.350	20	
Calcium	23.8	5.0	mg/L	25.5		93.4	85-115	0.462	20	
Copper	0.470	0.050	mg/L	0.500		94.0	85-115	0.469	20	
Iron	0.508	0.10	mg/L	0.500		102	85-115	0.474	20	
Lead	0.474	0.020	mg/L	0.500		94.9	85-115	0.868	20	
Magnesium	24.4	0.60	mg/L	25.5		95.6	85-115	0.305	20	
Manganese	0.486	0.020	mg/L	0.500		97.2	85-115	0.371	20	
Sodium	25.3	6.0	mg/L	25.5		99.2	85-115	0.328	20	
Zinc	0.494	0.30	mg/L	0.500		98.9	85-115	0.629	20	

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44421 - NB EPA 200 series DA										
Duplicate (AC44421-DUP1)	**Source: 24C2269-01**			Prepared & Analyzed: 03/18/24						
Arsenic	ND	0.020	mg/L		ND				20	
Boron	0.437	0.10	mg/L		0.459			4.89	20	
Calcium	36.0	5.0	mg/L		38.0			5.24	20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.312	0.10	mg/L		0.328			5.09	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	10.8	0.60	mg/L		11.3			5.13	20	
Manganese	0.0489	0.020	mg/L		0.0516			5.37	20	
Sodium	27.4	6.0	mg/L		29.0			5.56	20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AC44421-MRL1)				Prepared & Analyzed: 03/18/24						
Arsenic	0.0231	0.020	mg/L	0.0200		116	0-200			
Boron	0.101	0.10	mg/L	0.100		101	0-200			
Calcium	5.35	5.0	mg/L	5.00		107	0-200			
Copper	0.0975	0.050	mg/L	0.100		97.5	0-200			
Iron	0.104	0.10	mg/L	0.100		104	0-200			
Lead	0.0218	0.020	mg/L	0.0200		109	0-200			
Magnesium	0.523	0.60	mg/L	0.500		105	0-200			
Manganese	0.0210	0.020	mg/L	0.0200		105	0-200			
Sodium	5.55	6.0	mg/L	5.00		111	0-200			
Zinc	0.386	0.30	mg/L	0.350		110	0-200			
Matrix Spike (AC44421-MS1)	**Source: 24C2269-02**			Prepared & Analyzed: 03/18/24						
Arsenic	0.604	0.020	mg/L	0.500	ND	121	70-130			
Boron	0.682	0.10	mg/L	0.500	0.115	113	70-130			
Calcium	80.3	5.0	mg/L	25.5	57.1	90.9	70-130			
Copper	0.565	0.050	mg/L	0.500	ND	113	70-130			
Iron	0.648	0.10	mg/L	0.500	ND	118	70-130			
Lead	0.554	0.020	mg/L	0.500	ND	111	70-130			
Magnesium	44.7	0.60	mg/L	25.5	18.3	104	70-130			
Manganese	0.676	0.020	mg/L	0.500	0.127	110	70-130			
Sodium	39.0	6.0	mg/L	25.5	10.7	111	70-130			
Zinc	0.579	0.30	mg/L	0.500	ND	116	70-130			

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44304 - NB General Prep										
Blank (AC44304-BLK1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	ND	1.0	NTU							
Duplicate (AC44304-DUP1)		Source: 24C2266-01		Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	1.13	1.0	NTU		1.23			8.47	20	
MRL Check (AC44304-MRL1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	1.23	1.0	NTU	1.00		123	0-200			
Batch AC44421 - NB EPA 200 series DA										
Blank (AC44421-BLK1)				Prepared & Analyzed: 03/18/24						
Hardness, Total	ND	15	mg/L							
Duplicate (AC44421-DUP1)		Source: 24C2269-01		Prepared & Analyzed: 03/18/24						
Hardness, Total	134	15	mg/L		142			5.20	20	
Batch AC44465 - General Preparation										
Blank (AC44465-BLK1)				Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	ND	1.0	mg/L							
LCS (AC44465-BS1)				Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	98.0	1.0	mg/L	100		98.0	90-110			
Duplicate (AC44465-DUP1)		Source: 24C2350-01		Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	36.7	1.0	mg/L		35.3			3.72	30	

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44755 - NB General Prep										
LCS (AC44755-BS1)				Prepared: 03/21/24 Analyzed: 03/22/24						
Total Alkalinity as CaCO3	1020	30	mg/L	1000		102	80-120			
Duplicate (AC44755-DUP1)		**Source: 24C2266-01**		Prepared: 03/21/24 Analyzed: 03/22/24						
Total Alkalinity as CaCO3	70.6	30	mg/L		69.3			1.86	20	
Bicarbonate Alkalinity as CaCO3	70.6	30	mg/L		69.3			1.86	20	
Carbonate Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Batch AC45089 - NB General Prep										
Calibration Check (AC45089-CCV1)				Prepared & Analyzed: 03/27/24						
pH	7.49	1.68	pH Units				0-200			
Duplicate (AC45089-DUP1)		**Source: 24C3088-01**		Prepared & Analyzed: 03/27/24						
pH	7.29	1.68	pH Units		7.26			0.412	20	
Batch AC45090 - NB General Prep										
Duplicate (AC45090-DUP1)		**Source: 24C3088-01**		Prepared & Analyzed: 03/27/24						
Specific Conductance (EC)	842	10	umhos/cm@25°C		849			0.828	5	

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44161 - NB General Prep										
Blank (AC44161-BLK1)				Prepared & Analyzed: 03/14/24						
Nitrate as N	ND	0.40	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
LCS (AC44161-BS1)				Prepared & Analyzed: 03/14/24						
Nitrate as N	1.82	0.40	mg/L	1.80		101	90-110			
Sulfate as SO4	8.24	0.50	mg/L	8.00		103	90-110			
Duplicate (AC44161-DUP1)		**Source: 24C2096-02**		Prepared & Analyzed: 03/14/24						
Nitrate as N	1.46	0.40	mg/L		ND				20	
Sulfate as SO4	53.9	0.50	mg/L		ND				20	
MRL Check (AC44161-MRL1)				Prepared & Analyzed: 03/14/24						
Nitrate as N	0.363	0.40	mg/L	0.361		101	60-140			
Sulfate as SO4	1.68	0.50	mg/L	1.60		105	60-140			
Matrix Spike (AC44161-MS1)		**Source: 24C2096-01**		Prepared & Analyzed: 03/14/24						
Nitrate as N	3.27	0.40	mg/L	1.80	1.56	94.4	80-120			
Sulfate as SO4	57.2	0.50	mg/L	8.00	53.9	41.8	80-120			QM-02
Matrix Spike Dup (AC44161-MSD1)		**Source: 24C2096-01**		Prepared & Analyzed: 03/14/24						
Nitrate as N	3.30	0.40	mg/L	1.80	1.56	96.3	80-120	1.06	20	
Sulfate as SO4	56.9	0.50	mg/L	8.00	53.9	37.7	80-120	0.577	20	QM-02

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Bottle Rock Power	Project Manager: M. Moore	
4010 Stone Way North, Suite 400	Project: Groundwater	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - GW	03/28/24 10:13

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

alpha
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WATERS, SEDIMENTS, SOLIDS

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North Bay Laboratory (2303)
737 Southpoint Blvd, Ste D, Petaluma 94954

Bay Area Laboratory (2772)
262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922)
9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center
2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 24C 2269 Pg ____ of ____

Report to	Invoice to (if different)	Project Information
Company: Bottle Rock Power	Contact:	Project ID: Bottle Rock Monitoring-GW
Attn: [redacted] Richard Lacy	Email address:	Project No:
Address: PO Box 326, Cobb, CA 95426	Address:	PO Number:
Phone/Fax: 707-529-3799	Phone/Fax:	
Email Address:		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature: Richard Lacy

Sample Identification	Sampling Date	Sampling Time	Container: 40ml VOA Vial	Container: Plastic	Container: Glass	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: Other	Preservative: None	Matrix: Drinking Water	Matrix: Wastewater	Matrix: Soil	Matrix: Other	Total Number of Containers per Sample ID	ALK, Ph, ec	Turbidity & TSS	Hardness, SO4	B, Cu, Fe & Pb	Mn, Na & Zn	As & NO3			Field pH	Field TDS ppm		Notes / DDW Source Codes
GW-3	3/14/24	8:16		X													3	X	X	X	X	X	X						
GW-1	3/14/24	8:56		X													3	X	X	X	X	X	X						

TAT
Standard 10 days ○
RUSH: 5 days ○ 48 hours ○ Other: ____days ○ Preapproval required

TEMP °C
Ukiah
Livermore
Elk Grove
Petaluma 13.9
Carlsbad

Relinquished by	Received by	Date	Time
Richard Lacy	[signature]	3-14-24	1321

DDW Write On EDT Transmission? ○ Yes ○ No

State System Number: ____

If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? ○ Yes ○ No

Global ID: Sampling Company Log Code:

EDF to (Email Address):

Travel and Site Time:	Mileage:	Misc. Supplies:

wko_NBtoUK_COC.rpt

WORK ORDER

24C2269

1.6°C

Printed: 3/14/2024 3:11:22PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Bottle Rock Power**	**Client Code:**	**NB_BOTTLEROCK**	**Bid:**	**Master Bid**
Project:	**Groundwater**	**Project Number:**	**Bottle Rock Monitoring - GW**	**PO #:**	

Date Due: 03/28/24 15:00 (10 day TAT)
Received By: Luke Andrew Smith
Logged In By: Luke Andrew Smith

Date Received: 03/14/24 13:21
Date Logged 03/14/24 13:42

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24C2269-01 GW-3 [Water] Sampled 03/14/24 08:16			
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	
24C2269-02 GW-1 [Water] Sampled 03/14/24 08:58			
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	

Containers Supplied:
1L Poly - Unpres (C)
1L Poly - Unpres (C)

[signature]	3-14-24	JW	3-14-24 1513
Relinquished By	Date	Received By	Date Tim
JW	3-14-24	JW	3-14-24 2230
Relinquished By	Date	Received By	Date Tim

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28 March 2024

Bottle Rock Power
Attn: Richard
4010 Stone Way North, Suite 400
Seattle, WA 98103
RE: Surface Water
Work Order: 24C2266

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 13:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7	24C2266-01	Water	03/14/24 08:37	03/14/24 13:21
SW-9	24C2266-02	Water	03/14/24 09:25	03/14/24 13:21
SW-10	24C2266-03	Water	03/14/24 09:11	03/14/24 13:21
SW-6	24C2266-04	Water	03/14/24 10:31	03/14/24 13:21
SW-8	24C2266-05	Water	03/14/24 09:48	03/14/24 13:21

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (24C2266-01)			**Sample Type: Water**			**Sampled: 03/14/24 08:37**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Calcium	**12**	**mg/L**	**5.0**	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Magnesium	**11**	**mg/L**	**0.60**	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:39	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551	SM4500-O G	T-14
pH	**7.63**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**170**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**69**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**1.2**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**69**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**73**	**mg/L**	**15**	1	AC44274	03/15/24 07:12	03/18/24 07:42	2303	SM2340B	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (24C2266-01)			**Sample Type: Water**			**Sampled: 03/14/24 08:37**				
Anions by EPA Method 300.0										
Sulfate as SO4	**5.6**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 17:42	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**150**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	**11**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
SW-9 (24C2266-02)			**Sample Type: Water**			**Sampled: 03/14/24 09:25**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Calcium	**6.7**	**mg/L**	**5.0**	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Magnesium	**3.9**	**mg/L**	**0.60**	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:41	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (24C2266-02)			**Sample Type: Water**			**Sampled: 03/14/24 09:25**				
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551	SM4500-O G	T-14
pH	**7.91**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**98**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**43**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	**1.3**	**mg/L**	**1.0**	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**1.4**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**43**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**33**	**mg/L**	**15**	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**2.3**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 17:54	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**180**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	**1.0**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
SW-10 (24C2266-03)			**Sample Type: Water**			**Sampled: 03/14/24 09:11**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Calcium	**5.0**	**mg/L**	**5.0**	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Iron	**0.13**	**mg/L**	**0.10**	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Magnesium	**4.4**	**mg/L**	**0.60**	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:44	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	EPA 200.7	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (24C2266-03)			**Sample Type: Water**			**Sampled: 03/14/24 09:11**				
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551	SM4500-O G	T-14
pH	**7.98**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**97**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**36**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	**2.1**	**mg/L**	**1.0**	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**4.5**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**36**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**31**	**mg/L**	**15**	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**0.87**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 18:33	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**360**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	**11**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
SW-6 (24C2266-04)			**Sample Type: Water**			**Sampled: 03/14/24 10:31**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Calcium	**11**	**mg/L**	**5.0**	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Iron	**0.12**	**mg/L**	**0.10**	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Magnesium	**19**	**mg/L**	**0.60**	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:47	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	EPA 200.7	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24C2266-04)			**Sample Type: Water**			**Sampled: 03/14/24 10:31**				
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551	SM4500-O G	T-14
pH	**7.97**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**220**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**110**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**2.7**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**110**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**105**	**mg/L**	**15**	1	AC44274	03/15/24 07:12	03/18/24 07:51	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**3.7**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:40	03/14/24 18:46	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**260**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	**25**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
SW-8 (24C2266-05)			**Sample Type: Water**			**Sampled: 03/14/24 09:48**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Calcium	**6.9**	**mg/L**	**5.0**	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Iron	**0.10**	**mg/L**	**0.10**	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Magnesium	**8.9**	**mg/L**	**0.60**	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:49	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	EPA 200.7	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (24C2266-05)			**Sample Type: Water**			**Sampled: 03/14/24 09:48**				
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551	SM4500-O G	T-14
pH	**7.73**	**pH Units**	**1.68**	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**130**	**umhos/cm@25°**	**10**	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	**58**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	**1.6**	**mg/L**	**1.0**	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	**3.0**	**NTU**	**1.0**	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**58**	**mg/L**	**30**	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	**54**	**mg/L**	**15**	1	AC44274	03/15/24 07:12	03/18/24 07:54	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**2.9**	**mg/L**	**0.50**	1	AC44161	03/14/24 10:30	03/14/24 18:59	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**390**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	**73**	**MPN/100mL**	**1.0**	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44274 - NB EPA 200 series										
Blank (AC44274-BLK1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Vanadium	ND	0.020	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AC44274-BS1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	0.486	0.020	mg/L	0.500		97.3	85-115			
Boron	0.467	0.10	mg/L	0.500		93.4	85-115			
Calcium	22.5	5.0	mg/L	25.5		88.1	85-115			
Chromium	0.462	0.010	mg/L	0.500		92.4	85-115			
Copper	0.453	0.050	mg/L	0.500		90.6	85-115			
Iron	0.497	0.10	mg/L	0.500		99.3	85-115			
Lead	0.454	0.020	mg/L	0.500		90.9	85-115			
Magnesium	23.1	0.60	mg/L	25.5		90.6	85-115			
Manganese	0.464	0.020	mg/L	0.500		92.7	85-115			
Sodium	23.6	6.0	mg/L	25.5		92.4	85-115			
Vanadium	0.471	0.020	mg/L	0.500		94.2	85-115			
Zinc	0.484	0.30	mg/L	0.500		96.7	85-115			
LCS Dup (AC44274-BSD1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	0.509	0.020	mg/L	0.500		102	85-115	4.44	20	
Boron	0.484	0.10	mg/L	0.500		96.8	85-115	3.62	20	
Calcium	23.2	5.0	mg/L	25.5		91.0	85-115	3.24	20	
Chromium	0.482	0.010	mg/L	0.500		96.4	85-115	4.24	20	
Copper	0.471	0.050	mg/L	0.500		94.2	85-115	3.94	20	
Iron	0.520	0.10	mg/L	0.500		104	85-115	4.60	20	
Lead	0.475	0.020	mg/L	0.500		95.0	85-115	4.39	20	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44274 - NB EPA 200 series										
LCS Dup (AC44274-BSD1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Magnesium	24.0	0.60	mg/L	25.5		94.3	85-115	3.97	20	
Manganese	0.484	0.020	mg/L	0.500		96.8	85-115	4.26	20	
Sodium	24.4	6.0	mg/L	25.5		95.6	85-115	3.40	20	
Vanadium	0.491	0.020	mg/L	0.500		98.2	85-115	4.20	20	
Zinc	0.488	0.30	mg/L	0.500		97.5	85-115	0.824	20	
Duplicate (AC44274-DUP1)		**Source: 24C2266-01**		Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	ND	0.020	mg/L		ND				20	
Boron	ND	0.10	mg/L		ND			11.5	20	
Calcium	11.7	5.0	mg/L		11.7			0.223	20	
Chromium	ND	0.010	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	ND	0.10	mg/L		ND				20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	10.5	0.60	mg/L		10.5			0.230	20	
Manganese	ND	0.020	mg/L		ND				20	
Sodium	6.22	6.0	mg/L		ND			41.2	20	
Vanadium	ND	0.020	mg/L		ND				20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AC44274-MRL1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	0.0201	0.020	mg/L	0.0200		100	0-200			
Boron	0.0929	0.10	mg/L	0.100		92.9	0-200			
Calcium	4.78	5.0	mg/L	5.00		95.6	0-200			
Chromium	0.00990	0.010	mg/L	0.0100		99.0	0-200			
Copper	0.0903	0.050	mg/L	0.100		90.3	0-200			
Iron	0.0998	0.10	mg/L	0.100		99.8	0-200			
Lead	0.0193	0.020	mg/L	0.0200		96.5	0-200			
Magnesium	0.490	0.60	mg/L	0.500		98.0	0-200			
Manganese	0.0195	0.020	mg/L	0.0200		97.5	0-200			
Sodium	4.82	6.0	mg/L	5.00		96.3	0-200			
Vanadium	0.0194	0.020	mg/L	0.0200		97.0	0-200			
Zinc	0.355	0.30	mg/L	0.350		101	0-200			

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44274 - NB EPA 200 series										
Matrix Spike (AC44274-MS1)	**Source: 24C2266-02**			Prepared: 03/15/24 Analyzed: 03/18/24						
Arsenic	0.496	0.020	mg/L	0.500	ND	99.1	70-130			
Boron	0.528	0.10	mg/L	0.500	ND	95.6	70-130			
Calcium	29.4	5.0	mg/L	25.5	6.68	89.0	70-130			
Chromium	0.470	0.010	mg/L	0.500	ND	94.0	70-130			
Copper	0.457	0.050	mg/L	0.500	ND	91.5	70-130			
Iron	0.569	0.10	mg/L	0.500	ND	99.9	70-130			
Lead	0.456	0.020	mg/L	0.500	ND	91.2	70-130			
Magnesium	27.2	0.60	mg/L	25.5	3.90	91.5	70-130			
Manganese	0.472	0.020	mg/L	0.500	ND	94.4	70-130			
Sodium	28.7	6.0	mg/L	25.5	ND	97.7	70-130			
Vanadium	0.475	0.020	mg/L	0.500	ND	95.0	70-130			
Zinc	0.475	0.30	mg/L	0.500	ND	95.0	70-130			
Batch AC44700 - Hg Digest										
Blank (AC44700-BLK1)				Prepared & Analyzed: 03/21/24						
Mercury	ND	0.20	ug/L							
LCS (AC44700-BS1)				Prepared & Analyzed: 03/21/24						
Mercury	2.74	0.20	ug/L	2.50		110	85-115			
Duplicate (AC44700-DUP1)	**Source: 24C2793-01**			Prepared & Analyzed: 03/21/24						
Mercury	ND	0.20	ug/L		ND				20	
Matrix Spike (AC44700-MS1)	**Source: 24C2793-01**			Prepared & Analyzed: 03/21/24						
Mercury	2.70	0.20	ug/L	2.50	ND	108	70-130			

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44700 - Hg Digest										
Matrix Spike (AC44700-MS2)		**Source: 24C2806-01**		Prepared & Analyzed: 03/21/24						
Mercury	2.90	0.20	ug/L	2.50	ND	116	70-130			
Matrix Spike Dup (AC44700-MSD1)		**Source: 24C2793-01**		Prepared & Analyzed: 03/21/24						
Mercury	2.89	0.20	ug/L	2.50	ND	115	70-130	6.55	20	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44274 - NB EPA 200 series										
Blank (AC44274-BLK1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Hardness, Total	ND	15	mg/L							
Duplicate (AC44274-DUP1)		**Source: 24C2266-01**		Prepared: 03/15/24 Analyzed: 03/18/24						
Hardness, Total	73	15	mg/L		73			0.0514	20	
Batch AC44304 - NB General Prep										
Blank (AC44304-BLK1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	ND	1.0	NTU							
Duplicate (AC44304-DUP1)		**Source: 24C2266-01**		Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	1.13	1.0	NTU		1.23			8.47	20	
MRL Check (AC44304-MRL1)				Prepared: 03/15/24 Analyzed: 03/18/24						
Turbidity	1.23	1.0	NTU	1.00		123	0-200			
Batch AC44334 - General Preparation										
Duplicate (AC44334-DUP1)		**Source: 24C2266-02**		Prepared & Analyzed: 03/15/24						
Dissolved Oxygen	11.1	0.10	mg/L		11.2			0.0897	20	
Batch AC44465 - General Preparation										
Blank (AC44465-BLK1)				Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	ND	1.0	mg/L							

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44465 - General Preparation										
LCS (AC44465-BS1)				Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	98.0	1.0	mg/L	100		98.0	90-110			
Duplicate (AC44465-DUP1)		Source: 24C2350-01		Prepared: 03/18/24 Analyzed: 03/19/24						
Total Suspended Solids	36.7	1.0	mg/L		35.3			3.72	30	
Batch AC44755 - NB General Prep										
LCS (AC44755-BS1)				Prepared: 03/21/24 Analyzed: 03/22/24						
Total Alkalinity as CaCO3	1020	30	mg/L	1000		102	80-120			
Duplicate (AC44755-DUP1)		Source: 24C2266-01		Prepared: 03/21/24 Analyzed: 03/22/24						
Total Alkalinity as CaCO3	70.6	30	mg/L		69.3			1.86	20	
Bicarbonate Alkalinity as CaCO3	70.6	30	mg/L		69.3			1.86	20	
Carbonate Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Batch AC45089 - NB General Prep										
Calibration Check (AC45089-CCV1)				Prepared & Analyzed: 03/27/24						
pH	7.49	1.68	pH Units				0-200			
Duplicate (AC45089-DUP1)		Source: 24C3088-01		Prepared & Analyzed: 03/27/24						
pH	7.29	1.68	pH Units		7.26			0.412	20	
Batch AC45090 - NB General Prep										
Duplicate (AC45090-DUP1)		Source: 24C3088-01		Prepared & Analyzed: 03/27/24						
Specific Conductance (EC)	842	10	mhos/cm@25°C		849			0.828	5	

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC44161 - NB General Prep										
Blank (AC44161-BLK1)				Prepared & Analyzed: 03/14/24						
Sulfate as SO4	ND	0.50	mg/L							
LCS (AC44161-BS1)				Prepared & Analyzed: 03/14/24						
Sulfate as SO4	8.24	0.50	mg/L	8.00		103	90-110			
Duplicate (AC44161-DUP1)		**Source: 24C2096-02**		Prepared & Analyzed: 03/14/24						
Sulfate as SO4	53.9	0.50	mg/L		ND				20	
MRL Check (AC44161-MRL1)				Prepared & Analyzed: 03/14/24						
Sulfate as SO4	1.68	0.50	mg/L	1.60		105	60-140			
Matrix Spike (AC44161-MS1)		**Source: 24C2096-01**		Prepared & Analyzed: 03/14/24						
Sulfate as SO4	57.2	0.50	mg/L	8.00	53.9	41.8	80-120			QM-02
Matrix Spike Dup (AC44161-MSD1)		**Source: 24C2096-01**		Prepared & Analyzed: 03/14/24						
Sulfate as SO4	56.9	0.50	mg/L	8.00	53.9	37.7	80-120	0.577	20	QM-02

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Bottle Rock Power	Project Manager: Richard	
4010 Stone Way North, Suite 400	Project: Surface Water	Reported:
Seattle, WA 98103	Project Number: Bottle Rock Monitoring - SW	03/28/24 10:16

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

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Bay Area Laboratory (2728)
262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922)
9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center
2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 24C2266 Pg ____ of ____

Report to	Invoice to (if different)	Project Information
Company: Bottle Rock Power	Contact:	Project ID: Bottle Rock Monitoring-SW
Attn: [redacted] Richard Lacy	Email address:	Project No:
Address: PO Box 326, Cobb, CA 95426	Address:	PO Number:
Phone/Fax: 707-529-3799	Phone/Fax:	
Email Address:		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature: Richard Lacy

Sample Identification	Sampling Date	Sampling Time	Container: 40ml VOA Vial	Container: Plastic	Container: Glass	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: Other	Preservative: None	Matrix: Drinking Water	Matrix: Wastewater	Matrix: Soil	Matrix: Other	Total Number of Containers per Sample ID	ALK, Ph, ec	Turbidity & TSS	Hardness, SO4	B, Cu, Fe & Pb	Mn, Na & Zn	Diss. Oxygen	Bac-T	As, Cr, V, Hg	Notes / DDW Source Codes
SW-7	3/14/24	8:37		X	X												6	X	X	X	X	X	X	X	X	
SW-9	3/14/24	9:25		X	X												6	X	X	X	X	X	X	X	X	
SW-10	3/14/24	9:11		X	X												6	X	X	X	X	X	X	X	X	
SW-6	3/14/24	10:31		X	X												6	X	X	X	X	X	X	X	X	
SW-8	3/14/24	9:48		X	X												6	X	X	X	X	X	X	X	X	

TAT
- Standard 10 days ○
- RUSH: 5 days ○ / 48 hours ○ / Other: ____days ○
- Preapproval required

TEMP °C
- Ukiah
- Livermore
- Elk Grove
- Petaluma 13.9
- Carlsbad

Relinquished by	Received by	Date	Time
Richard Lacy	[signature]	3/14/24	1327

DDW Write On EDT Transmission? ○ Yes ○ No

State System Number: _____

If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? ○ Yes ○ No

Global ID: Sampling Company Log Code:

EDF to (Email Address):

Travel and Site Time:	Mileage:	Misc. Supplies:

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San Diego Service Center
2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 24C2266 Pg ____ of ____

Report to	Invoice to (if different)	Project Information
Company: Bottle Rock Power	Contact:	Project ID: Bottle Rock Monitoring-SW
Attn: [redacted] Richard Lacy	Email address:	Project No:
Address: PO Box 326, Cobb, CA 95426	Address:	PO Number:
Phone/Fax: 707-529-3799	Phone/Fax:	
Email Address:		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature: Richard Lacy

Sample Identification	Sampling Date	Sampling Time	Container: 40ml VOA Vial	Container: Plastic	Container: Glass	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: Other	Preservative: None	Matrix: Drinking Water	Matrix: Wastewater	Matrix: Soil	Matrix: Other	Total Number of Containers per Sample ID	ALK, Ph, ec	Turbidity & TSS	Hardness, SO4	B, Cu, Fe & Pb	Mn, Na & Zn	Diss. Oxygen	Bac-T	As, Cr, V, Hg	Notes / DDW Source Codes
SW-7	3/14/24	8:37		X	X												6	X	X	X	X	X	X	X	X	
SW-9	3/14/24	9:25		X	X												6	X	X	X	X	X	X	X	X	
SW-10	3/14/24	9:11		X	X												6	X	X	X	X	X	X	X	X	
SW-6	3/14/24	10:31		X	X												6	X	X	X	X	X	X	X	X	
SW-8	3/14/24	9:48		X	X												6	X	X	X	X	X	X	X	X	

TAT
- Standard 10 days ○
- RUSH: 5 days ○ / 48 hours ○ / Other: ____days ○
- Preapproval required

TEMP °C
- Ukiah
- Livermore
- Elk Grove
- Petaluma 13.9
- Carlsbad

Relinquished by	Received by	Date	Time
Richard Lacy	[signature]	3/14/24	1327

DDW Write On EDT Transmission? ○ Yes ○ No

State System Number: _____

If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? ○ Yes ○ No

Global ID: Sampling Company Log Code:

EDF to (Email Address):

Travel and Site Time:	Mileage:	Misc. Supplies:

WORK ORDER

24C2266

1.6°C

Printed: 3/14/2024 3:11:00PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Bottle Rock Power**	**Client Code:**	**NB_BOTTLEROCK**	**Bid:**	**Master Bid**
Project:	**Surface Water**	**Project Number:**	**Bottle Rock Monitoring - SW**	**PO #:**	

Date Due: 03/28/24 15:00 (10 day TAT)
Received By: Luke Andrew Smith — Date Received: 03/14/24 13:21
Logged In By: Luke Andrew Smith — Date Logged 03/14/24 13:28

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24C2266-01 SW-7 [Water] Sampled 03/14/24 08:37			
Diss Oxygen SM4500	Wet Chem	03/14/24 08:51	
Hg CVAA Total 245.1	Metals	04/11/24 23:59	
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	
24C2266-02 SW-9 [Water] Sampled 03/14/24 09:25			
Diss Oxygen SM4500	Wet Chem	03/14/24 09:39	
Hg CVAA Total 245.1	Metals	04/11/24 23:59	
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	
24C2266-03 SW-10 [Water] Sampled 03/14/24 09:11			
Diss Oxygen SM4500	Wet Chem	03/14/24 09:25	
Hg CVAA Total 245.1	Metals	04/11/24 23:59	
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	
24C2266-04 SW-6 [Water] Sampled 03/14/24 10:31			
Diss Oxygen SM4500	Wet Chem	03/14/24 10:45	
Hg CVAA Total 245.1	Metals	04/11/24 23:59	
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	
24C2266-05 SW-8 [Water] Sampled 03/14/24 09:48			
Diss Oxygen SM4500	Wet Chem	03/14/24 10:02	
Hg CVAA Total 245.1	Metals	04/11/24 23:59	
Solids, TSS-SM2540D	Wet Chem	03/21/24 23:59	

Relinquished By	Date	Received By	Date	Tim
	3-14-24		3-14-24	1515
JW	3-14-24	JW	3-14-24	2230

24C2266

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Bottle Rock Power**	**Client Code:**	**NB_BOTTLEROCK**	**Bid:**	**Master Bid**
Project:	**Surface Water**	**Project Number:**	**Bottle Rock Monitoring - SW**	**PO #:**	

Containers Supplied:

1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)

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18 June 2024

Mayacma Geothermal LLC
Attn: Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501
RE: Ground Water
Work Order: 24E4445

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 13:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	06/18/24 09:02

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	24E4445-01	Water	05/30/24 10:20	05/30/24 13:20
GW-3	24E4445-02	Water	05/30/24 10:45	05/30/24 13:20

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	06/18/24 09:02

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24E4445-01)			**Sample Type: Water**			**Sampled: 05/30/24 10:20**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Calcium	**48**	**mg/L**	**5.0**	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Magnesium	**15**	**mg/L**	**0.60**	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Manganese	**0.11**	**mg/L**	**0.020**	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Sodium	**8.7**	**mg/L**	**6.0**	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**7.56**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**400**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**182**	**mg/L**	**15**	1	AE45025	05/31/24 07:06	05/31/24 11:54	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AE45000	05/30/24 14:51	05/30/24 17:09	2303	EPA 300.0	
Sulfate as SO4	**21**	**mg/L**	**1.0**	2	AE45000	05/30/24 14:51	05/31/24 19:25	2303	EPA 300.0	
GW-3 (24E4445-02)			**Sample Type: Water**			**Sampled: 05/30/24 10:45**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Boron	**0.41**	**mg/L**	**0.10**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Calcium	**34**	**mg/L**	**5.0**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Iron	**0.20**	**mg/L**	**0.10**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Magnesium	**10**	**mg/L**	**0.60**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Manganese	**0.046**	**mg/L**	**0.020**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Sodium	**26**	**mg/L**	**6.0**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	EPA 200.7	

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	06/18/24 09:02

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24E4445-02)			**Sample Type: Water**				**Sampled: 05/30/24 10:45**			
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**7.74**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**360**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**170**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**127**	**mg/L**	**15**	1	AE45025	05/31/24 07:06	05/31/24 11:57	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AE45000	05/30/24 14:51	05/30/24 17:22	2303	EPA 300.0	
Sulfate as SO4	**6.3**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 17:22	2303	EPA 300.0	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	06/18/24 09:02

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
T-14	Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc. 208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24E4445 Page_____of_____

Signature below authorizes work under terms stated on reverse side.

Company Name: Mayacma Geothermal LLC	**Project Name:** Ground Water	**Project Number:**
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501	**Project Address:**	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	**P.O. #**	**Quote #**
Phone/Fax: 775-260-8351	**Bill to:** Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Analysis Request

All samples
Metals by EPA 200
As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn

Conventional Chemistry Parameters by APHA/EPA Methods:
pH, Specific conductance (EC), Total Alk as CaCO3, TSS, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Nitrate as N, Sulfate as SO4

Reference Work Order: 24C2269 for list

TAT: 24 hr ○ | 48 hr ○ | *Lab Approval Required* | 1 wk ○ | 2 wk (standard) ○

For Lab Use Only: 2.2°C

Samplers Signature:	Sampling		Container					Preservative					Matrix		
Sample Designation	**Date**	**Time**	40ml VOA	Poly	Amber	Sleeve		HCL	HNO3	H2SO4		None	Water	Soil	
GW-1	5/30/24	10:20													
GW-3	5/30/24	10:45													

Relinquished by: Lucas Peters Lucas Peters	Received by:	5/30/24	Time 1:20pm
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):
Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:

WORK ORDER

Printed: 5/30/2024 2:05:59PM

24E4445

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	
Project:	**Ground Water**	**Project Number:**	**[none]**	**PO #:**	

Date Due:	06/13/24 15:00 (10 day TAT)		
Received By:	Stephen F. McWeeney	Date Received:	05/30/24 13:20
Logged In By:	Cade J Burkhammer	Date Logged	05/30/24 13:26

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24E4445-01 GW-3 [Water] Sampled 05/30/24 10:20			
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	
24E4445-02 GW-1 [Water] Sampled 05/30/24 10:45			
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	

Containers Supplied:

1L Poly - Unpres (C)

1L Poly - Unpres (C)

Relinquished By	Date	Received By	Date Tim
5-30-24		5-30-24 1515	
Relinquished By	Date	Received By	Date Tim
5-30-24		5-30-24	

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14 June 2024

Mayacma Geothermal LLC
Attn: Mayacma Geothermal LLC
245 E Liberty St Suite 520
Reno, NV 89501
RE: Surface Water
Work Order: 24E4450

Enclosed are the results of analyses for samples received by the laboratory on 05/30/24 13:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	24E4450-01	Water	05/30/24 08:50	05/30/24 13:20
SW-7	24E4450-02	Water	05/30/24 10:30	05/30/24 13:20
SW-8	24E4450-03	Water	05/30/24 09:30	05/30/24 13:20
SW-9	24E4450-04	Water	05/30/24 10:10	05/30/24 13:20
SW-10	24E4450-05	Water	05/30/24 09:50	05/30/24 13:20

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24E4450-01)			**Sample Type: Water**			**Sampled: 05/30/24 08:50**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Calcium	**14**	**mg/L**	**5.0**	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Chromium	**0.011**	**mg/L**	**0.010**	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Magnesium	**24**	**mg/L**	**0.60**	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF43269	06/05/24 06:05	06/05/24 13:02	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AE45076	05/31/24 16:00	05/31/24 17:00	1551	SM4500-O G	T-14
pH	**8.10**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**290**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**130**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	**5.9**	**mg/L**	**1.0**	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**130**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**134**	**mg/L**	**15**	1	AE45023	05/31/24 06:22	05/31/24 12:34	2303	SM2340B	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24E4450-01)			**Sample Type: Water**				**Sampled: 05/30/24 08:50**			
Anions by EPA Method 300.0										
Sulfate as SO4	**3.5**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 18:01	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	>2419.6	MPN/100mL	1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
E. Coli	**93**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
SW-7 (24E4450-02)			**Sample Type: Water**				**Sampled: 05/30/24 10:30**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Boron	**0.13**	**mg/L**	**0.10**	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Calcium	**17**	**mg/L**	**5.0**	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Magnesium	**16**	**mg/L**	**0.60**	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF43269	06/05/24 06:05	06/05/24 13:13	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (24E4450-02)			**Sample Type: Water**				**Sampled: 05/30/24 10:30**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**9.3**	**mg/L**	**0.10**	1	AE45076	05/31/24 16:00	05/31/24 17:00	1551	SM4500-O G	T-14
pH	**7.60**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**290**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**110**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	**2.3**	**mg/L**	**1.0**	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**110**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**107**	**mg/L**	**15**	1	AE45025	05/31/24 07:06	05/31/24 12:00	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**9.1**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 18:14	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**1700**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
E. Coli	**9.7**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
SW-8 (24E4450-03)			**Sample Type: Water**				**Sampled: 05/30/24 09:30**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Boron	**0.10**	**mg/L**	**0.10**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Calcium	**30**	**mg/L**	**5.0**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Magnesium	**47**	**mg/L**	**0.60**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Manganese	**0.021**	**mg/L**	**0.020**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF43269	06/05/24 06:05	06/05/24 13:34	1551	EPA 245.1	
Sodium	**6.7**	**mg/L**	**6.0**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (24E4450-03)			**Sample Type: Water**				**Sampled: 05/30/24 09:30**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**9.8**	**mg/L**	**0.10**	1	AE45076	05/31/24 16:00	05/31/24 17:00	1551	SM4500-O G	T-14
pH	**7.90**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**540**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**260**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	**3.2**	**mg/L**	**1.0**	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	**1.2**	**NTU**	**1.0**	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**260**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**269**	**mg/L**	**15**	1	AE45023	05/31/24 06:22	05/31/24 12:37	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**14**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 18:27	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	>2419.6	MPN/100mL	1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
E. Coli	**46**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
SW-9 (24E4450-04)			**Sample Type: Water**				**Sampled: 05/30/24 10:10**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Calcium	**7.6**	**mg/L**	**5.0**	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Magnesium	**3.9**	**mg/L**	**0.60**	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF43269	06/05/24 06:05	06/05/24 13:36	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	EPA 200.7	

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (24E4450-04)			**Sample Type: Water**				**Sampled: 05/30/24 10:10**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**10**	**mg/L**	**0.10**	1	AE45076	05/31/24 16:00	05/31/24 17:00	1551	SM4500-O G	T-14
pH	**7.53**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**95**	**umhos/cm@25°**	**10**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**42**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	**1.2**	**mg/L**	**1.0**	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**42**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**35**	**mg/L**	**15**	1	AE45025	05/31/24 07:06	05/31/24 12:03	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**2.2**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 18:40	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	>2419.6	MPN/100mL	1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
E. Coli	**63**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
SW-10 (24E4450-05)			**Sample Type: Water**				**Sampled: 05/30/24 09:50**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Calcium	**7.4**	**mg/L**	**5.0**	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Iron	**0.13**	**mg/L**	**0.10**	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Magnesium	**5.7**	**mg/L**	**0.60**	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF43269	06/05/24 06:05	06/05/24 13:39	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (24E4450-05)			**Sample Type: Water**				**Sampled: 05/30/24 09:50**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**10**	**mg/L**	**0.10**	1	AE45076	05/31/24 16:00	05/31/24 17:00	1551	SM4500-O G	T-14
pH	**7.54**	**pH Units**	**1.68**	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	ND	umhos/cm@25°C	10	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	**52**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Total Suspended Solids	**3.3**	**mg/L**	**1.0**	1	AF43105	06/03/24 09:21	06/04/24 11:30	1551	SM2540D	
Turbidity	**2.2**	**NTU**	**1.0**	1	AE45016	05/30/24 17:24	05/30/24 17:29	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**52**	**mg/L**	**30**	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	30	1	AE45070	05/31/24 14:55	05/31/24 16:00	2303	SM2320B	
Hardness, Total	**42**	**mg/L**	**15**	1	AE45023	05/31/24 06:22	05/31/24 12:40	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**2.0**	**mg/L**	**0.50**	1	AE45000	05/30/24 14:51	05/30/24 18:53	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	>2419.6	MPN/100mL	1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	
E. Coli	**53**	**MPN/100mL**	**1.0**	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303	SM9223B	

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Mayacma Geothermal LLC	Project Manager: Mayacma Geothermal LLC	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	06/14/24 16:18

Notes and Definitions

>2419.6	>2419.6
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
T-14	Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24C4450 Page ____ of ____

Company Name: Mayacma Geothermal LLC	**Project Name:** Surface Water	**Project Number:**
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501	**Project Address:**	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	**P.O. #**	**Quote #**
Phone/Fax: 775-260-8351	**Bill to:** Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Sample Designation	Date	Time	Sampling	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative:	Preservative: None	Matrix: Water	Matrix: Soil
SW-6	5/30/24	09:50													
SW-7	"	10:30													
SW-8	"	09:30													
SW-9	"	10:10													
SW-10	"	09:50													

Samplers Signature:

Analysis Request

All Samples:
Metals by EPA 200 Series Methods
As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Na, V, Zn

Conventional Chemistry Parameters by APHA/EPA Methods
Dissolved Oxygen, pH, Specific Conductance (EC), Total Alkalinity as CaCO3, Total Suspended Solids, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Sulfate as SO4

Microbiological Parameters by APHA Standard Methods
Total Coliforms, E. Coli

Reference Work Order: 24C2266 for list

TAT

24 hr ○
48 hr ○
Lab Approval Required
1 wk ○
2 wk (standard) ○

For Lab Use Only

2.2°C

Relinquished by: Lucas Peters	Received by:	Date: 5/30/24	Time: 1:20 pm
Relinquished by:	Received by:	Date:	Time:
Relinquished by:	Received for Laboratory by:	Date:	Time:

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:

WORK ORDER

24E4450

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Date Due:	06/13/24 15:00 (10 day TAT)		
Received By:	Stephen F. McWeeney	Date Received:	05/30/24 13:20
Logged In By:	Cade J Burkhammer	Date Logged	05/30/24 13:53

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24E4450-01 SW-6 [Water] Sampled 05/30/24 08:50			
Diss Oxygen SM4500	Wet Chem	05/30/24 09:04	
Hg CVAA Total 245.1	Metals	06/27/24 23:59	
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	
24E4450-02 SW-7 [Water] Sampled 05/30/24 10:30			
Diss Oxygen SM4500	Wet Chem	05/30/24 10:44	
Hg CVAA Total 245.1	Metals	06/27/24 23:59	
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	
24E4450-03 SW-8 [Water] Sampled 05/30/24 09:30			
Diss Oxygen SM4500	Wet Chem	05/30/24 09:44	
Hg CVAA Total 245.1	Metals	06/27/24 23:59	
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	
24E4450-04 SW-9 [Water] Sampled 05/30/24 10:10			
Diss Oxygen SM4500	Wet Chem	05/30/24 10:24	
Hg CVAA Total 245.1	Metals	06/27/24 23:59	
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	
24E4450-05 SW-10 [Water] Sampled 05/30/24 09:50			
Diss Oxygen SM4500	Wet Chem	05/30/24 10:04	
Hg CVAA Total 245.1	Metals	06/27/24 23:59	
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:59	

Relinquished By	5-30-24 Date	Received By	5-30-24 1515 Date Tim
Relinquished By	5-30-24 Date	Received By	5-30-24 Date Tim

wko_NBtoUK_COC.rpt

WORK ORDER

24E4450

Printed: 5/30/2024 2:05:00PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Containers Supplied:

1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)

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21 October 2024

Mayacma Geothermal LLC
Attn: John
245 E Liberty St Suite 520
Reno, NV 89501
RE: Ground Water
Work Order: 24J1843

Enclosed are the results of analyses for samples received by the laboratory on 10/09/24 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	10/21/24 12:14

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	24J1843-01	Water	10/09/24 10:18	10/09/24 13:35
GW-3	24J1843-02	Water	10/09/24 10:40	10/09/24 13:35

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	10/21/24 12:14

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24J1843-01)			**Sample Type: Water**			**Sampled: 10/09/24 10:18**				
Metals by EPA 200 Series Methods										
Boron	ND	mg/L	0.10	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Calcium	**42**	**mg/L**	**5.0**	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Magnesium	**14**	**mg/L**	**0.60**	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Manganese	**0.10**	**mg/L**	**0.020**	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Sodium	**8.1**	**mg/L**	**6.0**	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44385	10/17/24 08:54	10/17/24 15:21	2303	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**7.83**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**380**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**164**	**mg/L**	**15**	1	AJ43839	10/10/24 07:52	10/10/24 11:08	2303	SM2340B	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	10/21/24 12:14

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24J1843-01)			**Sample Type: Water**			**Sampled: 10/09/24 10:18**				
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AJ43771	10/09/24 16:36	10/09/24 19:25	2303	EPA 300.0	
Sulfate as SO4	**20**	**mg/L**	**0.50**	1	AJ43771	10/09/24 16:36	10/09/24 19:25	2303	EPA 300.0	
GW-3 (24J1843-02)			**Sample Type: Water**			**Sampled: 10/09/24 10:40**				
Metals by EPA 200 Series Methods										
Boron	**0.43**	**mg/L**	**0.10**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Calcium	**31**	**mg/L**	**5.0**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Iron	**0.54**	**mg/L**	**0.10**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Magnesium	**9.7**	**mg/L**	**0.60**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Manganese	**0.050**	**mg/L**	**0.020**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Sodium	**24**	**mg/L**	**6.0**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44493	10/18/24 10:44	10/18/24 12:55	2303	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**7.96**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**350**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	**4.9**	**mg/L**	**1.0**	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	**2.1**	**NTU**	**1.0**	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**180**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**118**	**mg/L**	**15**	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	SM2340B	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	10/21/24 12:14

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24J1843-02)			**Sample Type: Water**				**Sampled: 10/09/24 10:40**			
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AJ43771	10/09/24 16:36	10/09/24 19:38	2303	EPA 300.0	
Sulfate as SO4	**5.5**	**mg/L**	**0.50**	1	AJ43771	10/09/24 16:36	10/09/24 19:38	2303	EPA 300.0	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	10/21/24 12:14

Notes and Definitions

T-06 Sample analyzed outside of recommended holding time.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc. 208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 245843 Page 1 of 1

Company Name: Mayacma Geothermal LLC	Project Name: **Ground Water**	Project Number:
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501	Project Address:	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	P.O. #	Quote #
Phone/Fax: 775-260-8351	Bill to: Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Analysis Request

All samples:
Metals by EPA 200
As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn

Conventional Chemistry Parameters by APHA/EPA Methods:
pH, Specific conductance (EC), Total Alk as CaCO3, TSS, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Nitrate as N, Sulfate as SO4

Reference Work Order: 24E4445 for complete list.

Please porvide report as PDF and excel.

TAT

- 24 hr ○
- 48 hr ○
- *Lab Approval Required*
- 1 wk ○
- 2 wk (standard) ○

1.3

For Lab Use Only

Samplers Signature: Lucas Potter

Sample Designation	Sampling: Date	Sampling: Time	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative:	Preservative: None	Matrix: Water	Matrix: Soil	Matrix:
GW-1	10/9/24	10:18													
GW-3	10/9/24	10:40													

Relinquished by: Lucas Potter	Received by: AK	10-9-24	Time: 13:35
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:

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25 October 2024

Mayacma Geothermal LLC
Attn: John
245 E Liberty St Suite 520
Reno, NV 89501
RE: Surface Water
Work Order: 24J1848

Enclosed are the results of analyses for samples received by the laboratory on 10/09/24 13:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	24J1848-01	Water	10/09/24 08:50	10/09/24 13:35
SW-8	24J1848-02	Water	10/09/24 09:50	10/09/24 13:35
SW-9	24J1848-03	Water	10/09/24 10:05	10/09/24 13:35
SW-10	24J1848-04	Water	10/09/24 09:26	10/09/24 13:35

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24J1848-01)			**Sample Type: Water**			**Sampled: 10/09/24 08:50**				
Metals by EPA 200 Series Methods										
Boron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Calcium	**11**	**mg/L**	**5.0**	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Magnesium	**21**	**mg/L**	**0.60**	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AJ44765	10/23/24 05:56	10/24/24 13:47	1551	EPA 245.1	
Sodium	**6.3**	**mg/L**	**6.0**	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44385	10/17/24 08:54	10/17/24 15:45	2303	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**10**	**mg/L**	**0.10**	1	AJ44128	10/10/24 16:00	10/10/24 17:00	1551	SM4500-O G	T-14
pH	**8.17**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**250**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**130**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	**130**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**116**	**mg/L**	**15**	1	AJ43832	10/10/24 06:09	10/10/24 11:45	2303	SM2340B	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24J1848-01)			**Sample Type: Water**				**Sampled: 10/09/24 08:50**			
Anions by EPA Method 300.0										
Sulfate as SO4	**1.1**	**mg/L**	**0.50**	1	AJ43771	10/09/24 16:36	10/09/24 19:51	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**1700**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
E. Coli	**150**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
SW-8 (24J1848-02)			**Sample Type: Water**				**Sampled: 10/09/24 09:50**			
Metals by EPA 200 Series Methods										
Boron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Calcium	**7.2**	**mg/L**	**5.0**	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Magnesium	**5.2**	**mg/L**	**0.60**	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AJ44765	10/23/24 05:56	10/24/24 13:50	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44307	10/17/24 09:00	10/18/24 15:27	2303	EPA 200.8	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (24J1848-02)			**Sample Type: Water**			**Sampled: 10/09/24 09:50**				
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**10**	**mg/L**	**0.10**	1	AJ44128	10/10/24 16:00	10/10/24 17:00	1551	SM4500-O G	T-14
pH	**7.91**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**110**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**56**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	**1.5**	**mg/L**	**1.0**	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	**1.2**	**NTU**	**1.0**	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	**56**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**39**	**mg/L**	**15**	1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	ND	mg/L	0.50	1	AJ43771	10/09/24 16:36	10/09/24 20:04	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**1100**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
E. Coli	**91**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
SW-9 (24J1848-03)			**Sample Type: Water**			**Sampled: 10/09/24 10:05**				
Metals by EPA 200 Series Methods										
Boron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Calcium	ND	mg/L	5.0	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Magnesium	**2.4**	**mg/L**	**0.60**	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AJ44765	10/23/24 05:56	10/24/24 13:53	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (24J1848-03)			**Sample Type: Water**				**Sampled: 10/09/24 10:05**			
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44385	10/17/24 08:54	10/17/24 15:52	2303	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**10**	**mg/L**	**0.10**	1	AJ44128	10/10/24 16:00	10/10/24 17:00	1551	SM4500-O G	T-14
pH	**7.54**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**66**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**33**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	**33**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**20**	**mg/L**	**15**	1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**0.66**	**mg/L**	**0.50**	1	AJ43771	10/09/24 16:36	10/09/24 20:17	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**870**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
E. Coli	**43**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
SW-10 (24J1848-04)			**Sample Type: Water**				**Sampled: 10/09/24 09:26**			
Metals by EPA 200 Series Methods										
Boron	ND	mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Calcium	**8.5**	**mg/L**	**5.0**	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Iron	**0.12**	**mg/L**	**0.10**	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Magnesium	**6.2**	**mg/L**	**0.60**	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AJ44765	10/23/24 05:56	10/24/24 13:55	1551	EPA 245.1	
Sodium	**6.2**	**mg/L**	**6.0**	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	EPA 200.7	

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (24J1848-04)			**Sample Type: Water**			**Sampled: 10/09/24 09:26**				
Metals by EPA Method 200.8 ICP/MS										
Arsenic	ND	ug/L	2.0	1	AJ44307	10/17/24 09:00	10/18/24 15:46	2303	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AJ44128	10/10/24 16:00	10/10/24 17:00	1551	SM4500-O G	T-14
pH	**7.94**	**pH Units**	**1.68**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**120**	**umhos/cm@25°**	**10**	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3	**62**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Total Suspended Solids	**1.4**	**mg/L**	**1.0**	1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551	SM2540D	
Turbidity	**1.4**	**NTU**	**1.0**	1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	**62**	**mg/L**	**30**	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	**47**	**mg/L**	**15**	1	AJ43832	10/10/24 06:09	10/10/24 11:54	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	ND	mg/L	0.50	1	AJ43771	10/09/24 16:36	10/09/24 20:30	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**980**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	
E. Coli	**76**	**MPN/100mL**	**1.0**	1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303	SM9223B	

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Mayacma Geothermal LLC	Project Manager: John	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	10/25/24 11:11

Notes and Definitions

T-06 Sample analyzed outside of recommended holding time.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24J1848 Page 1 of 1

Company Name:	Project Name:	Project Number:
Mayacma Geothermal LLC	Surface Water	
Mailing Address:	Project Address:	
245 E Liberty St Suite 520 Reno, NV 89501		
Project Contact (Hardcopy or PDF to):	P.O. #	Quote #
John Casteel John@openmountainenergy.com		
Phone/Fax:	Bill to: Mayacma Geothermal LLC	
775-260-8351	245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Samplers Signature:	Sampling		Container					Preservative					Matrix		
Sample Designation	Date	Time	40ml VOA	Poly	Amber	Sleeve		HCL	HNO3	H2SO4		None	Water	Soil	
SW-6	10/4/24	08:50													
~~SW-7~~ No sample, dry creek															
SW-8		09:50													
SW-9		10:05													
SW-10		09:26													

Analysis Request

All Samples:
Metals by EPA 200 Series Methods
As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Na, V, Zn

Conventional Chemistry Parameters by APHA/EPA Methods
Dissolved Oxygen, pH, Specific Conductance (EC), Total Alkalinity as CaCO3, Total Suspended Solids, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Sulfate as SO4

Microbiological Parameters by APHA Standard Methods
Total Coliforms, E. Coli

Reference Work Order: 24E4450 for list
Please provide report as PDF and excel.

TAT

- 24 hr ◯
- 48 hr ◯ *Lab Approval Required*
- 1 wk ◯
- 2 wk (standard) ◯

1-3

For Lab Use Only

Relinquished by:	Received by:	Date	Time
Lucy Potter	AC	10-9-24	13:35
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ◯ Yes ◯ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt:	Travel and Site Time:	Mileage:	Misc. Supplies:

wko_NBtoUK_COC.rpt

WORK ORDER

24J1848

2.1°C

Printed: 10/9/2024 4:54:29PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Date Due:	10/23/24 15:00 (10 day TAT)		
Received By:	Alicia Clark	Date Received:	10/09/24 13:35
Logged In By:	Cade J Burkhammer	Date Logged	10/09/24 15:24

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24J1848-01 SW-6 [Water] Sampled 10/09/24 08:50			
Diss Oxygen SM4500	Wet Chem	10/09/24 09:04	
Hg CVAA Total 245.1	Metals	11/06/24 23:59	
Solids, TSS-SM2540D	Wet Chem	10/16/24 23:59	
24J1848-02 SW-8 [Water] Sampled 10/09/24 09:50			
Diss Oxygen SM4500	Wet Chem	10/09/24 10:04	
Hg CVAA Total 245.1	Metals	11/06/24 23:59	
Solids, TSS-SM2540D	Wet Chem	10/16/24 23:59	
24J1848-03 SW-9 [Water] Sampled 10/09/24 10:05			
Diss Oxygen SM4500	Wet Chem	10/09/24 10:19	
Hg CVAA Total 245.1	Metals	11/06/24 23:59	
Solids, TSS-SM2540D	Wet Chem	10/16/24 23:59	
24J1848-04 SW-10 [Water] Sampled 10/09/24 09:26			
Diss Oxygen SM4500	Wet Chem	10/09/24 09:40	
Hg CVAA Total 245.1	Metals	11/06/24 23:59	
Solids, TSS-SM2540D	Wet Chem	10/16/24 23:59	

Relinquished By	Date	Received By	Date Tim
	10-10-24		10-10-24 0740
Relinquished By	Date	Received By	Date Tim
	10-10-24		10-10-24 0845

wko_NBtoUK_COC.rpt

WORK ORDER

24J1848

Printed: 10/9/2024 4:54:29PM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Containers Supplied:

1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
1L Poly - Unpres (F)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
250mL Poly HNO3 (E)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)
VOA Vial - Unpres (D)

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

12 December 2024

Mayacma Geothermal LLC
Attn: John Casteel
245 E Liberty St Suite 520
Reno, NV 89501
RE: Ground Water
Work Order: 24L1000

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 13:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:38

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-1	24L1000-01	Water	12/04/24 08:56	12/04/24 13:17
GW-3	24L1000-02	Water	12/04/24 09:39	12/04/24 13:17

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:38

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24L1000-01)			**Sample Type: Water**			**Sampled: 12/04/24 08:56**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Calcium	**48**	**mg/L**	**5.0**	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Magnesium	**15**	**mg/L**	**0.60**	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Manganese	**0.11**	**mg/L**	**0.020**	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Sodium	**8.8**	**mg/L**	**6.0**	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**8.18**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**390**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**190**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AL43638	12/06/24 09:15	12/09/24 14:45	1551	SM2540D	
Turbidity	ND	NTU	0.50	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**190**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**183**	**mg/L**	**15**	1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AL43561	12/05/24 11:10	12/05/24 16:04	2303	EPA 300.0	
Sulfate as SO4	**20**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 16:04	2303	EPA 300.0	
GW-3 (24L1000-02)			**Sample Type: Water**			**Sampled: 12/04/24 09:39**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Boron	**0.41**	**mg/L**	**0.10**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Calcium	**33**	**mg/L**	**5.0**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Iron	**2.0**	**mg/L**	**0.10**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Magnesium	**10**	**mg/L**	**0.60**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Manganese	**0.087**	**mg/L**	**0.020**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Sodium	**26**	**mg/L**	**6.0**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:38

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24L1000-02)			**Sample Type: Water**				**Sampled: 12/04/24 09:39**			
Conventional Chemistry Parameters by APHA/EPA Methods										
pH	**8.08**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**340**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**170**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	**5.3**	**mg/L**	**1.0**	1	AL43638	12/06/24 09:15	12/09/24 14:45	1551	SM2540D	
Turbidity	**14**	**NTU**	**0.50**	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**170**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**123**	**mg/L**	**15**	1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AL43561	12/05/24 11:10	12/05/24 16:17	2303	EPA 300.0	
Sulfate as SO4	**4.3**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 16:17	2303	EPA 300.0	

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Ground Water	Reported:
Reno, NV 89501	Project Number: [none]	12/12/24 14:38

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
T-14	Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

0.1C

Work Order
Chain of Custody Record

Alpha Analytical Laboratories Inc.
208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24L1000 Page 1 of 1

Company Name:	Project Name:	Project Number:
Mayacma Geothermal LLC	**Ground Water**	
Mailing Address:	Project Address:	
245 E Liberty St Suite 520 Reno, NV 89501		
Project Contact (Hardcopy or PDF to):	P.O. #	Quote #
John Casteel John@openmountainenergy.com		
Phone/Fax:	Bill to: Mayacma Geothermal LLC	
775-260-8351	245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Samplers Signature: [signature]

Sample Designation	Sampling: Date	Sampling: Time	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative:	Preservative: None	Matrix: Water	Matrix: Soil	Matrix:
GW-1	12/4/24	9:56													
GW-3	11	9:39													

Analysis Request

All samples:
Metals by EPA 200
As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn

Conventional Chemistry Parameters by APHA/EPA Methods:
pH, Specific conductance (EC), Total Alk as CaCO3, TSS, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Nitrate as N, Sulfate as SO4

Reference Work Order: 24E4445 for complete list.

Please porvide report as PDF and excel.

TAT

- 24 hr ○
- 48 hr ○ *Lab Approval Required*
- 1 wk ○
- 2 wk (standard) ○

For Lab Use Only

Relinquished by:	Received by:	Date	Time
[signature]	[signature]	12/4/24	1317
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Sample Condition on Receipt: | Travel and Site Time: | Mileage: | Misc. Supplies:

WORK ORDER

24L1000

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	**Services List**
Project:	**Ground Water**	**Project Number:**	**[none]**	**PO #:**	

Date Due:	12/18/24 15:00 (10 day TAT)		
Received By:	Ziggie V Burnside	Date Received:	12/04/24 13:13
Logged In By:	Stephen F. McWeeney	Date Logged	12/05/24 08:35

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24L1000-01 GW-1 [Water] Sampled 12/04/24 08:56			
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	
24L1000-02 GW-3 [Water] Sampled 12/04/24 09:39			
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	

Containers Supplied:

1L Poly - Unpres (A)

1L Poly - Unpres (A)

250mL Poly HNO3 (C)

250mL Poly HNO3 (C)

4.0

Relinquished By	12/5/24 Date	Received By	12/5/24 Date Tim
Relinquished By	12/5/24 Date	Received By	12-5-24 1015 Date Tim

1515

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

18 December 2024

Mayacma Geothermal LLC
Attn: John Casteel
245 E Liberty St Suite 520
Reno, NV 89501
RE: Surface Water
Work Order: 24L1003

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 13:17. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney
Project Manager

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922
North Bay: 737 Southpoint Blvd Unit D| Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055
Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-6	24L1003-01	Water	12/04/24 07:40	12/04/24 13:17
SW-7	24L1003-02	Water	12/04/24 09:08	12/04/24 13:17
SW-8	24L1003-03	Water	12/04/24 08:23	12/04/24 13:17
SW-9	24L1003-04	Water	12/04/24 08:41	12/04/24 13:17
SW-10	24L1003-05	Water	12/04/24 08:34	12/04/24 13:17

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24L1003-01)			**Sample Type: Water**			**Sampled: 12/04/24 07:40**				
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Calcium	**12**	**mg/L**	**5.0**	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Magnesium	**18**	**mg/L**	**0.60**	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AL44388	12/16/24 13:36	12/17/24 13:59	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AL43778	12/06/24 16:00	12/06/24 17:00	1551	SM4500-O G	T-14
pH	**8.26**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**220**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**110**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	**0.91**	**NTU**	**0.50**	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**110**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**103**	**mg/L**	**15**	1	AL43676	12/09/24 06:10	12/09/24 08:11	2303	SM2340B	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (24L1003-01)			**Sample Type: Water**				**Sampled: 12/04/24 07:40**			
Anions by EPA Method 300.0										
Sulfate as SO4	**4.1**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 16:42	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**730**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	**20**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
SW-7 (24L1003-02)			**Sample Type: Water**				**Sampled: 12/04/24 09:08**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Boron	**0.15**	**mg/L**	**0.10**	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Calcium	**16**	**mg/L**	**5.0**	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Magnesium	**15**	**mg/L**	**0.60**	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AL44388	12/16/24 13:36	12/17/24 13:17	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (24L1003-02)			**Sample Type: Water**				**Sampled: 12/04/24 09:08**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**8.9**	**mg/L**	**0.10**	1	AL43778	12/06/24 16:00	12/06/24 17:00	1551	SM4500-O G	T-14
pH	**7.90**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**210**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**100**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	ND	NTU	0.50	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**100**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**102**	**mg/L**	**15**	1	AL43676	12/09/24 06:10	12/09/24 08:14	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**8.4**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 16:55	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**410**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	**23**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
SW-8 (24L1003-03)			**Sample Type: Water**				**Sampled: 12/04/24 08:23**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Calcium	**7.1**	**mg/L**	**5.0**	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Magnesium	**5.2**	**mg/L**	**0.60**	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AL44388	12/16/24 13:36	12/17/24 14:02	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (24L1003-03)			**Sample Type: Water**				**Sampled: 12/04/24 08:23**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AL43778	12/06/24 16:00	12/06/24 17:00	1551	SM4500-O G	T-14
pH	**7.96**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**100**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**49**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	**1.2**	**mg/L**	**1.0**	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	**2.1**	**NTU**	**0.50**	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**49**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**39**	**mg/L**	**15**	1	AL43635	12/06/24 05:45	12/09/24 07:17	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**1.5**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 17:08	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**730**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	**47**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
SW-9 (24L1003-04)			**Sample Type: Water**				**Sampled: 12/04/24 08:41**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Calcium	**6.7**	**mg/L**	**5.0**	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Magnesium	**3.7**	**mg/L**	**0.60**	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AL44388	12/16/24 13:36	12/17/24 14:05	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (24L1003-04)			**Sample Type: Water**				**Sampled: 12/04/24 08:41**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AL43778	12/06/24 16:00	12/06/24 17:00	1551	SM4500-O G	T-14
pH	**7.85**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**87**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**41**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	**0.53**	**NTU**	**0.50**	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**41**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**32**	**mg/L**	**15**	1	AL43676	12/09/24 06:10	12/09/24 08:18	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**2.0**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 17:21	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**330**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	**3.1**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
SW-10 (24L1003-05)			**Sample Type: Water**				**Sampled: 12/04/24 08:34**			
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Calcium	**7.0**	**mg/L**	**5.0**	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Iron	**0.11**	**mg/L**	**0.10**	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Magnesium	**5.9**	**mg/L**	**0.60**	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AL44388	12/16/24 13:36	12/17/24 14:07	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	EPA 200.7	

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Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (24L1003-05)			**Sample Type: Water**				**Sampled: 12/04/24 08:34**			
Conventional Chemistry Parameters by APHA/EPA Methods										
Dissolved Oxygen	**11**	**mg/L**	**0.10**	1	AL43778	12/06/24 16:00	12/06/24 17:00	1551	SM4500-O G	T-14
pH	**7.95**	**pH Units**	**1.68**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	**100**	**umhos/cm@25°**	**10**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	**49**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	**1.4**	**mg/L**	**1.0**	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	**3.0**	**NTU**	**0.50**	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	**49**	**mg/L**	**20**	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	**42**	**mg/L**	**15**	1	AL43635	12/06/24 05:45	12/09/24 07:20	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	**1.1**	**mg/L**	**0.50**	1	AL43561	12/05/24 11:10	12/05/24 17:34	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**730**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	**66**	**MPN/100mL**	**1.0**	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	

Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com
Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Mayacma Geothermal LLC	Project Manager: John Casteel	
245 E Liberty St Suite 520	Project: Surface Water	Reported:
Reno, NV 89501	Project Number: [none]	12/18/24 14:30

Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
T-14	Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.

Work Order
Chain of Custody Record

0.1C

Alpha Analytical Laboratories Inc. 208 Mason Street, Ukiah, California 95482
e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

Lab No. 24L1003 Page 1 of 1

Company Name:	Project Name:	Project Number:
Mayacma Geothermal LLC	Surface Water	
Mailing Address:	Project Address:	
245 E Liberty St Suite 520 Reno, NV 89501		
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	P.O. #	Quote #
Phone/Fax: 775-260-8351	Bill to: Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501 accounting@openmountainenergy.com	

Signature below authorizes work under terms stated on reverse side.

Samplers Signature: Lucas Patton

Sample Designation	Sampling: Date	Sampling: Time	Container: 40ml VOA	Container: Poly	Container: Amber	Container: Sleeve	Container:	Preservative: HCL	Preservative: HNO3	Preservative: H2SO4	Preservative:	Preservative: None	Matrix: Water	Matrix: Soil	Matrix:
SW-6	12/4/24	7:40													
SW-7	"	~~8:23~~ 9:08													
SW-8	"	8:23													
SW-9	"	8:41													
SW-10	"	8:34													

Analysis Request

All Samples:
Metals by EPA 200 Series Methods
As, B, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Na, V, Zn

Conventional Chemistry Parameters by APHA/EPA Methods
Dissolved Oxygen, pH, Specific Conductance (EC), Total Alkalinity as CaCO3, Total Suspended Solids, Turbidity, Bicarbonate Alkalinity as CaCO3, Carbonate Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3, Hardness

Anions by EPA Method 300.0
Sulfate as SO4

Microbiological Parameters by APHA Standard Methods
Total Coliforms, E. Coli

Reference Work Order: 24E4450 for list
Please provide report as PDF and excel.

TAT

- 24 hr ○
- 48 hr ○ *Lab Approval Required*
- 1 wk ○
- 2 wk (standard) ○

Relinquished by:	Received by:	Date	Time
Lucas Patton	ZB	12/4/24	1317
Relinquished by:	Received by:	Date	Time
Relinquished by:	Received for Laboratory by:	Date	Time

California EDF Report? ○ Yes ○ No
Sampling Company Log Code:
Global ID:
EDF to (Email Address):

Drinking Water State System/Source Number:

Travel and Site Time | Mileage | Misc. Supplies

WORK ORDER

24L1003

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	**Services List**
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Date Due:	12/18/24 15:00 (10 day TAT)		
Received By:	Ziggie V Burnside	Date Received:	12/04/24 13:17
Logged In By:	Stephen F. McWeeney	Date Logged	12/05/24 08:50

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24L1003-01 SW-6 [Water] Sampled 12/04/24 07:40			
Diss Oxygen SM4500	Wet Chem	12/04/24 07:54	
Hg CVAA Total 245.1	Metals	01/01/25 23:59	
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	
24L1003-02 SW-7 [Water] Sampled 12/04/24 09:08			
Diss Oxygen SM4500	Wet Chem	12/04/24 09:22	
Hg CVAA Total 245.1	Metals	01/01/25 23:59	
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	
24L1003-03 SW-8 [Water] Sampled 12/04/24 08:23			
Diss Oxygen SM4500	Wet Chem	12/04/24 08:37	
Hg CVAA Total 245.1	Metals	01/01/25 23:59	
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	
24L1003-04 SW-9 [Water] Sampled 12/04/24 08:41			
Diss Oxygen SM4500	Wet Chem	12/04/24 08:55	
Hg CVAA Total 245.1	Metals	01/01/25 23:59	
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	
24L1003-05 SW-10 [Water] Sampled 12/04/24 08:34			
Diss Oxygen SM4500	Wet Chem	12/04/24 08:48	
Hg CVAA Total 245.1	Metals	01/01/25 23:59	
Solids, TSS-SM2540D	Wet Chem	12/11/24 23:59	

4.0

12/5/24		12/5/24		
Relinquished By	Date	Received By	Date	Tim
12/5/24		12-5-24	1515	
Relinquished By	Date	Received By	Date	Tim

1511

24L1003

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client:	**Mayacma Geothermal LLC**	**Client Code:**	**NBSM_MGLLC**	**Bid:**	**Services List**
Project:	**Surface Water**	**Project Number:**	**[none]**	**PO #:**	

Containers Supplied:

1L Poly - Unpres (A)

1L Poly - Unpres (A)

1L Poly - Unpres (A)

1L Poly - Unpres (A)

1L Poly - Unpres (A)

VOA Vial - Unpres (D)

VOA Vial - Unpres (D)

VOA Vial - Unpres (D)

VOA Vial - Unpres (D)

VOA Vial - Unpres (D)