



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

08 December 2020

Volcano CSD

Attn: Nick Lawson

P O Box 72

Volcano, CA 95689

RE: Water Quality

Work Order: 20K3188

Enclosed are the results of analyses for samples received by the laboratory on 11/24/20 22:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Karen L. Lantz

Project Manager



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Volcano CSD
P O Box 72
Volcano, CA 95689

Project Manager: Nick Lawson
Project: Water Quality
Project Number: 0300016

Reported:
12/08/20 09:49

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | T: 925-828-6226 | F: 925-828-6309 | ELAP# 2728
Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | T: 916-686-5190 | F: 916-686-5192 | ELAP# 2922
North Bay: 110 Liberty Street | Petaluma, CA 94952 | T: 707-769-3128 | F: 707-769-8093 | ELAP# 2303
San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | T: 760-930-2555 | F: 760-930-2510 | ELAP# 3055

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Well No. 1	20K3188-01	Water	11/24/20 10:00	11/24/20 22:40



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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
Well No. 1 (20K3188-01)		Sample Type: Water			Sampled: 11/24/20 10:00				
Metals (Drinking Water) by EPA 200 Series Methods									
Calcium	83 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Iron	13000 ug/L	100	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Magnesium	27 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Potassium	2.0 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Sodium	14 mg/L	1.0	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	EPA 200.7	
Metals by EPA Method 200.8 ICP/MS									
Copper	ND ug/L	50	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Manganese	150 ug/L	20	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Silver	ND ug/L	10	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Zinc	ND ug/L	50	4	AK04441	11/30/20 13:50	12/01/20 23:16	1551	EPA 200.8	
Conventional Chemistry Parameters by APHA/EPA Methods									
Aggressive Index	12.06 NU	2.00	1	AK04446	11/30/20 11:50	12/04/20 14:08	1551	AWWA	
Bicarbonate	250 mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Carbonate	ND mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Hydroxide	ND mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
MBAS, calculated as LAS, mw 340	ND mg/L	0.050	1	AK04373	11/25/20 14:00	11/25/20 15:00	1551	SM5540C	
pH	7.42 pH Units	1.68	1	AK04412	11/24/20 15:35	11/24/20 15:35	2922	SM4500-H+ B	T-14
Specific Conductance (EC)	430 umhos/cm	20	1	AK04495	11/30/20 16:25	11/30/20 16:25	2922	SM2510B	
Total Dissolved Solids	290 mg/L	10	1	AK04407	11/24/20 16:00	11/25/20 15:00	2922	SM2540C	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AK04455	11/30/20 08:00	11/30/20 17:00	1551	SM2320B	
Hardness, Total	317 mg/L	5	1	AK04446	11/30/20 11:50	12/03/20 13:51	1551	SM2340B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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 Volcano, CA 95689

Project Manager: Nick Lawson
 Project: Water Quality
 Project Number: 0300016

Reported:
 12/08/20 09:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
Well No. 1 (20K3188-01)									
Anions by EPA Method 300.0									
Chloride	12 mg/L	0.50	1	AK04426	11/24/20 14:57	11/24/20 14:57	2922	EPA 300.0	
Sulfate as SO4	7.8 mg/L	0.50	1	AK04426	11/24/20 14:57	11/24/20 14:57	2922	EPA 300.0	

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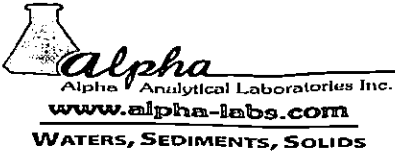
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P O Box 72
Volcano, CA 95689

Project Manager: Nick Lawson
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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.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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



Corporate Laboratory (1561)
208 Mason Street, Ukiah CA 95482
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707.468.5267 (fax)
clientservices@alpha-labs.com

North Bay Laboratory (2303)
110 Liberty Street, Petaluma CA 94952

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

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

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

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 20K3188 Pg of

Report to		Invoice to (if different)				Project Information						Signature below authorizes work under terms stated on reverse side.																																																																																																																			
Company: Volcano CSD		Contact:				Project ID: Water Quality						<table border="1"> <tr> <td colspan="14">Analysis Request</td> <td>TAT</td> <td>TEMP °C</td> </tr> <tr> <td colspan="14" rowspan="4"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of Containers per Sample ID CV - General Mineral CV-TCEC Quantitroy </div> </td> <td>Standard 10 days</td> <td>Ukiah 2-8</td> </tr> <tr> <td>RUSH: 5 days</td> <td>Livermore</td> </tr> <tr> <td>48 hours</td> <td>Elk Grove 29C</td> </tr> <tr> <td>Other: ____ days</td> <td>Petaluma</td> </tr> <tr> <td colspan="14"></td> <td>Preapproval required</td> <td>Carlsbad</td> </tr> <tr> <td colspan="14"></td> <td colspan="2">Notes / DDW Source Codes</td> </tr> <tr> <td colspan="14"></td> <td colspan="2">CV - pH, EC, TDS, CL, S04</td> </tr> <tr> <td colspan="14"></td> <td colspan="2">]- On Sep 6/10</td> </tr> </table>														Analysis Request														TAT	TEMP °C	<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of Containers per Sample ID CV - General Mineral CV-TCEC Quantitroy </div>														Standard 10 days	Ukiah 2-8	RUSH: 5 days	Livermore	48 hours	Elk Grove 29C	Other: ____ days	Petaluma															Preapproval required	Carlsbad															Notes / DDW Source Codes																CV - pH, EC, TDS, CL, S04]- On Sep 6/10	
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Phone/Fax: 209-304-7628		Phone/Fax:																																																																																																																													
Email Address: nlwsn49@gmail.com																																																																																																																															
Field Sampler - Printed Name & Signature: Nick Lawson / <i>nlwsn</i>																																																																																																																															
Sample Identification		Sampling		Container				Preservative				Matrix																																																																																																																			
		Date	Time	40ml VOA Vial	Plastic	Glass	Sleeve	Other	HCl	HNO3	H2SO4	Other	None	Drinking Water	Wastewater	Soil	Other																																																																																																														
✓ WELL NO. <u>1</u>	<u>11-24</u>	<u>1000</u>	x						x			x	x				5	x																																																																																																													
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Relinquished by <i>nlwsn</i>	Received by <i>[Signature]</i>	Date <u>11-24</u>	Time <u>1100</u>	DDW Write On EDT Transmission? Yes No
<i>[Signature]</i>	<i>[Signature]</i>	<u>11-24-00</u>	<u>1820</u>	State System Number: If "Y" please enter the Source Number(s) in the column above
<i>[Signature]</i>	<i>[Signature]</i>	<u>11-24-00</u>	<u>1900</u>	CA Geotracker EDT Report? Yes No
<i>[Signature]</i>	<i>[Signature]</i>	<u>11/24/10</u>	<u>1600</u>	Global ID: EDT to EDT Address: Global ID: Sampling Company Log Code:
<i>[Signature]</i>	<i>[Signature]</i>	<u>11/24/20</u>	<u>1855</u>	
<i>[Signature]</i>	<i>[Signature]</i>	<u>11/24/20</u>	<u>2240</u>	