



**Stevens Ecology**  
**Water Analysis Report**

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**Sample Information**

<b>Project Number:</b>	0000004729			Standard Analysis Package	
<b>Client:</b>	Gale	Yarber	galeyarber@yahoo.com		
	501 E. Granite Castle Drive				
	Granite Shoals		TX	78654	
<b>Sample Number:</b>	4729.2	lat	0.00 °	<b>Sample Date:</b>	Sep 17, 2014
<b>Sample Source:</b>	other	long	0.00 °	<b>Date Received:</b>	Sep 26, 2014
	0	depth	0.0 m	<b>Report Date:</b>	Oct 3, 2014
<b>Sample Description:</b>	Traveller Water Generator				

Notes: Values in red appear to exceed recommended limits.

No harmful bacteria detected - sample is apparently sterile. However, 9-day holding time makes microbiological tests invalid.

Sample is very "soft." No detectable divalent cations. Therefore, unable to calculate LI or SAR

Overall, very low in solutes.

See our web site for more information: <http://www.stevensecology.com/webstore/Results.htm>

## Microbiological Analysis

Test	result	units	Interpretation	recommended limit		
				Drinking	Recreation	Irrigation
Coliform Bacteria	ABSENT		free of septic contamination	0	500	500
Total Bacteria		0 CFU/ml	apparently sterile	500	-	-

## Physical Analysis

Test	units	result	interpretation	recommended limit		
				Drinking	Livestock	Irrigation
pH		7.22	neutral	5 - 8		5 - 7
Conductivity	µS.cm <sup>-1</sup>	43				
Total Dissolved Solids	ppm	25	fresh	500	500	500
Hardness	ppm	0	soft	170	-	-
Alkalinity (as CaCO <sub>3</sub> )	ppm	26	low	400	400	100
Turbidity	NTU	0.80	clear	1 - 5	-	-
Sodium Absorption Ratio			unable to calculate	-	-	50
Langelier Index	@25°C		unable to calculate (very low)	-	-	<0

## Chemical Analysis

Type	Chemical	Your Sample		recommended upper limits (ppm)		
		µM	ppm	Drinking	Livestock	Irrigation
Anions	Fluoride	0	0.0	2	2	-
	Chloride	30	1.1	250	1500	-
	Bromide	0	0.0	-	-	-
	Nitrite	0	0.0	3.3	10	-
	Nitrate	14	0.9	44.2	100	-
	Phosphate	0	0.0	-	-	-
	Sulfate	2	0.2	250	1500	-
	Silicates	0	0.0	-	-	-
	Chlorate	0	0.0	0.8	-	-
	Carbonate	260	15.6	240	7	60
Cations	Sodium	164	3.8	250	2000	-
	Potassium	88	3.4	-	-	-
	Ammonium	0	0.0	-	-	-
	Magnesium	0	0.0	-	2000	-
	Calcium	0	0.0	-	-	-
	Strontium	0	0.0	-	-	-
Metals	Iron (ferric)	0.22	0.01	-	-	-
	Iron (ferrous)	0.00	0.00	-	-	-
	Iron (total)	0.22	0.01	0.30	-	-
	Manganese	0.00	0.00	0.05	-	2
	Copper	0.03	0.00	1.00	0.5	0.2

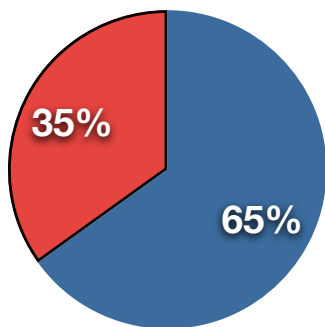
Type	Chemical	Your Sample		recommended upper limits (ppm)		
		$\mu\text{M}$	ppm	Drinking	Livestock	Irrigation
	Nickel	0.00	0.00	0.10	-	0.2
	Zinc	0.34	0.02	5.00	24	2
	Cobalt	0.00	0.00	-	1	0.05
	Cadmium	0.00	0.00	0.01	-	-

Values near detection limit may be false-positive

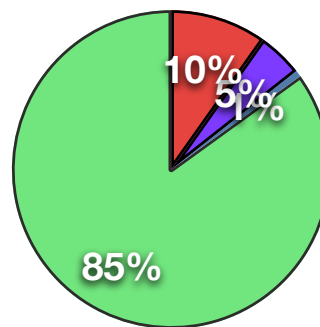
### Hydrocarbons, Volatiles, and Pesticides

Type	Chemical	Your Sample (ppb)	recommended upper limits (ppb)

**Cations**



**Anions**



- Cations Sodium
- Potassium
- Anions Fluoride
- Chloride
- Bromide
- Nitrite
- Ammonium
- Magnesium
- Nitrate
- Phosphate
- Sulfate
- Silicates
- Calcium
- Strontium
- Chlorate
- Carbonate

Notes:

Stevens Ecology uses procedures established by EPA, AOAC, APHA, AWWA, WPCF, and those documented and validated in our laboratory.

Recommendations are based on guidelines published by EPA and USDA and are presented here as a convenience to the customer. Stevens Ecology makes no recommendations and makes no warranty to the accuracy or applicability of such recommendations supplied by others.

ppm = milligrams per kilogram

$\mu\text{M}$  = micromoles per liter

cfu = colony forming units (nominally individual bacteria)

Where the concentration of an analyte is listed as "0" (zero) it is below the detection limit of the analytical method. Traces quantities below this limit may be present.

Certain properties may be altered by exposure to the atmosphere, or temperature fluctuation during shipment while we strive to provide accurate results, different values might be obtained from testing directly at the source

**WARRANTY:** Stevens Ecology guarantees to perform the services described in the product description or work order. Stevens Ecology makes no warranty of any kind regarding the results of these analyses. The client assumes all risk and liability that may arise from the use of these results. The liability of Stevens Ecology to the client for any purpose shall be limited to a sum equal to the fees paid by the client to Stevens Analytical for analysis.

We thank you for your business and hope to provide you with analytical services in the future!