



alpha

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

20 May 2026

Backcountry Analytical
Attn: Matthew Earnhart
PO Box 1196
Alpine, CA 91903
RE: Water Quality
Work Order: 26E3183

Enclosed are the results of analyses for samples received by the laboratory on 05/18/26 13:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jake Keeney
Project Manager



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Explanation of Homeowner Package Results

Arsenic	SWRCB allows up to 0.01 mg/L in public water systems
Boron	EPA has no drinking water guidelines. For agricultural purposes: <0.5 mg/L Satisfactory for all crops 0.5 – 2.0 mg/L Sensitive crops affected 2.0 – 10 mg/L Only tolerant crops will produce yields
Calcium	Unregulated, analyzed to calculate hardness
Specific Conductance (EC)	<900 umhos/cm Acceptable >900 umhos/cm Water is high in dissolved minerals
Iron	SWRCB recommends no more than 0.3 mg/L for public water systems.
Hardness, total	Soft = <50 mg/L Medium = 50 – 100 mg/L Hard = 100 – 200 mg/L Very Hard = >200 mg/L
Potassium	Unregulated
Magnesium	Unregulated, analyzed to calculate hardness
Manganese	SWRCB recommends <0.5 mg/L for public water systems
Sodium	No official guidelines. USEPA recommends <20 mg/L for sodium restricted diets.
Nitrate as N	SWRCB allows up to 10 mg/L in public water systems
Nitrite as N	SWRCB allows up to 1 mg/L in public water systems
pH	Acidic = Under 6.5 Acceptable = 6.5 – 8.0 Alkaline = Over 8.0
Sulfate	SWRCB recommends <250 mg/L for public water systems
TDS	SWRCB recommends <500 mg/L for public water systems
Total Coliform and E. Coli	Absent/Absent = No coliforms detected, ideal for water Present/Absent = Total coliform was detected. the water is potentially unsafe and suitable to disinfect. Present/Present = E. Coli bacteria is present. The water is unsafe.

SWRCB = California State Water Resources Control Board



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Project Manager: Matthew Earnhart
Project: Water Quality
Project Number: 7256 Cosmit Lane Julian, Ca. 92036

Reported:
05/20/26 10:21

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: 980 Park Center Drive Suite C | Vista, CA 92081 | 760-930-2555 | ELAP# 3055
Los Angeles: 1250 E. 29th Street | Signal Hill, CA 90755 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
7256 Cosmit Lane (Well)	26E3183-01	Water	05/17/26 12:00	05/18/26 13:57
7256 Cosmit Lane (Kitchen Sink)	26E3183-02	Water	05/17/26 11:30	05/18/26 13:57



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See Page 2 for Explanation of Results

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
7256 Cosmit Lane (Well) (26E3183-01)			Sample Type: Water			Sampled: 05/17/26 12:00				
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.30	1	AE65605	05/18/26 14:04	05/18/26 21:10	3055	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	Absent	.	1	1	AE65639	05/18/26 14:45	05/19/26 14:45	3055	SM9223B	
E. Coli	Absent	.	1	1	AE65639	05/18/26 14:45	05/19/26 14:45	3055	SM9223B	
7256 Cosmit Lane (Kitchen Sink) (26E3183-02)			Sample Type: Water			Sampled: 05/17/26 11:30				
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.30	1	AE65605	05/18/26 14:04	05/18/26 21:34	3055	EPA 300.0	
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	Absent	.	1	1	AE65639	05/18/26 14:45	05/19/26 14:45	3055	SM9223B	
E. Coli	Absent	.	1	1	AE65639	05/18/26 14:45	05/19/26 14:45	3055	SM9223B	



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Notes and Definitions

A Absent
P Present
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.

[illegible]