

Summary

UWEX Private Well Project

Calumet County

March 2019

5/1/2019

7:20 PM

Total Number Samples: 191

Sample Date: 3/25/2019

Reason for Test	Last Test (yr)	Problems	Treatment Sys	Depth (ft) Well	Casing	Water	Well Diam (in)						
Curious	56%	Never	4%	Color	7%	Softener	68%	... 25	0%	0%	8%	... 3	1%
Problems	5%	< 1	13%	Taste	6%	R/O	15%	26-50	2%	17%	5%	4 - 9	52%
Regular	32%	1 - 2	21%	Odor	12%	Carb Filt	5%	51-100	13%	15%	8%	10 - 18	0%
Required	0%	2 - 5	15%	Corr	2%	Neutral	0%	101-150	12%	5%	2%	18 +	0%
Bac Retest	0%	5 - 10	9%	Health	<1%	Part Filt	15%	151-200	11%	2%	1%		
Disinfect	<1%	10 +	9%	Other	6%	Iron Filt	3%	201 ...	12%	0%	3%		
Infant...	1%	Unk	8%	None	41%	Other	2%						
Other	5%												

pH

... 5.00	1	<1%
5.01 - 6.00	0	0%
6.01 - 7.00	2	1%
7.01 - 8.00	140	73%
8.01 - 9.00	48	25%
9.01 ...	0	0%
Avg: 5	for	191 Samples

Conductivity (umhos/cm)

... 100	0	0%
101 - 250	2	1%
251 - 500	14	7%
501 - 750	53	28%
751 - 1000	69	36%
1001 ...	53	28%
Avg: 988	for	191 Samples

Alkalinity (mg/L CaCO3)

... 50	3	2%
51 - 100	0	0%
101 - 200	23	12%
201 - 300	37	19%
301 - 400	104	54%
401 ...	24	13%
Avg: 310	for	191 Samples

Total Hardness (mg/L CaCO3)

... 50	11	6%
51 - 100	3	2%
101 - 200	14	7%
201 - 300	7	4%
301 - 400	55	29%
401 ...	101	53%
Avg: 426	for	191 Samples

Nitrate (mg/L as N)

None Detected	57	30%
... 2.0	45	24%
2.1 - 5.0	24	13%
5.1 - 10.0	37	19%
10.1 - 20.0	21	11%
20.1 ...	7	4%
Avg: 4.2	for	191 Samples

Chloride (mg/L)

None Detected	1	<1%
... 10	45	24%
11 - 50	99	52%
51 - 100	26	14%
101 - 200	13	7%
201 ...	7	4%
Avg: 47.8	for	191 Samples

Saturation Index

... -3.0	2	1%
-2.9 - -2.0	1	<1%
-1.9 - -1.0	7	4%
-0.9 - 0.0	4	2%
0.1 - 1.0	174	91%
1.1 ...	3	2%
Avg: 0.4	for	191 Samples

Coliform Bacteria

Bact Samples	95	
Pos Bacteria	10	11%
E. coli Bacteria		
E. coli Samples	10	
Pos E. coli	2	20%

Atrazine Screen* (ppb)

None Detected	32	78%
... 0.3	7	17%
0.4 - 1.0	2	5%
1.1 - 2.0	0	0%
2.1 - 3.0	0	0%
3.1 ...	0	0%
Avg: <0.1	for	41 Samples

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

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Arsenic (mg/L)

None Detected	12	19 %
... 0.010	42	66 %
0.011 - 0.050	10	16 %
0.051 - 0.100	0	0 %
0.101 - 0.150	0	0 %
0.151 ...	0	0 %
Avg: 0.007 for	64	Samples

Calcium (mg/L)

None Detected	2	3 %
... 25	33	52 %
26 - 50	6	9 %
51 - 75	7	11 %
76 - 100	9	14 %
101 ...	7	11 %
Avg: 50.8 for	64	Samples

Copper (mg/L)

None Detected	14	22 %
... 0.130	28	44 %
0.131 - 0.500	20	31 %
0.501 - 0.900	1	2 %
0.901 - 1.300	0	0 %
1.301 ...	1	2 %
Avg: 0.133 for	64	Samples

Iron (mg/L)

None Detected	24	38 %
... 0.300	32	50 %
0.301 - 1.000	4	6 %
1.001 - 2.000	3	5 %
2.001 - 5.000	0	0 %
5.001 ...	1	2 %
Avg: 0.227 for	64	Samples

Potassium (mg/L)

None Detected	1	2 %
... 20	60	94 %
21 - 40	2	3 %
41 - 60	1	2 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 4.6 for	64	Samples

Magnesium (mg/L)

None Detected	5	8 %
... 20	24	38 %
21 - 40	8	12 %
41 - 60	22	34 %
61 - 80	3	5 %
81 ...	2	3 %
Avg: 28.1 for	64	Samples

Manganese (mg/L)

None Detected	27	42 %
... 0.050	34	53 %
0.051 - 0.300	2	3 %
0.301 - 0.500	1	2 %
0.501 - 1.000	0	0 %
1.001 ...	0	0 %
Avg: 0.017 for	64	Samples

Sodium (mg/L)

None Detected	0	0 %
... 25	16	25 %
26 - 50	17	27 %
51 - 75	0	0 %
76 - 100	1	2 %
101 ...	30	47 %
Avg: 168.8 for	64	Samples

Lead (mg/L)

None Detected	61	95 %
... 0.015	2	3 %
0.016 - 0.025	0	0 %
0.026 - 0.050	1	2 %
0.051 - 0.100	0	0 %
0.101 ...	0	0 %
Avg: <0.002 for	64	Samples

Sulfate (mg/L)

None Detected	2	3 %
...25	15	23 %
26 - 50	15	23 %
51 - 75	9	14 %
76 - 100	5	8 %
101 ...	18	28 %
Avg: 234.6 for	64	Samples

Zinc (mg/L)

None Detected	11	17 %
... 0.100	34	53 %
0.101 - 0.500	10	16 %
0.501 - 1.000	3	5 %
1.001 - 5.000	4	6 %
5.001 ...	2	3 %
Avg: 0.535 for	64	Samples

