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



2024 CEC ANNUAL COMPLIANCE REPORT MAYACMA GEOTHERMAL LLC

<u>Appendix 3</u>

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





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



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



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



Mayacma Geothermal LLC 245 E Liberty St Suite 520	Projec	t Manager: John Project: Annu	Caste Ial Nee	el dles				R	eported:
Reno, NV 89501	Proje	ct Number: Pine	Needle	s				12/12/2	24 14:40
	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
A-1 Needles (24L1034-01)		Sample Type: O	Other (V	W)	Sampled	l: 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 E	EPA 6010B	
A-2 Needles (24L1034-02)		Sample Type: O	Other (V	N)	Sampled	l: 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 10:4	42 2303 E	PA 6010B	
B-1 Needles (24L1034-03)		Sample Type: C	Other (V	N)	Sampled	l: 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 10:4	45 2303 E	PA 6010B	
B-2 Needles (24L1034-04)		Sample Type: C	Other (V	N)	Sampled	l: 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 10:4	49 2303 E	EPA 6010B	
B-3 Needles (24L1034-05)		Sample Type: C	Other (V	W)	Sampled	l: 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 E	PA 6010B	
C-1 Needles (24L1034-06)		Sample Type: C	Other (V	N)	Sampled	l: 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 E	EPA 6010B	
C-2 Needles (24L1034-07)		Sample Type: O	Other (V	V)	Sampled	l: 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 E	EPA 6010B	
D-1 Needles (24L1034-08)		Sample Type: O	Other (V	V)	Sampled	l: 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 E	EPA 6010B	
D-2 Needles (24L1034-09)		Sample Type: O	Other (V	N)	Sampled	l: 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 E	EPA 6010B	
D-3 Needles (24L1034-10)		Sample Type: C	Other (V	W)	Sampled	l: 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 E	EPA 6010B	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Pro	Project Manager: John Casteel Project: Annual Needles Project Number: Pine Needles									
	Metals by EPA	A 6000/700	0 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 A	nalyzed: 12	/09/24				
Boron	ND	5.0	mg/kg								
LCS (AL43633-BS1)				Prepared:	12/06/24 A	nalyzed: 12	/09/24				
Boron	45.7	5.0	mg/kg	50.0		91.4	80-120				
LCS Dup (AL43633-BSD1)				Prepared:	12/06/24 At	nalyzed: 12	/09/24				
Boron	47.6	5.0	mg/kg	50.0		95.3	80-120	4.16	20		
Duplicate (AL43633-DUP1)	Sou	rce: 24L1034	4-01	Prenared: 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 At	nalyzed: 12	/09/24				
Boron	4.68	5.0	mg/kg	5.00		93.5	0-200				
Matrix Spike (AL43633-MS1)	Sou	rce: 24L1034	4-02	Prepared:	12/06/24 A	nalyzed: 12	/09/24				
Boron	49.5	5.0	mg/kg	48.1	7.07	88.2	75-125				
Matrix Spike Dup (AL43633-MSD1)	Sou	rce: 24L1034	4-02	Prepared:	12/06/24 Ai	nalyzed: 12	/09/24				
Boron	48.3	5.0	mg/kg	43.9	7.07	93.9	75-125	2.45	20		



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.

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Work Order Chain of Custody Record

Alpha / Analytical Labor e-mail: clientservic	ratories Ir :es@alpha-la	nc. abs.com •	Ph	one:	208 I (707	Mason) 4 68	n Stre -040	≫et, U 1 ∙	Jkiah Fax	, Ca (: ('	alifor 707)	mia 99 468-1	5482 5267	Lab No _c	2421034	Page	of	<u>. </u>
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Mayacma Geothermal LLC		Pine N	eedl	es											Analysis Request		Ттат	
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245 E Liberty St Suite 520 Reno, NV 89501													All Sa	mples:			24 hr	-
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John@openmountainenergy.com																	Lab	5
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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



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



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Projec	t Manager: John Caste Project: Annual Soil ct Number: [none]		12/1	Reported: 2/24 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 11:4	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 11:4	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 11:5	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 11:5	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 11:5	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 12:0	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 12:0	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 12:1	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 12:1	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 12:1	18 2303 EPA 6010B	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Proj	Project Manager: John Casteel Project: Annual Soil Project Number: [none]										
	Metals by EPA	A 6000/700	0 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 A	nalyzed: 12	/09/24					
Boron	ND	5.0	mg/kg									
LCS (AL43634-BS1)				Prepared:	12/06/24 Ai	nalyzed: 12	/09/24					
Boron	46.8	5.0	mg/kg	50.0		93.6	80-120					
LCS Dup (AL43634-BSD1)				Prepared:	12/06/24 Ai	nalyzed: 12	/09/24					
Boron	47.3	5.0	mg/kg	50.0		94.6	80-120	1.06	20			
Duplicate (AL43634-DUP1)	Sour	ce: 24L1047	7-01	Prepared:	12/06/24 Ai	nalyzed: 12	/09/24					
Boron	17.9	5.0	mg/kg	•	18.3	,		2.40	20			
MRL Check (AL43634-MRL1)				Prepared:	12/06/24 At	nalyzed: 12	/09/24					
Boron	4.35	5.0	mg/kg	5.00		87.0	0-200					
Matrix Spike (AL43634-MS1)	Sour	ce: 24L1047	7-02	Prepared:	12/06/24 Ai	nalyzed: 12	/09/24					
Boron	54.3	5.0	mg/kg	48.1	17.1	77.3	75-125					
Matrix Spike Dup (AL43634-MSD1)	Sour	ce: 24L1047	7-02	Prepared:	12/06/24 At	nalyzed: 12	/09/24					
Boron	55.1	5.0	mg/kg	48.5	17.1	78.2	75-125	1.50	20			



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.

alpha	
Alpha Analytical Laboratories Inc	,

19.90

e-mail: clientservices@alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468-5267

208 Mason Street, Ukiah, California 95482

Work Order Chain of Custody Record

Page____of___

Company Name:		Project Name: Project Number:					Signature below authorizes work under terms stated on reverse side.										
Mayacma Geothermal LLC		Soils												······································			
		Desta et A									_			Analysis Request		TAT	
Mailing Address: 245 E Liberty St Suite 520 Bene NV 80504		Project A	ddress	:							A 11 C		<u> </u>			-	- 25
240 E Elberty St Guite 520 Neho, NV 65501												Sam	pies:	0100		24 hr	
Project Contact (Hardcopy or PDF to):		P.O.#					Quote	#				arbo	non EPA C provido re	nort on PDE and event		48 br	
John Casteel						ľ					1.160	a36	provide re	pont as FDF and excel.		Õ	
John@openmountainenergy.com			Max													Lab	6
775-260-8351		245 E L	ihert	acm v St	a Ge Suite	90tnei 9 520	mai i Reno	LLÇ 5 NI	/ 80	3501						Approval	
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C-1 Soil	11/4/24	10:14															
C-2 Soil	M	10:12															
D-1 Soil 12/3/24 15:10	1 <u>2/3/x</u> *	15:08	15	Ô													
D-2 Soil	12/21/24	15:04															
D-3 Soil	1	15:35															
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			設計	8 19335			367										







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

Location ID	GPS Coordinates	Location & Description	E Arsenic	ga L/ Calcium	g Magnesium	j⊠ Hardness	mg/l	l∕ Burgen der	uou mg/l	l/gu l	gancse	lg Sodium	l/gu l/	Н	under the sector of the sector	nd Disolved Oxygen	L Turbidity	g Total Alkalinity	ga Nitrate	ga Sulfate	garge Total Suspended Solids	J Total Coliform
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	E Arsenic	bg Lalcium	B Magnesium	B Hardness	mg/l	mg Copper	non mg/l	ly Lead	B Manganese	mg Sodium	Ja Zinc	Hq	Electrical Conductivity	B Disolved Oxygen	LL Turbidity	B Total Alkalinity	J Nitrate	ba logaren al service al s	Total Suspended Solids	ᅜ 정 Z
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	ter Arsenic	ga L Calcium	g Magnesium	ga Hardness	mg/l	ga Copper	non mg/l	l/gu l/	ga Manganese	mg Sodium	lő Il	pH 	u od Sectrical Conductivity S	g Disolved Oxygen	Z Z Turbidity	g Total Alkalinity	lgu Nitrate	ga Sulfate	ह्यू ा Total Suspended Solids	↓ Total Coliform
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 2Bottle Rock Power, LLC2024 Ground Water and Surface Water Monitoring
4th Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	E Arsenic	garta Calcium	ga D Magnesium	ga Hardness	mg/l	a Copper	non mg/l	lgu Lead	a by Manganese	uga Sodium	l/ Zinc	pH	ucod Sectrical Conductivity S	g Disolved Oxygen	H Turbidity	g Total Alkalinity	log Nitrate	for Sulfate	Total Suspended Solids	☑ Total Coliform
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



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



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



Bottle Rock Power	Р	roject Manager: M. I	Noore						
4010 Stone Way North, Suite 400		Project: Gro	undwate	er				R	eported:
Seattle, WA 98103	F	Project Number: Bott	le Rock	Monitorin	ig - GW			03/28/2	24 10:13
	Result Uni	ts Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24C2269-01)		Sample Type:	Water		Sample	d: 03/14/24 08:1	6		
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								
рН	8.03 pH U	nits 1.68	1	AC45089	03/27/24 11:54	03/27/24 12:48	3 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	350 umho	os/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		Sample	d: 03/14/24 08:5	8		
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	



Bottle Rock Power		Project N	Manager: M. N	Noore						
4010 Stone Way North, Suite 400			Project: Gro	undwate	er				R	eported:
Seattle, WA 98103		Project	Number: Bott	e Rock	Monitorin	ig - GW			03/28/2	24 10:13
	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP;	# Method	Note
GW-1 (24C2269-02)			Sample Type:	Water		Sampleo	1: 03/14/24 08:58	3		
Conventional Chemistry Parameters by APHA/EPA N	Aethods									
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@2	5° 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	



Bottle Rock Power	Pr	oject Manage	er: M. Mo	ore							
4010 Stone Way North, Suite 400		Reported:									
Seattle, WA 98103	Р	roject Numbe	er: Bottle	Rock Monite	oring - GW	1			03/28	3/24 10:13	
	Metals by	EPA 200 Se	eries Me	ethods - Qu	uality Co	ntrol					
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		



Bottle Rock Power 4010 Stone Way North, Suite 400	Pro	Reported:								
Seattle, WA 98103	Pr	oject Numbe	r: Bottle	ROCK MONITO	oring - GW	/			03/28	3/24 10:13
	Metals by 1	EPA 200 Se	eries Me	ethods - Qu	uality Co	ntrol				
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)	Sou	rce: 24C226	9 -01	Prepared &	Analyzed:					
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)	Sou	rce: 24C2269	9-02	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			



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Pr	Reported: 03/28/24 10:13								
Convention	al Chemisti	ry Paramete	rs by A	PHA/EPA	Methods	- Qualit	y Contro	 l	00/2	
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 A	nalyzed: 03	/18/24			
Turbidity	ND	1.0	NTU							
Duplicate (AC44304-DUP1)	So	urce: 24C2266	6-01	Prepared: (03/15/24 A	nalyzed: 03	/18/24			
Turbidity	1.13	1.0	NTU		1.23			8.47	20	
MRL Check (AC44304-MRL1)				Prepared: (03/15/24 A					
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)	So	urce: 24C2269	9-01	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 A	nalyzed: 03	/19/24			
Total Suspended Solids	ND	1.0	mg/L							
LCS (AC44465-BS1)				Prepared: (03/18/24 A	nalyzed: 03	/19/24			
Total Suspended Solids	98.0	1.0	mg/L	100		98.0	90-110			
Duplicate (AC44465-DUP1)	So	urce: 24C2350)-01	Prepared: (03/18/24 A	nalyzed: 03	/19/24			
Total Suspended Solids	36.7	1.0	mg/L		35.3			3.72	30	



Bottle Rock Power 4010 Stone Way North, Suite 400	Pro		Reported:													
Seattle, WA 98103	Pi	03/28	3/24 10:13													
Conventio	nal Chemistr	y Paramete	ers by Al	PHA/EPA	Methods	s - Qualit	y Contro	i								
		Reporting	** •	Spike	Source		%REC		RPD	F1						
Analyte(s)	Result	Lımıt	Units	Level	Result	%REC	Limits	RPD	Limit	Flag						
Batch AC44755 - NB General Prep																
LCS (AC44755-BS1)				Prepared: (03/21/24 A	nalyzed: 03	/22/24									
Total Alkalinity as CaCO3	1020	30	mg/L	1000		102	80-120									
Duplicate (AC44755-DUP1)	Sou	irce: 24C226	Prepared: (03/21/24 A	nalyzed: 03	6/22/24										
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)	Sou	rce: 24C308	8-01	Prepared &	د Analyzed:	03/27/24										
pH	7.29	1.68	pH Units		7.26			0.412	20							
Batch AC45090 - NB General Prep																
Duplicate (AC45090-DUP1)	Sou	rce: 24C308	8-01	Prepared &	a Analyzed:	03/27/24										
Specific Conductance (EC)	842	10m	hos/cm@25	°(849			0.828	5							



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Pr		Reported: 03/28/24 10:13							
	Anions	by EPA Me	ethod 3()0.0 - Qual	ity Cont	rol				
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 &	z Analyzed	: 03/14/24				
Nitrate as N	ND	0.40	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
LCS (AC44161-BS1)				Prepared &	a 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)	Sou	urce: 24C209	6-02	Prepared &	z 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 &	z 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)	Sou	urce: 24C209	6-01	Prepared &	z 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)	Sou	urce: 24C209	6-01	Prepared &	z 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



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 Alpha Analytical Laboratories Inc.

www.alpha-labs.com

WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551) 208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

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

Lab No 246 9 Pg____ of ____

Chain of Custody - work Order

Reports and Invoices delivered by email in PDF format

Report to	In	voice to (if dif	feren	t)	Project Information					Signature below authorizes work under terms stated on reverse side.																	
Company: Bottle Rock Power	Contact:				and a second		Proj	ject l	D: Roc	k Mo	onito	orina	-GW	,					Ana	lys	is R	eque	st				TAT	TEMP °C
Attn: Attn: Address: PO Box 326 Cobb, CA 95426 Phone/Fax: 707-529-3799 Email Address:	Email addre Address: Phone/Fax:	*\$5:					Proj PO	ject I Num	No: Iber:						ers per Sample ID												Standard 10 days O RUSH: 5 days O 48 bours	Ukiah Livermore Elk Grove
Field Sampler - Printed Name & Signatur Richard La	e:	nplina	il VOA Vial	stic	aine	r b	P	rese	rvati	ve	king Water	stewater	rix	er	al Number of Containe	, Ph, ec	oidity & TSS	Iness, SO4	u, Fe & Pb	Na & Zn	NO3			Hd H	I TDS ppm		Other:	Petaluma 13.9 Carlsbad
Sample Identification	Date	Time	40n	Pla	Sle	đ	Ч	NH	Oth 12	Nor	Drir	Wa	Soi	Gth	Tot	ALK	Turl	Har	В, О	Mn,	As		i	Fiel	Fiel		Notes / DDW	Source Codes
(3-W-3 GW-1	3/14/24 3/14/2	8:16 48:59	<1 .												33						X X IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII							
		1		0									1													1		
Relinquished by Richnic La	÷×				R	A	ved 7	by						3-	Date	24	13	Time	, 	DD State CA	W W e Sys If "Y Geo	rite C stem N pleas track	Dn E Numb se en er E	ber: hter	Tran the So Rep	ource	Number(s) in th	Yes No e column above Yes No rCode:
																				EDF t Trave	o (Ema I and S	il Addre ite Time	ess): 9:		Mileage	9:	Misc. Supp	ies:

wko_NBtoUK_COC.rpt	WORK ORI	DER		
	24C226	9		Printed: 3/14/2024 3:11:22PM
Alpha An	alytical Laboratories North	Bay to Ukiah Chain of Cu	stody	
Client: Bottle Rock Power Project: Groundwater	Client Code: NB Project Number: Bott	_BOTTLEROCK tle Rock Monitoring - GV	Bid: V PO #:	Master Bid
Date Due:03/28/24 15:00 (10 day TAT)Received By:Luke Andrew SmithLogged In By:Luke Andrew Smith	Date Received: Date Logged	03/14/24 13:21 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: IL Poly - Unpres (C) IL Poly - Unpres (C)				

Relinquished By

-G-/6/-24 Date

Received By

3-14-24 1515 Date Tim

Relinquished By

3-14.24 Date

<u>Jw</u> Received By

_

<u>3.14.24</u> 2230 Date Tim



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



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



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Project M Project N	lanager: Richard Project: Surface Number: Bottle R	d e Water Rock Monitorir	ng - SW		R(03/28/2	eported: 24 10:16
	Result Units	Reporting Limit Dil	ution Batch	Prepared	Analyzed	ELAP# Method	Note
SW-7 (24C2266-01)		Sample Type: Wa	ter	Sample	d: 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/B	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
рН	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	5°ı 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	


Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Project Manager: Richard Project: Surface Water Project Number: Bottle Rock Monitoring - SW								03/2	Reported: 8/24 10:16	
	Result	Units	Reporting Lim	it Di	ilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (24C2266-01)			Sample Type	e: Wa	ater		Sample	d: 03/14/24 08:37	,		
Anions by EPA Method 300.0											
Sulfate as SO4	5.6 r	ng/L	0.5	50	1	AC44161	03/14/24 10:30	03/14/24 17:42	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Metho	ds										
Total Coliforms	150 N	MPN/100mL	1.	.0	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	11 N	MPN/100mL	1.	.0	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
SW-9 (24C2266-02)			Sample Type	e: Wa	ater		Sample	d: 03/14/24 09:25	5		
Metals by EPA 200 Series Methods											
Arsenic	ND r	ng/L	0.02	.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Boron	ND r	ng/L	0.1	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Calcium	6.7 ı	ng/L	5.	.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Chromium	ND r	ng/L	0.01	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Copper	ND r	ng/L	0.05	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Iron	ND r	ng/L	0.1	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Lead	ND r	ng/L	0.02	.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Magnesium	3.9 i	ng/L	0.6	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Manganese	ND r	ng/L	0.02	.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Mercury	ND ı	ıg/L	0.2	20	1	AC44700	03/21/24 05:52	03/21/24 13:41	1551	EPA 245.1	
Sodium	ND r	ng/L	6	.0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Vanadium	ND r	ng/L	0.02	20	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	
Zinc	ND r	ng/L	0.3	0	1	AC44274	03/15/24 07:12	03/18/24 07:45	2303	EPA 200.7	



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Pr	Project Manager: Richard Project: Surface Water Project Number: Bottle Rock Monitoring - SW								
	Result Unit	ts Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note	
SW-9 (24C2266-02)		Sample Type:	Water		Sample	ed: 03/14/24 09:25	5			
Conventional Chemistry Parameters by APHA/EF	PA Methods									
Dissolved Oxygen	11 mg/L	0.10	1	AC44334	03/15/24 16:00	03/15/24 17:00	1551 \$	3M4500-O G	T-14	
рН	7.91 pH Uı	nits 1.68	1	AC45089	03/27/24 11:54	03/27/24 12:48	2303 8	SM4500-H+ B	T-14	
Specific Conductance (EC)	98 umhos	s/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 5	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 I	EPA 300.0		
Microbiological Parameters by APHA Standard N	lethods									
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		Sample	ed: 03/14/24 09:11				
Metals by EPA 200 Series Methods		Sample Type	, acci		Sampi					
Arsenic	ND mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Boron	ND mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Calcium	5.0 mg/L	5.0	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Chromium	ND mg/L	0.010	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Copper	ND mg/L	0.050	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Iron	0.13 mg/L	0.10	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Lead	ND mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Magnesium	4.4 mg/L	0.60	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Manganese	ND mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Mercury	ND ug/L	0.20	1	AC44700	03/21/24 05:52	03/21/24 13:44	1551 I	EPA 245.1		
Sodium	ND mg/L	6.0	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Vanadium	ND mg/L	0.020	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		
Zinc	ND mg/L	0.30	1	AC44274	03/15/24 07:12	03/18/24 07:48	2303 I	EPA 200.7		



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Project Manager: Richard Project: Surface Water Project Number: Bottle Rock Monitoring - SW								Reported: 03/28/24 10:16		
	Resu	lt Units Reportin	g 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 M	ethods	•									
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	
рН	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 Metho	ds										
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		~F	- , P			F					
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		



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Project Manager: Richard Project: Surface Water Project Number: Bottle Rock Monitoring - SW									Reported: 03/28/24 10:16	
	Resu	lt Units Report	ing Limit	Dilution	Batch	Prepared	Analyzed	ELAP;	# Method	Note	
SW-6 (24C2266-04)		Samp	le Type:	Water		Sample	d: 03/14/24 10:31				
Conventional Chemistry Parameters by APHA/EPA M	ethods	•				-					
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	
рН	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 Metho	ds										
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)		Samp	le Type:	Water		Sample	d: 03/14/24 09:48	\$			
Metals by EPA 200 Series Methods		~F				~~~ P					
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		



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103		R 03/28/2	eported: 24 10:16							
	Result	Units F	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-8 (24C2266-05)		S	ample Type:	Water		Sampleo	d: 03/14/24 09:4	8		
Conventional Chemistry Parameters by APHA/E	PA Methods									
Dissolved Oxygen	11 1	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 I	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)	1 3 0 u	umhos/cm@259	^o 10	1	AC45090	03/27/24 11:53	03/27/24 17:14	2303	SM2510B	
Total Alkalinity as CaCO3	58 1	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Total Suspended Solids	1.6 r	mg/L	1.0	1	AC44465	03/18/24 14:30	03/19/24 09:00	1551	SM2540D	
Turbidity	3.0 I	NTU	1.0	1	AC44304	03/15/24 10:09	03/18/24 09:53	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	58 1	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND r	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND r	mg/L	30	1	AC44755	03/21/24 13:56	03/22/24 16:53	2303	SM2320B	
Hardness, Total	54 1	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 1	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 1	Aethods									
Total Coliforms	390 M	MPN/100mL	1.0	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	
E. Coli	73 M	MPN/100mL	1.0	1	AC44250	03/14/24 16:30	03/15/24 16:40	2303	SM9223B	



Bottle Rock Power	Project Manager: Richard									-
4010 Stone Way North, Suite 400	Project. Sufface water Project Number: Bottle Bock Monitoring - SW									Reported:
Sealle, WA 90105	FI		I. DOLLIE		uning - Svv				03/20	3/24 10.10
	Metals by]	EPA 200 Se	eries Me	thods - Qu	uality Co	ntrol				
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC44274 - NB EPA 200 series										
Blank (AC44274-BLK1)				Prepared: (03/15/24 At	nalyzed: 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: ()3/15/24 Ai	nalyzed: 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: ()3/15/24 Ai	nalyzed: 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	
			- 1							



Bottle Rock Power	Project Manager: Richard									
4010 Stone Way North, Suite 400				Reported:						
Seattle, WA 98103	Pi	roject Numbe	er: Bottle	Rock Monite	oring - SW				03/28	8/24 10:16
	Metals by	EPA 200 Se	eries Mo	ethods - Qu	uality Co	ntrol				
		Penarting		Snike	Source		%PEC		רופק	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC44274 - NB EPA 200 series										
LCS Dup (AC44274-BSD1)				Prepared: (03/15/24 Ai	nalyzed: 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)	Sou	rce: 24C226	6-01	Prepared: (03/15/24 At	nalyzed: 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 Ai	nalyzed: 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			



Bottle Rock Power	Pro	oject Manage	r: Richa	ird									
4010 Stone Way North, Suite 400	Project: Surface Water												
Seattle, WA 98103	Pr	oject Numbe	er: Bottle	Rock Monit	oring - SV	/			03/28	8/24 10:16			
	Metals by	Metals by EPA 200 Series Methods - Quality Control											
		Reporting		Spike	Source		%REC		RPD				
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag			
Batch AC44274 - NB EPA 200 series													
Matrix Spike (AC44274-MS1)	Sou	rce: 24C226	6-02	Prepared: (03/15/24 A	nalyzed: 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)	Sou	rce: 24C2793	3-01	Prepared &	analyzed:	: 03/21/24							
Mercury	ND	0.20	ug/L		ND				20				
Matrix Spike (AC44700-MS1)	Sou	rce: 24C279	3-01	Prepared &	& Analyzed:	03/21/24							
Mercury	2.70	0.20	ug/L	2.50	ND	108	70-130						



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Project Manager: Richard Project: Surface Water Re Project: Number: Bottle Rock Monitoring - SW 03/28/24										
	Metals by E	200 S	eries Mo	ethods - Qu	uality Co	ntrol					
		Reporting		Spike	Source		%REC		RPD		
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag	
Batch AC44700 - Hg Digest											
Matrix Spike (AC44700-MS2)	Source	ce: 24C280	6-01	Prepared &	Analyzed:	03/21/24					
Mercury	2.90	0.20	ug/L	2.50	ND	116	70-130				
Matrix Spike Dup (AC44700-MSD1)	Sourc	ce: 24C279	3-01	Prepared & Analyzed: 03/21/24							
Mercury	2.89	0.20	ug/L	2.50	ND	115	70-130	6.55	20		



Bottle Rock Power	Project Manager: Richard									
4010 Stone Way North, Suite 400				Reported:						
Seattle, WA 98103	Р	roject Numbe	er: Bottle	Rock Monite	oring - SW	1			03/2	8/24 10:16
Convention	al Chemistr	y Paramete	ers by A	PHA/EPA	Methods	s - Qualit	y Contro	1		
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC44274 - NB EPA 200 series										
Blank (AC44274-BLK1)				Prepared: (03/15/24 At	nalyzed: 03	/18/24			
Hardness, Total	ND	15	mg/L							
Duplicate (AC44274-DUP1)	Sou	urce: 24C226	6-01	Prepared: (03/15/24 At	nalyzed: 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 At	nalyzed: 03	/18/24			
Turbidity	ND	1.0	NTU							
Duplicate (AC44304-DUP1)	Sou	urce: 24C226	6-01	Prepared: (03/15/24 At	nalyzed: 03	/18/24			
Turbidity	1.13	1.0	NTU		1.23			8.47	20	
MRL Check (AC44304-MRL1)				Prepared: (03/15/24 Ai	nalyzed: 03	/18/24			
Turbidity	1.23	1.0	NTU	1.00		123	0-200			
Batch AC44334 - General Preparation										
Duplicate (AC44334-DUP1)	Sou	urce: 24C226	6-02	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 A	nalyzed: 03	/19/24			
Total Suspended Solids	ND	1.0	mg/L							



Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Analyte(s) Result Limit Spike Source % REC RPD Limit Batch AC44465 - General Preparation Level Result Units Level % REC Limits RPD Limit Duplicate (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 E	le Rock Power 0 Stone Way North, Suite 400 ttle, WA 98103	Reported: 03/28/24 10:16		
Reporting Analyte(s) Reporting Result Spike Limit Source %REC RPD Limit RPD 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 CaC03 1020 30 mg/L 100 102 80-120 Duplicate (AC44755-DUP1) Source: 24C2266-01 Prepared: 03/21/24 Analyzed: 03/22/24 Total Alkalinity as CaC03 70.6 30 mg/L 69.3 1.86 20 Carbonate Alkalinity as CaC03 70.6 30 mg/L ND 20 Bicarbonate Alkalinity as CaC03 ND 30 mg/L ND 20 Hydroxide Alkalinity as CaC03 ND 30 mg/L <th>Convention</th> <th></th>	Convention			
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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 Analyzed: 03/19/24 Total Suspended Solids 36.7 1.0 mg/L 35.3 3.72 30 Batch AC44755 - NB General Prep Prepared: 03/21/24 Analyzed: 03/22/24 Source: 24C2266-01 Prepared: 03/21/24 Analyzed: 03/22/24 Source: 24C308 Source:	n AC44465 - General Preparation			
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Batch AC44755 - NB General Prep Prepared: 03/21/24 Analyzed: 03/22/24 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 Garbonate Alkalinity as CaCO3 70.6 30 mg/L 69.3 1.86 20 Garbonate Alkalinity as CaCO3 ND 30 mg/L ND 20 20 Batch AC45089 - NB General Prep 20 ND 30 mg/L ND 20 Duplicate (AC45089-OUP1) Source: 24C3088-01 Prepared & Analyzed: 03/27/24 20 Batch AC45090- NB General Prep Prepared & Analyzed: 03/27/24 20 Duplicate (AC45089-DUP1) Source: 24C3088-01 Prepared & Analyzed: 03/27/24 0.412 20 Batch AC45090- NB General	Suspended Solids	30		
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Duplicate (AC45090-DUP1) Source: 24C3088-01 Prepared & Analyzed: 03/27/24	n AC45090 - NB General Prep			
	licate (AC45090-DUP1)			
Specific Conductance (EC) 842 10mhos/cm@25°C 849 0.828 5	fic Conductance (EC)	5		



Bottle Rock Power 4010 Stone Way North, Suite 400 Seattle, WA 98103	Pro	Reported: 03/28/24 10:16								
	Anions	by EPA Met	hod 30	00.0 - Qual	ity Conti	rol				
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 &						
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)	Sou	rce: 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)	Sou	rce: 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)	Sou	rce: 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



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.

alpha Alpha Analytical Laboratories Inc.

www.alpha-labs.com

WATERS, SEDIMENTS, SOLIDS

208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2723) 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

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Lab No 2462266 Pg

Report to	In	voice to (if dif	feren	t)			Pro	ject l	nfor	matio	on					Sig	natu	re be	elow a	auth	orizes	work u	inder te	erms stat	ed on rev	erse sid	de.
Company: Bottle Rock Power	Contact:					F	Proje Bot	ct ID tle R): Rock	Mon	itorir	na-S	w					Ana	alys	is R	Redi	uest			T	AT	TI	EMP °C
Attn: Address: PO Box 326 Cobb, CA 95426	Email addre Address:	ess:					Proje	ct No	o: er:					ample ID				1. Stored 48							Star 10 (ndard days	L	Ukiah vermore
Phone/Fax: 707-529-3799 Email Address:	Phone/Fax:					1								ers per Sa											50	lays	E	lk Grove
Field Sampler - Printed Name & Signature Richard hacy	9:		DA Vial	Conta	ainer		Pre	serv	vative	9	j Water	atrix	<u> </u>	umber of Containe	l, ec	y & TSS	ss, SO4	e & Pb	& Zn	rygen		/, Hg			401 (Ot	her:	P / (etaluma 3 , 9 Carlsbad
Sample Identification	Sam Date	pling Time	40ml V(Plastic Glass	Sleeve	Other	HN03	H2S04	Other	None	Wastew	Soil	Other	Total N	ALK, Ph	Turbidit	Hardnes	B, Cu, F	Mn, Na (Diss. 0)	Bac-T	As, Cr, \			requ	uired es / DDW	Sourc	e Codes
SVV-7 SW-9	Plital	8:37 9:25		XX XX									2	66	XX	XX	XX	XX	XX	イン	XX	XX						
SW-10 -	2/14/24 V 4/24	9:11		XX		+				+			-	ちろ	X	XX	XX	XX	XX	XX	X	XX						
5W-8 3	14/24	9:46		XX	(1					+			6	X	X	X	Х	X	X	X	X						
										1	-	t							14 J.J.									
				+						1	+																	
Relinquished by					Re	eceiv	ed by	/						Date			Time	3.3 • •	DD	w w	/rite	On E		ransm	ission	, 0	Yes	O No
Richard Lary	/				£	A							9	2-14	1-24	/	32	.]	Stat	e Sy : If "Y	sten " ple	n Numt ase en	ber: ter the		e Numb	er(s) in th	e colun	nn above
																			CA Globa EDF t Trave	Geo II ID: o (Email I and S	ail Ad	cker E dress): me:	DF R	eport	? Sampling C	Company Log Misc. Suppl	Yes Code:	O №
	Sector Sector			1.1.1			1. 104	1	1		1	1.00							1999			100	1	1				

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www.alpha-labs.com

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208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

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Lab No 2462266 Pg

Report to	In	voice to (if dif	feren	t)			Pro	ject l	nfor	matio	on					Sig	natu	re be	elow a	auth	orizes	work u	inder te	erms stat	ed on rev	erse sid	de.
Company: Bottle Rock Power	Contact:					F	Proje Bot	ct ID tle R): Rock	Mon	itorir	na-S	w					Ana	alys	is R	Redi	uest			T	AT	TI	EMP °C
Attn: Address: PO Box 326 Cobb, CA 95426	Email addre Address:	855:					Proje	ct No	o: er:					ample ID				1. Stored 48							Star 10 (ndard days	L	Ukiah vermore
Phone/Fax: 707-529-3799 Email Address:	Phone/Fax:					1								ers per Sa											50	lays	E	lk Grove
Field Sampler - Printed Name & Signature Richard hacy	9:		DA Vial	Conta	ainer		Pre	serv	vative	9	j Water	atrix	<u> </u>	umber of Containe	l, ec	y & TSS	ss, SO4	e & Pb	& Zn	rygen		/, Hg			401 (Ot (her:	P / (etaluma 3 , 9 Carlsbad
Sample Identification	Sam Date	pling Time	40ml V(Plastic Glass	Sleeve	Other	HN03	H2S04	Other	None	Wastew	Soil	Other	Total N	ALK, Ph	Turbidit	Hardnes	B, Cu, F	Mn, Na (Diss. 0)	Bac-T	As, Cr, \			requ	uired es / DDW	Sourc	e Codes
SVV-7 SW-9	Pliylar Phylad	8:37 9:25		XX XX									2	66	XX	XX	XX	XX	XX	イン	XX	XX						and the second se
SW-10 -	2/14/24 V 4/24	9:11		XX		+				+			-	ちろ	X	XX	XX	XX	XX	XX	X	XX						
5W-8 3	14/24	9:46		XX	(1					+			6	X	X	X	Х	X	X	X	X						
										1	-	t							14 J.J.									
				+						1	+																	
Relinquished by					Re	eceiv	ed by	/						Date			Time	3.3 • •	DD	w w	/rite	On E		ransm	ission	, 0	Yes	O No
Richard Lary	/				£	A							9	2-14	1-24	/	32	.]	Stat	e Sy : If "Y	sten " ple	n Numt ase en	ber: ter the		e Numb	er(s) in th	e colun	nn above
																			CA Globa EDF t Trave	Geo II ID: o (Email I and S	ail Ad	cker E dress): me:	DF R	eport	? Sampling C	Company Log Misc. Suppl	Yes Code:	O №
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WORK ORDER



24C2266

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock	k Power	Client Code:	NB_BOTTLEROCK	Bid:	Master Bid
Project: Surface Wa	ater	Project Number:	Bottle Rock Monitoring - SW	PO #:	
Date Due: Received By: Logged In By:	03/28/24 15:00 (10 day TAT) Luke Andrew Smith Luke Andrew Smith	Date Rec Date Log	eived: 03/14/24 13:21 ged 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] Sample	d 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	

· Zy-1(1-29 Date

Relinquished By

1 , Received By

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<u>)-14-74</u> 1515 Date Tim

Relinquished By

3-14.24 Date

3-14.24 2230 Date Tim

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WORK ORDER

24C2266

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bo Project: Su	ttle Rock Power rface Water	Client Code: Project Number:	NB_BOTTLEROCK Bottle Rock Monitoring - SW	Bid: PO #:	Master Bid
Containers S IL Poly - Unp	Supplied: ores (F) ores (F)				
1L Poly - Unp 1L Poly - Unp	ores (F)				
1L Poly - Unp 250mL Poly I	pres (F) HNO3 (E)				
250mL Poly I 250mL Poly I	HNO3 (E) HNO3 (E)				
 250mL Poly I 250mL Poly I	HNO3 (E) HNO3 (E)				
VOA Vial - U VOA Vial - U	Jnpres (D) Jnpres (D)				
VOA Vial - U VOA Vial - U VOA Vial - U	Japres (D) Japres (D) Japres (D)				
1					and the second



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,

(1) kl

Stephen F. McWeeney Project Manager



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



Mayacma Geothermal LLC	Project	Manager: Ma	yacma (Geotherm	al LLC				
245 E Liberty St Suite 520		Project: Gro	ound Wa	iter					Reported:
Reno, NV 89501	Projec	t Number: [nor	ne]					06/18	8/24 09:02
R	esult Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP≉	# Method	Note
GW-1 (24E4445-01)		Sample Type:	Water		Sample	d: 05/30/24 10:20	0		
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	.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 Meth	ods								
рН	.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)	00 umhos/cm@	25° 10	1	AE45060	05/31/24 13:44	05/31/24 14:07	2303	SM2510B	
Total Alkalinity as CaCO3	80 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	80 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	82 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		Sample	d: 05/30/24 10:4	5		
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	.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	.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.	46 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	



Mayacma Geothermal LLC		Project N	lanager: Ma	/acma G	Seotherm	al LLC				
245 E Liberty St Suite 520			Project: Gro	und Wa	ter				R	eported:
Reno, NV 89501		Project	Number: [nor	ie]					06/18/2	24 09:02
	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
GW-3 (24E4445-02)			Sample Type:	Water		Sampled	l: 05/30/24 10:4	5		
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	5°ı 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	



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

Lab No.

Page

of

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

		Project Na	me:				Pro	oject I	Num	ber:				Sign	ature	below	autho	orize	s wo	rk u	nder	term	ns sta	ated	on rev	verse	side.	
Mayacma Geothermal LLC		Ground	Wat	ter													Ana	alys	is F	Req	ues	t					ТАТ	
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501		Project Ac	dres	S:									All samp Metals b	oles by E	PA 2	:00											24 hr	
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com Phone/Fax: 775-260-8351		P.O. # Bill to: 245 E L	Ma	yacı ty S	ma C St Sui	Seot	Autoria hermo	nal Ll eno,		89	501	-	As, B, C Convent Methods pH, Spe	tiona s: cific	Cu, F al Ch c con	e, Pb nemis nducta	, Mg try P ance	, Mr ara (EC	n, N met C), T	a, a ers ota	by A	APł k as	HA/E s Ca		3, TS	SS,	48 hr Lab Approval Required	b Use Only
Samplers Signature:	Sam	account pling	Co	<u>onta</u>	oenm ainer	oun	Pres	enero erva	tive	om e l	Matr	x	Turbidity Alkalinit	y, Bi y as	icarb s CaC	onate CO3,	e Alk Hydi	alini	ity a de A	is C Nka	aCo	03, y as	Car s Ca	bon	ate 3,			ForLa
Sample Designation	Date	Time	40ml VOA	Poly	Amber Sleeve		HCL HNO3	H2SO4		None	Water Soil		Anions	by E	EPA I	Metho Ifate a	od 30 as S)0.0 04									(standard	0
GW-1 GW-3	5/30/24 5/30/2*	10:20											Referen	nce	Work	< Ord	er: 2	4C2	2269) fo	r list	t					2.	2°2
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Sample Condition on Receipt:	Travel a	and Site Tir	ne:	Mile	eage:		Misc	. Sup	plies	1							Drin	king	y Wa	ter	state	Sys	stem	/Sou	irce N	lumb	er:	

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WORK ORDER

24E4445

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Project: Ground V	a Geothermal LLC Water	Client Code: NBS Project Number: [non	SM_MGLLC e]	Bid: PO #:	
Date Due: Received By:	06/13/24 15:00 (10 day TAT) Stephen F. McWeeney Cade I Burkhammer	Date Received:	05/30/24 13:20		
Samples Received at:	deg C				
Analysis	Department	Expires	Comments		
24E4445-01 GW-3 Solids, TSS-SM2540I	[Water] Sampled 05/30/24 10:20	06/06/24 23:59			
24E4445-02 GW-1 Solids, TSS-SM25401	[Water] Sampled 05/30/24 10:45	06/06/24 23:59			
Containers Supplie 1L Poly - Unpres (C) 1L Poly - Unpres (C)					

30.2

Date

5-30-24 1515 Tim

Received By

Date

Relinquished By

Relinquished By

<u>5-30-24</u> Date

Received By

5-30.24 Date Tim

Page 1 of 1



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,

(1) EV

Stephen F. McWeeney Project Manager



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

Laboratory ID	Matrix	Date Sampled	Date Received
24E4450-01	Water	05/30/24 08:50	05/30/24 13:20
24E4450-02	Water	05/30/24 10:30	05/30/24 13:20
24E4450-03	Water	05/30/24 09:30	05/30/24 13:20
24E4450-04	Water	05/30/24 10:10	05/30/24 13:20
24E4450-05	Water	05/30/24 09:50	05/30/24 13:20
	Laboratory ID 24E4450-01 24E4450-02 24E4450-03 24E4450-04 24E4450-05	Laboratory ID Matrix 24E4450-01 Water 24E4450-02 Water 24E4450-03 Water 24E4450-04 Water 24E4450-05 Water	Laboratory IDMatrixDate Sampled24E4450-01Water05/30/24 08:5024E4450-02Water05/30/24 10:3024E4450-03Water05/30/24 09:3024E4450-04Water05/30/24 10:1024E4450-05Water05/30/24 09:50



Mayacma Geothermal LLC	Project N	lanager: Mayacr	na Geotherm	al LLC			
245 E Liberty St Suite 520		Project: Surface	Water				Reported:
Reno, NV 89501	Project N	Number: [none]				06/1	14/24 16:18
	Result Units	Reporting Limit Dilu	ition Batch	Prepared	Analyzed	ELAP# Method	Note
SW-6 (24E4450-01)	S	Sample Type: Wat	er	Sampleo	1: 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
рН	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	^{5°(} 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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Proje Proj	ct Manager: Ma Project: Sur ect Number: [nor	yacma G face Wa ne]	Geotherma ter	al LLC			Report 06/14/24 16	ed: :18
	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# N	1ethod N	ote
SW-6 (24E4450-01)		Sample Type:	Water		Sampleo	1: 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 3	300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	>2419.6 MPN/100r	nL 1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303 SM92	223B	
E. Coli	93 MPN/100	mL 1.0	1	AE45010	05/30/24 15:58	05/31/24 16:34	2303 SM92	223B	
SW-7 (24E4450-02)		Sample Type:	Water		Sampleo	1: 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	



Mayacma Geothermal LLC		Project N	/lanager: Ma	yacma (Geotherm	al LLC			_	
245 E Liberty St Suite 520			Project: Sur	face Wa	iter				Re	eported:
Reno, NV 89501		Project	Number: [nor	ne]					06/14/2	4 16:18
	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
SW-7 (24E4450-02)			Sample Type:	Water		Sampleo	d: 05/30/24 10:30)		
Conventional Chemistry Parameters by APHA/EP	A 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
рН	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@2	5°(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 M	ethods									
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		Sampleo	d: 05/30/24 09:30)		
Metals by EPA 200 Series Methods			1 11			ľ				
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Repo. NV 89501		Project M Project N	anager: Ma Project: Sur Jumber: Inor	yacma (face Wa nel	Geotherm Iter	al LLC			R€ 06/14/2	eported:
	Resul	t Units R	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
SW-8 (24E4450-03)		s	ample Type:	Water		Sample	d: 05/30/24 09:30)		
Conventional Chemistry Parameters by APHA/	EPA Methods		1 11			1				
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
рН	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@259	°(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)		s	ample Type:	Water		Sample	d: 05/30/24 10:10)		
Metals by EPA 200 Series Methods						~ p				
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501		Project M Project N	anager: Ma Project: Sur Jumber: [nor	yacma G face Wa ne]	Geotherm Iter	al LLC			Re 06/14/2	eported: 24 16:18
	Resul	t Units F	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP;	# Method	Note
SW-9 (24E4450-04)		S	ample Type:	Water		Sample	d: 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
рН	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	°I 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 Standar	d 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)		s	ample Type:	Water		Sample	d: 05/30/24 09:50)		
Metals by EPA 200 Series Methods						~ F				
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	



Mayacma Geothermal LLC		Project M	anager: May	/acma G	Geotherm	al LLC				
245 E Liberty St Suite 520			Project: Sur	face Wa	ter				R	eported:
Reno, NV 89501		Project N	Number: [non	e]					06/14/2	24 16:18
	Result	t Units F	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-10 (24E4450-05)		S	Sample Type:	Water		Sampled	: 05/30/24 09:5)		
Conventional Chemistry Parameters by APHA/El	PA 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
рН	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°	PC 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 M	lethods									
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	



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 ain of Custody Reco

 Alpha
 Analytical Laboratories Inc.
 208 Mason Street, Ukiah, California 95482

 e-mail:
 clientservices@alpha-labs.com
 Phone:
 (707) 468-0401
 Fax:
 (707) 468-5267

Company Name:		Project N	ame:				F	Proje	ect N	umb	er:				Sigr	ature	belov	v auth	orizes w	ork	unde	r ter	ms st	ated	on re	verse	side.	
Mayacma Geothermal LLC		Surface	Wa	iter														An	alysis	Re	que	st					TAT	
Mailing Address: 245 E Liberty St Suite 520 Reno, NV 89501		Project A	ddres	S:										All Sam	nple	S:											24 hr	
		<u> </u>				ty major Major						and to did a to only	de-tantringen	Metals	by I	EPA	200) Ser	ies Me	eth	ods						0	
Project Contact (Hardcopy or PDF to):		P.O. #					C	Quot	e#					As, B, I	Ca,	Cr,	Cu,	Fe, F	Pb, Mg	g, I	Mn,	Hg	, Na	, V,	Zn		48 hr	×
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Designation	Date	Time	ę Į	Pol	Sle		2	Ž	Ĩ	No	Na	Soi		as Cac	,03	, H a	arane	ess									\circ	1.1.1
SW-6	5/30/21	108:50									Γ			Anions	by	FP/	A Me	thod	300 0)							2.2	02
SW-7	1	10:30												Sulfate	25	SO	4	and a	000.0									1
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Relinquished by:	6	Received	for L	abo	ratory	by:			x				+	Date	EDF to (Email Address):													
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Sample Condition on Receipt:	Travel an	nd Site Tim	e:	Milea	age:		Misc	:. Su	ipplie	es:																		

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WORK ORDER

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

24E4450

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Ge Project: Surface Wate	eothermal LLC er	Client Code: Project Number:	NBSM_MGLLC [none]	Bid: PO #:	
Date Due: () Received By: S Logged In By: ()	06/13/24 15:00 (10 day TAT) Stephen F. McWeeney Cade J Burkhammer	Date Rece Date Logg	vived: 05/30/24 13:20 eed 05/30/24 13:53		
Samples Received at:	deg C				
Analysis	Department	Expires	Comments		
24E4450-01 SW-6 [Wat	ter] 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 [Wat	er] Sampled 05/30/24 10:30				
Diss Oxygen SM4500	Wet Chem	05/30/24 10:4	44		
Hg CVAA Total 245.1	Metals	06/27/24 23:	59		
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:5	59		
24E4450-03 SW-8 [Wate	er] Sampled 05/30/24 09:30	- <u></u>			
Diss Oxygen SM4500	Wet Chem	05/30/24 09:4	14		
Hg CVAA Total 245.1	Metals	06/27/24 23:5	59		
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:5	59		
24E4450-04 SW-9 [Wate	er] Sampled 05/30/24 10:10				
Diss Oxygen SM4500	Wet Chem	05/30/24 10:2	24		
Hg CVAA Total 245.1	Metals	06/27/24 23:5	9		
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:5	9		
24E4450-05 SW-10 [Wat	ter] Sampled 05/30/24 09:50			· · · · · · · · · · · · · · · · · · ·	
Diss Oxygen SM4500	Wet Chem	05/30/24 10:0	4		
Hg CVAA Total 245.1	Metals	06/27/24 23:5	9		
Solids, TSS-SM2540D	Wet Chem	06/06/24 23:5	9		

Relinquished By

Date

Received By

5-30.24 1515 Tim

Date

Relinquished By

5.30-24 Date

Received By

5-30-24 Date 1 Tim

Page 1 of 2

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WORK ORDER

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

24E4450 Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC Project: Surface Water	Client Code: Project Number:	NBSM_MGLLC [none]	Bid: PO #:	
Containers Supplied:				
1L Poly - Unpres (F)				
1L Poly - Unpres (F)				
IL Poly - Unpres (F)				
IL 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)				



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,

(1) EV

Stephen F. McWeeney Project Manager



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



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Project Manager: John Project: Ground Water Project Number: [none]									Reported: 1/24 12:14
	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
GW-1 (24J1843-01)			Sample Type:	Water		Sampleo	d: 10/09/24 10:1	8		
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 M	lethods									
рН	7.83	pH Units	1.68	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM4500-H+ B	3 T-14
Specific Conductance (EC)	380	umhos/cm@25	5°ı 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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Project	Manager: Joh Project: Gro t Number: Inor	n ound Wa	ter				F 10/21/	Reported: /24 12·14
Rend, 11 00001	sult Unite Deporting Limit Dilution Batch Dranared Aveluated							t Method	Note
	suit Ollits		Dilution	Batch	Frepared		ELAP#	+ Method	Note
GW-1 (24J1843-01)		Sample Type:	Water		Sampleo	1: 10/09/24 10:13	8		
Anions by EPA Method 300.0	D ma/I	0.40	1	A 142771	10/00/24 16:26	10/00/24 10:25	\$ 2202	EDA 200.0	
Sulfate as SO4	D mg/L	0.40	1	AJ45771	10/09/24 10:30	10/09/24 19:25	2303	EFA 300.0	
	to mg/L	0.50	1	AJ43//1	10/09/24 10:30	10/09/24 19:25	2303	EPA 300.0	
GW-3 (24J1843-02)		Sample Type:	Water		Sampleo	1: 10/09/24 10:4	J		
Metals by EPA 200 Series Methods									
Boron 0.	13 mg/L	0.10	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Calcium	51 mg/L	5.0	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	EPA 200.7	
Copper N	D 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	D mg/L	0.020	I	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 0.0	50 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 N	D 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 N	D 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 Metho	ds								
рН 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) 33	50 umhos/cm@2	25° 10	1	AJ43953	10/11/24 10:48	10/11/24 17:29	2303	SM2510B	
Total Alkalinity as CaCO3 15	80 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	5 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	80 mg/L	30	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Carbonate Alkalinity as CaCO3 N	D mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hydroxide Alkalinity as CaCO3 N	- D mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303	SM2320B	
Hardness, Total	8 mg/L	15	1	AJ43839	10/10/24 07:52	10/10/24 11:11	2303	SM2340B	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Projec	t Manager: John Project: Ground ct Number: [none]	Water				10/21	Reported: /24 12:14
	Result Units	Reporting Limit Dilu	tion Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (24J1843-02)		Sample Type: Wat	er	Sampleo	d: 10/09/24 10:4	0		
Anions by EPA Method 300.0								
Nitrate as N	ND mg/L	0.40	AJ43771	10/09/24 16:36	10/09/24 19:33	8 2303 E	PA 300.0	
Sulfate as SO4	5.5 mg/L	0.50	AJ43771	10/09/24 16:36	10/09/24 19:33	8 2303 E	PA 300.0	



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 Lab No. 245/843 Page _____ of

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

Page_

Company Name:		Project Na	ame	:		Project Number:								Signature below authorizes work under terms stated on reverse side.																
Mayacma Geothermal LLC		Ground	Wa	ate	r									Analysis Request								TAT								
Mailing Address:		Project Ac	dre	SS:	49									1												_				15
245 E Liberty St Suite 520 Reno, NV 89501														All samp Metals b	ples		200												24 hr	1.3
Project Contact (Hardcopy or PDF to):		P.O. #					0	Quot	te #					As, B, C	Ca, C	Cu,	Fe, F	Pb,	Mg,	Mn,	Na	a, Z	'n						48 hr	ly.
John@openmountainenergy.com			MAG			0				~				Conven	tiona	al C	hem	ist	y Pa	aram	ete	ers	by A	P	HA/E	EPA			Lab	ō
Phone/Fax: 775-260-8351		Bill to: 245 E Li	iber	rty :	St Su	Geo uite	520 l	ma Rer	no, N		895	01		Methods pH, Spe	s: ecific	c co	onduc	tar	nce (EC),	, To	otal	Alk	as	s Ca	CO	3, T	SS,	Approval Required	b Use
	Camera	account	ing	<u>(a)</u> 0	peni	nou	Intair	ien	ergy	/.CO	m Tha	otri	v	Turbidit	y, Bi	icar	bona	ate	Alka	linity	as	C	aCC)3,	Car	bor	ate		1 wk	La
Samplers Signature:	Samp	Jing	OA O			T			Ival	T			Ê	Hardnes	ss ss	s Ca	acos	5, ⊢	lyaro	oxide	e Al	kal	inity	as	s Ca	CO	3,		2 wk	For
Sample Designation	Date	Time	40ml V	Poly	Amber	0,000	ЧĊГ	HNO3	H2SO4	None	Water	Soil		Anions I	by E	EPA	Met	hoo	300	0.0									(standard)	
GW-1	10/9/24	10:18						Τ		Τ	Т			Nillale a		v , O	unate	5 a.	5 50	4										
GW-3	10/9/24	10:40												Referen	ice \	Wo	r <mark>k O</mark> r	de	: 24	E444	45 1	for	con	npl	etel	ist.				
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Sample Condition on Receipt:	Travel an	d Site Time	e:	Mile	eage:		Misc	. Si	upplie	es:		1					5.0		rinki	ng W	ate	r St	ate S	5ys	tem/s	Sour	<u>ce N</u>	umb	<u>er:</u>	6.2
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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,

11 kl

Stephen F. McWeeney Project Manager



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



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Project M Project I	/anager: John Project: Surfa Number: [none]	ice Wa]	ter				R 10/25/	eported: 24 11:11
	Result Units	Reporting Limit D	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
SW-6 (24J1848-01)	5	Sample Type: W	ater		Sampleo	1: 10/09/24 08:5	0		
Metals by EPA 200 Series Methods									
Boron	ND mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Calcium	11 mg/L	5.0	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Magnesium	21 mg/L	0.60	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AJ44765	10/23/24 05:56	10/24/24 13:47	7 1551	EPA 245.1	
Sodium	6.3 mg/L	6.0	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 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	5 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
рН	8.17 pH Units	1.68	1	AJ43948	10/11/24 10:10	10/11/24 14:10	5 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	250 umhos/cm@25	5°(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 14:10	5 2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AJ44068	10/14/24 10:00	10/14/24 14:4:	5 1551	SM2540D	
Turbidity	ND NTU	1.0	1	AJ43951	10/11/24 10:33	10/11/24 10:38	3 2303	SM2130B	T-06
Bicarbonate Alkalinity as CaCO3	130 mg/L	30	1	AJ43948	10/11/24 10:10	10/11/24 14:10	5 2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:10	5 2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AJ43948	10/11/24 10:10	10/11/24 14:10	5 2303	SM2320B	
Hardness, Total	116 mg/L	15	1	AJ43832	10/10/24 06:09	10/10/24 11:45	5 2303	SM2340B	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501		Project I Project	Manager: Joh Project: Sur Number: [nor	n face Wa ie]	ter				10/2	Reported: 5/24 11:11
	Resul	t 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 Meth	ods									
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	1		
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	



Mayacma Geothermal LLC	Project Mana	iger: John						
245 E Liberty St Suite 520	Pro	ject: Surface Wa	iter				R	eported:
Reno, NV 89501	Project Num	iber: [none]					10/25/	24 11:11
	Result Units Report	rting Limit Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (24J1848-02)	Sam	ple 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 SM	4500-O G	T-14
pH	7.91 pH Units	1.68 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM	4500-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 SM	2510B	
Total Alkalinity as CaCO3	56 mg/L	30 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM	2320B	
Total Suspended Solids	1.5 mg/L	1.0 1	AJ44068	10/14/24 10:00	10/14/24 14:45	1551 SM	2540D	
Turbidity	1.2 NTU	1.0 1	AJ43951	10/11/24 10:33	10/11/24 10:38	2303 SM	2130B	T-06
Bicarbonate Alkalinity as CaCO3	56 mg/L	30 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM	i2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM	2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM	i2320B	
Hardness, Total	39 mg/L	15 1	AJ43832	10/10/24 06:09	10/10/24 11:48	2303 SM	2340B	
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 EP/	A 300.0	
Microbiological Parameters by APHA Standar	d Methods							
Total Coliforms	1100 MPN/100mL	1.0 1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303 SM	19223B	
E. Coli	91 MPN/100mL	1.0 1	AJ43796	10/09/24 16:25	10/10/24 16:46	2303 SM	(9223B	
SW-9 (24J1848-03)	Sam	ple Type: Water		Sampled	: 10/09/24 10:05	5		
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 EP/	A 200.7	
Calcium	ND mg/L	5.0 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Chromium	ND mg/L	0.010 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Copper	ND mg/L	0.050 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Iron	ND mg/L	0.10 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Lead	ND mg/L	0.020 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Magnesium	2.4 mg/L	0.60 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Manganese	ND mg/L	0.020 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Mercury	ND ug/L	0.20 1	AJ44765	10/23/24 05:56	10/24/24 13:53	1551 EPA	A 245.1	
Sodium	ND mg/L	6.0 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Vanadium	ND mg/L	0.020 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	
Zinc	ND mg/L	0.30 1	AJ43832	10/10/24 06:09	10/10/24 11:51	2303 EP/	A 200.7	



Mayacma Geothermal LLC 245 E Liberty St Suite 520	Project Ma	anager: John Project: Surface Wa	ater			F	eported.
Reno, NV 89501	Project N	umber: [none]				10/25/	/24 11:11
	Result Units R	eporting Limit Dilution	Batch	Prepared	Analyzed	ELAP# Method	Note
SW-9 (24J1848-03)	S	ample Type: Water		Sampled	l: 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
рН	7.54 pH Units	1.68 1	AJ43948	10/11/24 10:10	10/11/24 14:16	2303 SM4500-H+ В	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	d 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)	S	ample Type: Water		Sampled	l: 10/09/24 09:26	í	
Metals by EPA 200 Series Methods		r - 71		I I I			
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Project	Manager: Joh Project: Sur t Number: [nor	n face Wa nel	iter				Ri 10/25/:	eported: 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 09:20	5		
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	A 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
рН	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@2	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 Mo	ethods								
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	



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

e-mail: clientservice	es@alpha-labs.	.com •	Phor	200 ne: (70	07) 46	8-040	01 •	Fax:	(70	07) 46	58-52	82 :67	Lab No.	LUIOUS Page_	of	
Company Name:	Р	Project Na	ame:			F	roject	Numb	ber:		Τ		Signature belo	ow authorizes work under terms stated on reve	se side.	
Mayacma Geothermal LLC	S	Surface	Wate	er										Analysis Request	ТАТ	
Mailing Address:	P	roject Ac	dress	:												17
245 E Liberty St Suite 520 Reno, NV 89501											/	All Sam	ples:		24 hr	1.5
Project Contact (Hardcopy or PDF to): John Casteel John@openmountainenergy.com	P	P.O. #	a teaset side			C	Quote a	#				Metals As, B, (by EPA 20 Ca, Cr, Cu,	00 Series Methods , Fe, Pb, Mg, Mn, Hg, Na, V, Zn	48 hr	VIN
Phone/Fax:	В	Bill to: Mayacma Geothermal LLC						-0	Conven	tional Che	mistry Parameters by APHA/EPA	Approval	e			
775-260-8351	2	45 E Liberty St Suite 520 Reno, NV 89501				ľ	Method	S		Required	ŝ					
	<u>a</u>	account	ing@	open	mou	ntain	energ	gy.co	m		[Dissolv	ed Oxygen	n, pH, Specific Conductance (EC),	1 wk	ab
Samplers Signature:	Sampli	ng	Con	taine	ər	Pres	serva	ative	M	latrix	x	Fotal A	Ikalinity as	CaCO3, Total Suspended Solids,	0	1 Z
dura PHTTA			A						Г			Furbidit	y, Bicarbo	nate Alkalinity as CaCO3,	2 wk	ш
Sample	1		2	ē	Ve	5	040	a			(Carbon	ate Alkalin	ity as CaCO3, Hydroxide Alkalinity	(standard)	
Designation	Date	Time	40m Polv	Amb	Slee	HCL	H2S	None	Wate	Soil	á	as CaC	O3, Hardn	less	0	
SW-6	10/9/240	18:50							Γ			Anions	by FPA M	ethod 300 0		
SW-7 NO Sample, dry crept											Ś	Sulfate	as SO4			
SW-8	0	9:50							Γ		Ì	Junato	43 004			
SW-9	le	2:05							T		r	Microbi	ological Pa	arameters by APHA Standard		
SW-10	00	9:26							Γ			Method	S			
									T			Fotal Co	oliforms, E	. Coli		
											F	Referen	nce Work (Order: 24E4450 for list		
		_									F	Please	provide re	eport as PDF and excel.		
Inelinguisned by:	R	eceived	by:		(A	C			10	-9	-24	Time 13:35	California EDF Report?	s 🔵 No	
Relinquished by:	R	eceived I	by:								C	ate	Time	Global ID:		
								EDF to (Email Address):								
Relinquished by: Received for Laboratory by:						D	ate	Time								
														Drinking Water State System/Source Num	ber:	
Sample Condition on Receipt:	Travel and S	Site Time	: Mi	leage:		Misc.	Supp	lies:								

wko_NBtoUK_COC.rpt

WORK ORDER

24J1848

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC	Client Code: NBS	M_MGLLC	Bid:	
Project: Surface Water	Project Number: [non	e]	PO #:	
Date Due:10/23/24 15:00 (10 day TAT)Received By:Alicia ClarkLogged In By:Cade J Burkhammer	Date Received: Date Logged	10/09/24 13:35 10/09/24 15:24		

Samples Received at: _____ deg C

Analysis	Department	Expires	Comments
24J1848-01 SW-6 [Water] Sam	oled 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] Sam	pled 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] Sam	pled 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] Sar	npled 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 10-10-24

Received By

<u>10-10-24</u> 0740 Date Tim

/ð Date Tim

Date

Received By

wko_NBtoUK_COC.rpt

WORK ORDER

24J1848

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Geothermal LLC Project: Surface Water	Client Code: Project Number:	NBSM_MGLLC [none]	Bid: PO #:	
Containers Supplied: 1L Poly - Unpres (F) 1L Poly - L'Inpres (F)				
IL Poly - Unpres (F) IL Poly - Unpres (F)				
250mL Poly HNO3 (E) 250mL Poly HNO3 (E)				
250mL Poly HNO3 (E) 250mL Poly HNO3 (E) VOA Vial - Linnes (D)				
VOA Vial - Unpres (D) VOA Vial - Unpres (D) VOA Vial - Unpres (D)				
VOA Vial - Unpres (D)				



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,

(1) EV

Stephen F. McWeeney Project Manager



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



Mayacma Geothermal LLC		Project Manager:	John Cast	eel					
245 E Liberty St Suite 520		Project:	Ground W	/ater				F	Reported:
Reno, NV 89501		Project Number:	[none]					12/12/	24 14:38
	Result	Units Reporting I	Limit Dilutio	n Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (24L1000-01)		Sample T	ype: Water		Sample	d: 12/04/24 08:5	6		
Metals by EPA 200 Series Methods									
Arsenic	ND m	ng/L (0.020 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Boron	ND m	ıg/L	0.10 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Calcium	48 m	ıg/L	5.0 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Copper	ND m	ng/L (0.050 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Iron	ND m	ıg/L	0.10 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Lead	ND m	ng/L (0.020 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Magnesium	15 m	ıg/L	0.60 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Manganese	0.11 m	ng/L ().020 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Sodium	8.8 m	ıg/L	6.0 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Zinc	ND m	ıg/L	0.30 1	AL43676	12/09/24 06:10	12/09/24 07:57	2303	EPA 200.7	
Conventional Chemistry Parameters by APH	A/EPA Methods								
рН	8.18 pl	H 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 u	mhos/cm@25%	10 1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	190 m	ng/L	20 1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	ND m	ıg/L	1.0 1	AL43638	12/06/24 09:15	12/09/24 14:45	1551	SM2540D	
Turbidity	ND N	TU	0.50 1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	190 m	ng/L	20 1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND m	ıg/L	5.0 1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND m	ıg/L	5.0 1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	183 m	ıg/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 m	ıg/L	0.40 1	AL43561	12/05/24 11:10	12/05/24 16:04	2303	EPA 300.0	
Sulfate as SO4	20 m	ıg/L	0.50 1	AL43561	12/05/24 11:10	12/05/24 16:04	2303	EPA 300.0	
GW-3 (24L1000-02)		Sample T	ype: Water		Sample	d: 12/04/24 09:3	9		
Metals by EPA 200 Series Methods		-			_				
Arsenic	ND m	ng/L (0.020 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Boron	0.41 m	ng/L	0.10 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Calcium	33 m	ıg/L	5.0 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Copper	ND m	ıg/L (0.050 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Iron	2.0 m	ıg/L	0.10 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Lead	ND m	ıg/L (0.020 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Magnesium	10 m	ıg/L	0.60 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Manganese	0.087 m	ng/L ().020 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Sodium	26 m	ıg/L	6.0 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	
Zinc	ND m	ıg/L	0.30 1	AL43676	12/09/24 06:10	12/09/24 08:08	2303	EPA 200.7	



Mayacma Geothermal LLC		Project N	Anager: Joh	n Caste	el					
245 E Liberty St Suite 520			Project: Gro	und Wa	ter				R	eported:
Reno, NV 89501		Project	Number: [nor	ne]					12/12/2	24 14:38
	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	4 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@2	5°ı 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	



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.

	0.1	Work Order
alpha		Chain of Custody Record
Alpha Analytical Laborato e-mail: clientservices®	ries Inc. 208 Mason Street, Ukiah, California 9 alpha-labs.com • Phone: (707) 468-0401 • Fax: (707) 468	5482 Lab No 2421000 Page [of]
Company Name:	Project Name: Project Number:	Signature below authorizes work under terms stated on reverse side.
Mayacma Geothermal LLC	Ground Water	Analysis Request TAT
Mailing Address:	Project Address:	
245 E Liberty St Suite 520 Reno, NV 89501		All samples: 24 hr 24 hr
Project Contact (Hardcopy or PDF to):	P.O. # Quote #	As, B, Ca, Cu, Fe, Pb, Mg, Mn, Na, Zn
John Casteel John@openmountainenergy.com		Conventional Chemistry Parameters by APHA/EPA
Phone/Fax:	Bill to: Mayacma Geothermal LLC	Methods: Approval
775-260-8351	243 E Liberty St Sulte 320 Reno, NV 89301 accounting@openmountainenergy.com	pH, Specific conductance (EC), Total Alk as CaCO3, TSS, Required
Samplers Signature:	Sampling Container Preservative Matrix	Alkalinity as CaCO3, Hydroxide Alkalinity as CaCO3,
WILL A MULLE	DA	Hardness 2 wk
Sample Designation	Date Time 40ml V Poly Amber Sleeve HCL HNO3 H2SO4 None Water Soil	Anions by EPA Method 300.0
GW-1	V4/24 9:56	
GW-3		Reference Work Order: 24E4445 for complete list.
		Please porvide report as PDF and excel.
Relinquished by:	Received by:	Time California EDF Report? () Yes () No Sampling Company Log Code:
Relinquished by:	Received by:	Date Time Global ID:
Relinquished by:	Received for Laboratory by:	Date Time EDF to (Email Address):
		Drinking Water State System/Source Number:
transie of the second	aveliand Site Time: Avelage Vilec: Stipplies	

wko_NBtoUK_COC.rpt

WORK ORDER 24L1000

Printed: 12/5/2024 8:47:46AM

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Project: Ground V	ı Geothermal LLC Vater	Client Code: NBS Project Number: {non	M_MGLLC e]	Bid: PO #:	Services List
Date Due: Received By: Logged In By:	12/18/24 15:00 (10 day TAT) Ziggie V Burnside Stephen F. McWeeney	Date Received: Date Logged	12/04/24 13:13 12/05/24 08:35		
Samples Received at:	deg C				
Analysis	Department	Expires	Comments		
24L1000-01 GW-1 [Solids, TSS-SM2540D	Water] Sampled 12/04/24 08:56 Wet Chem	12/11/24 23:59			
24L1000-02 GW-3 [Solids, TSS-SM2540D	Water] Sampled 12/04/24 09:39 Wet Chem	12/11/24 23:59		· · · · · · · · · · · · · · · · · · ·	
Containers Supplied IL Poly - Unpres (A) IL Poly - Unpres (A) 250mL Poly HNO3 (C) 250mL Poly HNO3 (C)	l:				

A		40		
1+m2	12/5/24		r 2	12/1/24
Relinquished By	Date /	Received By	Date	Tim
	2 12/5	124 1/4	123	5-24 15/5
Relinquished By	Date	1 St Received By	Date	Tim



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,

(1) EV

Stephen F. McWeeney Project Manager



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



Mayacma Geothermal LLC		Project N	lanager: Joh	n Caste	el					
245 E Liberty St Suite 520			Project: Sur	face Wa	iter				F	Reported:
Reno, NV 89501		Project	Number: [nor	ne]					12/18	/24 14:30
	Resu	lt 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 M	ethods	ł								
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
рН	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@2	5% 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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501	Project Projec	Manager: John Project: Surfa t Number: [none	Caste ace Wa e]	el ter				12/1	Reported: 8/24 14:30
	Result Units	Reporting Limit I	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-6 (24L1003-01)		Sample Type: W	Vater		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 Metho	ods								
Total Coliforms	730 MPN/100mI	1.0	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	20 MPN/100mI	1.0	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
SW-7 (24L1003-02)		Sample Type: W	Vater		Sampled	: 12/04/24 09:08	3		
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520		Project N	lanager: Joh Project: Sur	n Caste face Wa	el iter				Re	eported:
Reno, NV 89501		Project I	Number: [nor	ne]					12/18/2	4 14:30
	Resu	lt Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
SW-7 (24L1003-02)		1	Sample Type:	Water		Sampled	l: 12/04/24 09:08	3		
Conventional Chemistry Parameters by APHA/EPA M	lethods	1								
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
рН	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	i ^o l 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 Meth	ods									
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)		5	Sample Type:	Water		Sampled	l: 12/04/24 08:23	3		
Metals by EPA 200 Series Methods			r yr			r i i				
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520 Reno, NV 89501		Project N Project N	lanager: Joh Project: Sur Number: [nor	n Caste face Wa ne]	el iter				Re 12/18/2	eported: 24 14:30
	Resu	lt Units 1	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP;	# Method	Note
SW-8 (24L1003-03)		5	Sample Type:	Water		Sampled	I: 12/04/24 08:23	3		
Conventional Chemistry Parameters by APHA/EPA M	lethods		1 11							
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
рН	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	i°ı 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 Meth	ods	0								
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	I: 12/04/24 08:41	1		
Metals by EPA 200 Series Methods			umpre 19per	i i iii iii i		Sumplet				
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520	Project N	Manager: John Project: Surfa	ı Caste ace Wa	el ter				Re	eported:
Reno, NV 89501	Project	Number: [none	e]					12/18/2	4 14:30
	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (24L1003-04)		Sample Type: V	Vater		Sampleo	l: 12/04/24 08:41	1		
Conventional Chemistry Parameters by APHA/EPA	A 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
рН	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@2	5°ı 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 Mo	ethods								
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: V	Vater		Sampleo	l: 12/04/24 08:34	4		
Metals by EPA 200 Series Methods		~~ <u>F</u> 5 <u>F</u> ·			~ F				
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	



Mayacma Geothermal LLC 245 E Liberty St Suite 520		Project M	anager: Joh Project: Sur	n Caste face Wa	el iter				R	leported:
Reno, NV 89501	Project Number: [none]							12/18/24 14:30		
	Result	Units F	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-10 (24L1003-05)		S	ample Type:	Water		Sampled	l: 12/04/24 08:34	1		
Conventional Chemistry Parameters by APHA/EPA	Methods									
Dissolved Oxygen	11 1	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 j	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 u	umhos/cm@25	°ı 10	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2510B	
Total Alkalinity as CaCO3	49 i	mg/L	20	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Total Suspended Solids	1.4 1	mg/L	1.0	1	AL43597	12/06/24 14:00	12/09/24 11:15	1551	SM2540D	
Turbidity	3.0 I	NTU	0.50	1	AL43600	12/05/24 15:48	12/05/24 16:13	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	49 i	mg/L	20	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND 1	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND 1	mg/L	5.0	1	AL43698	12/06/24 14:30	12/06/24 15:17	2303	SM2320B	
Hardness, Total	42 1	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 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 Mo	ethods									
Total Coliforms	730 N	MPN/100mL	1.0	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	
E. Coli	66 I	MPN/100mL	1.0	1	AL43551	12/05/24 09:58	12/06/24 13:20	2303	SM9223B	



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 | |
|--|--|--|--|---|---------------|
| alaha | Ð | 510 | ט
ט | iain of Custody Reco | ord |
| Alpha Analytical Laborate
e-mail: clientservices@ | ories Inc. 208 Mason
@alpha-labs.com • Phone: (707) 468-6 | Street, Ukiah, California 95/
0401 • Fax: (707) 468-5 | 182
267 Lab No. ∠ | 24L1003 Page L | ot |
| Company Name: | Project Name: | Project Number: | Signature belo | w authorizes work under terms stated on reverse | síde. |
| Mayacma Geothermal LLC | Surface Water | | | Analysis Request | ТАТ |
| Mailing Address: | Project Address: | | | | |
| 245 E Liberty St Suite 520 Reno, NV 89501 | | <u> </u> | All Samples:
Metals hv FPA 200 |) Series Methods | 24 hr |
| Project Contact (Hardcopy or PDF to): | P.O.# | Quote # | As, B, Ca, Cr, Cu, | Fe, Pb, Mg, Mn, Hg, Na, V, Zn | 48 hr |
| John@openmountainenergy.com | | | | | |
| Phone/Fax:
775-260-8351 | Bill to: Mayacma Geoth
245 E Liberty St Suite 52 | ermal LLC
0 Reno, NV 89501 | Conventional Cher
Methods | nistry Parameters by APHA/EPA | Approval 2010 |
| | accounting@openmounts | ainenergy.com | Dissolved Oxygen, | pH, Specific Conductance (EC), | 1 wk |
| Samplers Signature: | Sampling Container P | reservative Matrix | Total Alkalinity as (| CaCO3, Total Suspended Solids, | 0 |
| ZUNY PLATE | AO | | Turbidity, Bicarbon | ate Alkalinity as CaCO3, | 2 wk |
| Sample
Designation | Date Time Scieeve | Soil
Water
H2SO4
HNO3 | carbonate Alkalini
as CaCO3, Hardne | y as cacus, hydroxide Aikalinity
sss | (standard) |
| SW-6 | 3/4/24 7:40 | | Aniono his EDA Mo | | |
| SW-7 | 1 6:23 9:08 | | Anions by EnA ive
Sulfate as SO4 | | |
| SW-8 | 8:23 | | | | |
| SW-9 | 8:4 | | Microbiological Paı | ameters by APHA Standard | |
| SW-10 | 1 8:34 | | Methods | : | |
| | | | Total Coliforms, E. | Coli | |
| | | | Reference Work O | rder: 24E4450 for list | |
| | | | Please provide re | port as PDF and excel. | |
| | | | | | |
| Relinquished by: | Received by: | , | Jate Time | California EDF Report? O Yes | °¤
O |
| OULAN FIMM | SM . | | 24 20 130 | | |
| Relinquished by: | Received by: | | Date Time | Global ID;
FDF tn (Fmail Address): | |
| Relinquished by: | Received for Laboratory by: | | Date Time | | |
| | | | | Drinking Water State System/Source Numbe | c |
| | bue estatate gives Milesibere
Milesia | laði Supgliet
Har sei sei sei sei | | | |

WORK ORDER

Printed: 12/5/2024 9:06:22AM

24L1003

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Mayacma Project: Surface W	Geothermal LLC Vater	Client Code: NBS Project Number: [nor	6M_MGLLC 1e]	Bid: PO #:	Services List
Date Due: Received By: Logged In By:	12/18/24 15:00 (10 day TAT) Ziggie V Burnside Stephen F. McWeeney	Date Received: Date Logged	12/04/24 13:17 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				

Biss Oxygen Bin+500	wet Chem	12/04/24 07:34
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] Sa	ampled 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] Sa	ampled 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] Sa	ampled 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] S	ampled 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 2 Received By Date Date Tim Relinquished By 12/5/24 Received By Date Date Tim Relinquished By 1511

wko_NBtoUK_COC.rpt

WORK ORDER

24L1003

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Project:	Mayacma Geothermal LLC Surface Water	Client Code: Project Number:	NBSM_MGLLC [none] P	Bid: PO #:	Services List
Containe IL Poly -	rrs Supplied: Unpres (A)	·			
TL Poly - TL Poly - TL Poly -	Unpres (A) Unpres (A) Unpres (A)				
i L Poly - VOA Via	Unpres (A) I - Unpres (D)				
VOA Via VOA Via VOA Via	I - Unpres (D)				
VOA Via	I - Unpres (D)				