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

02 July 2020

Coyote Valley Tribal Council
Attn: Karola Kennedy
P.O. Box 39
Redwood Valley, CA 95470

RE: Coliform
Work Order: 20F3142

Enclosed are the results of analyses for samples received by the laboratory on 06/26/20 14:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette Poplin

Jeanette L. Poplin For Sheri L. Speaks
Project Manager

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Coyote Valley Tribal Council	Project Manager: Karola Kennedy	
P.O. Box 39	Project: Coliform	Reported:
Redwood Valley, CA 95470	Project Number: CWA319	07/02/20 07:19

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
CABFOR	20F3142-01	Water	06/26/20 10:04	06/26/20 14:20
CASFOR	20F3142-02	Water	06/26/20 09:01	06/26/20 14:20
WRUSS	20F3142-03	Water	06/26/20 11:08	06/26/20 14:20

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P.O. Box 39	Project: Coliform	Reported:
Redwood Valley, CA 95470	Project Number: CWA319	07/02/20 07:19

	Result		Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
CABFOR (20F3142-01)			**Sample Type: Water**			**Sampled: 06/26/20 10:04**				
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**2419.6**	**MPN/100mL**	**1.0**	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	
E. Coli	**15.6**	**MPN/100mL**	**1.0**	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	
CASFOR (20F3142-02)			**Sample Type: Water**			**Sampled: 06/26/20 09:01**				
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	>2419.6	MPN/100mL	1.0	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	
E. Coli	**209.8**	**MPN/100mL**	**1.0**	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	
WRUSS (20F3142-03)			**Sample Type: Water**			**Sampled: 06/26/20 11:08**				
Microbiological Parameters by APHA Standard Methods										
Total Coliforms	**2419.6**	**MPN/100mL**	**1.0**	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	
E. Coli	**22.3**	**MPN/100mL**	**1.0**	1	AF04458	06/26/20 15:00	06/27/20 17:00	1551	SM9223B	

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Coyote Valley Tribal Council	Project Manager: Karola Kennedy	
P.O. Box 39	Project: Coliform	Reported:
Redwood Valley, CA 95470	Project Number: CWA319	07/02/20 07:19

Notes and Definitions

>2419.6	>2419.6
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories Inc.
www.alpha-labs.com
WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551)
208 Mason Street, Ukiah CA 95482
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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 Laboratory (3055)
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 20F3142 Pg 1 of 1

Report to	Invoice to (if different)	Project Information
Company: Coyote Valley Tribal Council	Contact:	Project ID: CWA319
Attn: Karola Kennedy	Email address:	Project No:
Address: 7601 N. State Street, Redwood Valley CA 95470	Address:	PO Number: 062620
Phone/Fax: 707-472-2260	Phone/Fax:	
Email Address: Epddir@coyotevalley-nsn.gov		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature: Steve Elliott

Sample Identification	Sampling Date	Sampling Time	Container: 40ml VOA Vial	Container: Plastic	Container: Glass	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: Other	Preservative: None	Matrix: Drinking Water	Matrix: Wastewater	Matrix: Soil	Matrix: Other	Total Number of Containers per Sample ID	Analysis Request: BAC T Quanti Tray
CABFOR	6-26-20	1004																X
CASFOR	6-26-20	9:01																X
WRUSS	6-26-20	1108																X

TAT
Standard 10 days (X)
RUSH:
5 days ( )
48 hours ( )
Other: ____days ( )
Preapproval required

TEMP °C
Ukiah 0.7
Livermore
Elk Grove
Petaluma
Carlsbad

Notes / DDW Source Codes

Relinquished by	Received by	Date	Time
		6-26-20	1420

DDW Write On EDT Transmission? ( ) Yes ( ) No
State System Number: _____
If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? ( ) Yes ( ) No
Global ID: Sampling Company Log Code:
EDF to (Email Address):
Travel and Site Time: Mileage: Misc. Supplies:

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 •Phone: (916) 686-5190 • Fax: (916) 686-5192

BACTERIA INFORMATION

We test for one type of bacteria at Alpha Analytical Laboratories, Inc. That type is known as Coliform Bacteria. Coliform describes a large grouping of several species of bacteria. In the type of testing we do, we refer to Total Coliform and Fecal Coliform. Total coliform tests are done to indicate if the potential exist for the types of bacteria, that can cause disease. Coliform Bacteria are not in themselves pathogenic (cause disease), but if coliform bacteria are present in your water, then it can be assumed that at least the potential exists for pathogens to also be present.

We also test for fecal coliform bacteria. Fecal coliform refers to a single species of bacteria, Escherichia coli. If fecal coliform bacteria are present in your well, it means that fecal matter from a warm-blooded source is present. Fecal matter is a common source of the specific types of bacteria that can cause disease, so you can see what a potentially dangerous situation exists if fecal coliform bacteria are in your water system.

If you wish more specific information concerning pathogenic bacteria in drinking water, please call your local public health department.

Sincerely,

Alpha Analytical Laboratories, Inc.

Robbie C. Phillips
President

FOR HOLDING TANK:
To Shock: 3 cups Bleach per 1000 Gal.
Maintain: 1 cup Bleach per 1000 Gal.

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Well Disinfection for Bacterial Contamination

If water from a well is found to be contaminated with coliform bacteria, it may be possible to eliminate the contamination by disinfecting the well. If the well is improperly constructed or poorly located, contamination may not be eliminated or may be only temporarily eliminated. In that case, a permanent disinfection system or a new well may be necessary. Well water systems may be disinfected by adding chlorine bleach to the water in the well. Clorox, Purex, White Magic, and Sani-Clor are some of the trade names for liquid bleaches sold in grocery stores. Read the label to insure it says the bleach contains 5.25 percent sodium hypochlorite. Use the following dosages as a guide:

Well Casing Diameter	Amount of Chlorine Bleach Needed
4 inches	Two and one-half (2 ½) cups
6 inches	Five (5) cups
8 inches	Seven and one half (7 ½) cups
12 inches	Twenty (20) cups or 1 ¼ gallons

NOTE: These quantities are for 100 feet of well depth. Adjust the quantities to fit the depth of your well. Use only unscented bleach.

These are the steps you should follow:

1. If the water is cloudy, attempt to clear as much as possible by pumping the well to waste. With the pump NOT operating, add the chlorine. It may be necessary to lift the pump, but some wells have openings that can be used for this purpose. The bleach should be added between the casing and the suction pipe of the pump.
2. Do not operate the pump for 30 minutes. After the 30-minute period, with the taps, faucets and hydrants open or closed, surge the well by starting and stopping the pump several times.
3. Open every tap, faucet or hydrant in the water piping system. Start the pump and let water flow until clean water with a strong smell of chlorine comes out.
4. Stop the pump and close all taps, faucets and hydrants and allow the mixture to stand in the system for 24 hours, or at least overnight. Disinfectant contact time with bacteria is important.
5. After contact time is accomplished, flush the chlorine mixture from the system by hooking a garden hose to an outside tap and running until no chlorine odor is present. Do not flush the mixture into your septic system by running chlorinated water down drains!! Your septic system was not designed to handle the large continuous flow of water necessary to remove the chlorine and chlorine is harmful to the beneficial bacteria that make your septic tank function properly. Since chlorine will kill grass and plants, be careful where you run the water outside. Do not run mixture into streams, rivers, etc.
6. When you can no longer smell chlorine in the water, close all taps and faucets and use the system normally.
7. After at least one week, you should have your water retested for the presence of bacteria.