

Summary

UWEX Private Well Project

Columbia Co. Well Testing Summary

2017-2020

10/5/2020

2:20 PM

Total Number Samples: 802

Sample Dates: 10/8/2017 to 8/25/2020

Reason for Test		Last Test (yr)		Problems		Treatment Sys		Depth (ft) Well		Casing	Water	Well Diam (in)	
Curious	90 %	Never	5 %	Color	7 %	Softener	73 %	... 25	<1%	<1%	4%	... 3	3%
Problems	4 %	< 1	1 %	Taste	5 %	R/O	7 %	26-50	1%	3%	5%	4 - 9	53%
Regular	7 %	1 - 2	5 %	Odor	5 %	Carb Filt	5 %	51-100	7%	11%	7%	10 - 18	<1%
Required	<1%	2 - 5	14%	Corr	2 %	Neutral	<1%	101-150	15%	8%	2%	18 +	<1%
Bac Retest	<1%	5 - 10	21%	Health	<1%	Part Filt	22 %	151-200	9%	3%	<1%		
Disinfect	<1%	10 +	27%	Other	6 %	Iron Filt	8 %	201 ...	7%	1%	<1%		
Infant...	2 %	Unk	23 %	None	59 %	Other	2 %						
Other	6 %												

pH			Conductivity (umhos/cm)			Alkalinity (mg/L CaCO ₃)		
... 5.00	0	0 %	... 100	4	<1 %	... 50	10	1 %
5.01 - 6.00	0	0 %	101 - 250	9	1 %	51 - 100	9	1 %
6.01 - 7.00	8	1 %	251 - 500	148	19 %	101 - 200	51	6 %
7.01 - 8.00	550	70 %	501 - 750	445	56 %	201 - 300	451	57 %
8.01 - 9.00	232	29 %	751 - 1000	138	17 %	301 - 400	257	33 %
9.01 ...	0	0 %	1001 ...	46	6 %	401 ...	12	2 %
Avg: 7.78	for	790 Samples	Avg: 654	for	790 Samples	Avg: 277	for	790 Samples

Total Hardness (mg/L CaCO ₃)			Nitrate (mg/L as N)			Chloride (mg/L)		
... 50	76	10 %	None Detected	122	15 %	None Detected	1	<1 %
51 - 100	4	<1 %	... 2.0	136	17 %	... 10	302	38 %
101 - 200	41	5 %	2.1 - 5.0	175	22 %	11 - 50	366	46 %
201 - 300	235	30 %	5.1 - 10.0	198	25 %	51 - 100	76	10 %
301 - 400	343	43 %	10.1 - 20.0	143	18 %	101 - 200	30	4 %
401 ...	91	12 %	20.1 ...	16	2 %	201 ...	15	2 %
Avg: 290	for	790 Samples	Avg: 5.6	for	790 Samples	Avg: 30.8	for	790 Samples

Saturation Index			Coliform Bacteria			Atrazine Screen* (ppb)		
... -3.0	7	<1 %	Bact Samples	790		None Detected	330	57 %
-2.9 - -2.0	5	<1 %	Pos Bacteria	126	16 %	... 0.3	141	24 %
-1.9 - -1.0	39	5 %				0.4 - 1.0	84	14 %
-0.9 - 0.0	40	5 %	E. coli Bacteria			1.1 - 2.0	20	3 %
0.1 - 1.0	698	88 %	E. coli Samples	126		2.1 - 3.0	4	<1 %
1.1 ...	1	<1 %	Pos E. coli	4	3 %	3.1 ...	4	<1 %
Avg: 0.3	for	790 Samples				Avg: 0.2	for	583 Samples

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

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Arsenic (mg/L)

None Detected	450	73 %
... 0.010	148	24 %
0.011 - 0.050	19	3 %
0.051 - 0.100	0	0 %
0.101 - 0.150	0	0 %
0.151 ...	0	0 %
Avg: <0.005 for	617 Samples	

Calcium (mg/L)

None Detected	19	3 %
... 25	113	18 %
26 - 50	97	16 %
51 - 75	264	43 %
76 - 100	110	18 %
101 ...	14	2 %
Avg: 51 for	617 Samples	

Copper (mg/L)

None Detected	28	5 %
... 0.130	344	56 %
0.131 - 0.500	193	31 %
0.501 - 0.900	28	5 %
0.901 - 1.300	11	2 %
1.301 ...	13	2 %
Avg: 0.199 for	617 Samples	

Iron (mg/L)

None Detected	371	60 %
... 0.300	212	34 %
0.301 - 1.000	14	2 %
1.001 - 2.000	12	2 %
2.001 - 5.000	7	1 %
5.001 ...	1	<1 %
Avg: 0.106 for	617 Samples	

Potassium (mg/L)

None Detected	23	4 %
... 20	584	95 %
21 - 40	6	<1 %
41 - 60	0	0 %
61 - 80	2	<1 %
81 ...	2	<1 %
Avg: 2.3 for	617 Samples	

Magnesium (mg/L)

None Detected	35	6 %
... 20	126	20 %
21 - 40	317	51 %
41 - 60	134	22 %
61 - 80	4	<1 %
81 ...	1	<1 %
Avg: 28.3 for	617 Samples	

Manganese (mg/L)

None Detected	359	58 %
... 0.050	215	35 %
0.051 - 0.300	37	6 %
0.301 - 0.500	4	<1 %
0.501 - 1.000	1	<1 %
1.001 ...	1	<1 %
Avg: 0.019 for	617 Samples	

Sodium (mg/L)

None Detected	1	<1 %
... 25	394	64 %
26 - 50	53	9 %
51 - 75	22	4 %
76 - 100	19	3 %
101 ...	128	21 %
Avg: 46.2 for	617 Samples	

Lead (mg/L)

None Detected	512	83 %
... 0.015	78	13 %
0.016 - 0.025	9	1 %
0.026 - 0.050	9	1 %
0.051 - 0.100	6	<1 %
0.101 ...	3	<1 %
Avg: 0.004 for	617 Samples	

Sulfate (mg/L)

None Detected	6	<1 %
...25	523	85 %
26 - 50	72	12 %
51 - 75	13	2 %
76 - 100	3	<1 %
101 ...	0	0 %
Avg: 17.3 for	617 Samples	

Zinc (mg/L)

None Detected	27	4 %
... 0.100	331	54 %
0.101 - 0.500	170	28 %
0.501 - 1.000	31	5 %
1.001 - 5.000	54	9 %
5.001 ...	4	<1 %
Avg: 0.327 for	617 Samples	