

Summary

UWEX Private Well Project

Douglas County

2018

3/15/2018

4:33 PM

Total Number Samples: 94

Sample Dates: 2/4/2018 to 2/5/2018

Reason for Test	Last Test (yr)	Problems	Treatment Sys	Depth (ft) Well	Casing	Water	Well Diam (in)			
Curious	72 %	Never 17 %	Color 10 %	Softener 22 %	... 25	0 %	0 %	10 %	... 3	4 %
Problems	7 %	< 1 3 %	Taste 17 %	R/O 2 %	26-50	5 %	2 %	5 %	4 - 9	60 %
Regular	2 %	1 - 2 1 %	Odor 22 %	Carb Filt 10 %	51-100	13 %	11 %	4 %	10 - 18	0 %
Required	0 %	2 - 5 7 %	Corr 3 %	Neutral 1 %	101-150	11 %	2 %	2 %	18 +	0 %
Bac Retest	0 %	5 - 10 14 %	Health 1 %	Part Filt 19 %	151-200	11 %	3 %	0 %		
Disinfect	1 %	10 + 20 %	Other 10 %	Iron Filt 2 %	201 ...	14 %	2 %	1 %		
Infant...	6 %	Unk 27 %	None 45 %	Other 4 %						
Other	6 %									

pH

... 5.00	0	0 %
5.01 - 6.00	0	0 %
6.01 - 7.00	2	2 %
7.01 - 8.00	26	28 %
8.01 - 9.00	63	67 %
9.01 ...	3	3 %
Avg: 7.92	for	94 Samples

Conductivity (umhos/cm)

... 100	6	6 %
101 - 250	38	40 %
251 - 500	20	21 %
501 - 750	14	15 %
751 - 1000	5	5 %
1001 ...	11	12 %
Avg: 439	for	94 Samples

Alkalinity (mg/L CaCO3)

... 50	9	10 %
51 - 100	26	28 %
101 - 200	43	47 %
201 - 300	5	5 %
301 - 400	2	2 %
401 ...	7	8 %
Avg: 152	for	92 Samples

Total Hardness (mg/L CaCO3)

... 50	29	31 %
51 - 100	31	33 %
101 - 200	18	19 %
201 - 300	2	2 %
301 - 400	4	4 %
401 ...	10	11 %
Avg: 141	for	94 Samples

Nitrate (mg/L as N)

None Detected	83	88 %
... 2.0	9	10 %
2.1 - 5.0	2	2 %
5.1 - 10.0	0	0 %
10.1 - 20.0	0	0 %
20.1 ...	0	0 %
Avg: 0.1	for	94 Samples

Chloride (mg/L)

None Detected	0	0 %
... 10	69	73 %
11 - 50	13	14 %
51 - 100	7	7 %
101 - 200	4	4 %
201 ...	1	1 %
Avg: 19	for	94 Samples

Saturation Index

... -3.0	0	0 %
-2.9 - -2.0	2	2 %
-1.9 - -1.0	9	10 %
-0.9 - 0.0	53	58 %
0.1 - 1.0	27	29 %
1.1 ...	1	1 %
Avg: -0.2	for	92 Samples

Coliform Bacteria

Bact Samples	94	
Pos Bacteria	5	5 %

E. coli Bacteria

E. coli Samples	5	
Pos E. coli	0	0 %

Atrazine Screen* (ppb)

None Detected	0	%
... 0.3	0	%
0.4 - 1.0	0	%
1.1 - 2.0	0	%
2.1 - 3.0	0	%
3.1 ...	0	%
Avg:	for	0 Samples

*Triazine screen before June 2008, then Diaminochlorotriazine (DACT).

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Arsenic (mg/L)

None Detected	80	85 %
... 0.010	13	14 %
0.011 - 0.050	1	1 %
0.051 - 0.100	0	0 %
0.101 - 0.150	0	0 %
0.151 ...	0	0 %
Avg: <0.005 for	94 Samples	

Calcium (mg/L)

None Detected	3	3 %
... 25	61	65 %
26 - 50	19	20 %
51 - 75	3	3 %
76 - 100	5	5 %
101 ...	3	3 %
Avg: 25.3 for	94 Samples	

Copper (mg/L)

None Detected	30	32 %
... 0.130	54	57 %
0.131 - 0.500	8	9 %
0.501 - 0.900	1	1 %
0.901 - 1.300	0	0 %
1.301 ...	1	1 %
Avg: 0.088 for	94 Samples	

Iron (mg/L)

None Detected	21	22 %
... 0.300	57	61 %
0.301 - 1.000	8	9 %
1.001 - 2.000	1	1 %
2.001 - 5.000	4	4 %
5.001 ...	3	3 %
Avg: 0.835 for	94 Samples	

Potassium (mg/L)

None Detected	2	2 %
... 20	91	97 %
21 - 40	1	1 %
41 - 60	0	0 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 1.9 for	94 Samples	

Magnesium (mg/L)

None Detected	8	9 %
... 20	66	70 %
21 - 40	9	10 %
41 - 60	3	3 %
61 - 80	4	4 %
81 ...	4	4 %
Avg: 14.7 for	94 Samples	

Manganese (mg/L)

None Detected	22	23 %
... 0.050	44	47 %
0.051 - 0.300	26	28 %
0.301 - 0.500	1	1 %
0.501 - 1.000	0	0 %
1.001 ...	1	1 %
Avg: 0.061 for	94 Samples	

Sodium (mg/L)

None Detected	0	0 %
... 25	49	52 %
26 - 50	13	14 %
51 - 75	16	17 %
76 - 100	5	5 %
101 ...	11	12 %
Avg: 45.2 for	94 Samples	

Lead (mg/L)

None Detected	85	90 %
... 0.015	5	5 %
0.016 - 0.025	4	4 %
0.026 - 0.050	0	0 %
0.051 - 0.100	0	0 %
0.101 ...	0	0 %
Avg: <0.002 for	94 Samples	

Sulfate (mg/L)

None Detected	1	1 %
...25	69	73 %
26 - 50	9	10 %
51 - 75	2	2 %
76 - 100	1	1 %
101 ...	12	13 %
Avg: 43 for	94 Samples	

Zinc (mg/L)

None Detected	16	17 %
... 0.100	60	64 %
0.101 - 0.500	7	7 %
0.501 - 1.000	4	4 %
1.001 - 5.000	6	6 %
5.001 ...	1	1 %
Avg: 0.276 for	94 Samples	