

## Summary

UWEX Private Well Project

## Green County - 2023

Decatur - Spring Grove - Sylvester

5/23/2023

7:34 PM

Total Number Samples: 56

Sample Dates: 3/26/2023 to 3/27/2023

Reason for Test		Last Test (yr)		Problems		Treatment Sys		Depth (ft) Well Casing Water			Well Diam (in)		
Curious	88 %	Never	5 %	Color	7 %	Softener	80 %	... 25	2 %	0 %	0 %	... 3	7 %
Problems	11 %	< 1	0 %	Taste	2 %	R/O	2 %	26-50	0 %	0 %	5 %	4 - 9	46 %
Regular	16 %	1 - 2	9 %	Odor	4 %	Carb Filt	4 %	51-100	5 %	7 %	5 %	10 - 18	0 %
Required	0 %	2 - 5	21 %	Corr	2 %	Neutral	0 %	101-150	11 %	4 %	2 %	18 +	0 %
Bac Retest	0 %	5 - 10	16 %	Health	0 %	Part Filt	7 %	151-200	9 %	5 %	2 %		
Disinfect	0 %	10 +	16 %	Other	7 %	Iron Filt	5 %	201 ...	5 %	0 %	0 %		
Infant...	0 %	Unk	23 %	None	73 %	Other	2 %						
Other	5 %												

### pH

... 5.00	0	0 %
5.01 - 6.00	0	0 %
6.01 - 7.00	0	0 %
7.01 - 8.00	1	2 %
8.01 - 9.00	54	98 %
9.01 ...	0	0 %
Avg: 8.27	for	55 Samples

### Conductivity (umhos/cm)

... 100	0	0 %
101 - 250	0	0 %
251 - 500	6	11 %
501 - 750	36	65 %
751 - 1000	12	22 %
1001 ...	1	2 %
Avg: 655	for	55 Samples

### Alkalinity (mg/L CaCO3)

... 50	0	0 %
51 - 100	1	2 %
101 - 200	7	13 %
201 - 300	27	49 %
301 - 400	19	35 %
401 ...	1	2 %
Avg: 272	for	55 Samples

### Total Hardness (mg/L CaCO3)

... 50	6	11 %
51 - 100	0	0 %
101 - 200	4	7 %
201 - 300	8	15 %
301 - 400	28	51 %
401 ...	9	16 %
Avg: 297	for	55 Samples

### Nitrate (mg/L as N)

None Detected	5	9 %
... 2.0	3	5 %
2.1 - 5.0	19	35 %
5.1 - 10.0	21	38 %
10.1 - 20.0	7	13 %
20.1 ...	0	0 %
Avg: 5.8	for	55 Samples

### Chloride (mg/L)

None Detected	0	0 %
... 10	14	25 %
11 - 50	35	64 %
51 - 100	4	7 %
101 - 200	2	4 %
201 ...	0	0 %
Avg: 27.4	for	55 Samples

### Saturation Index

... -3.0	0	0 %
-2.9 - -2.0	0	0 %
-1.9 - -1.0	2	4 %
-0.9 - 0.0	3	5 %
0.1 - 1.0	45	82 %
1.1 ...	5	9 %
Avg: 0.7	for	55 Samples

### Coliform Bacteria

Bact Samples	55	
Pos Bacteria	6	11 %
<b>E. coli Bacteria</b>		
E. coli Samples	6	
Pos E. coli	0	0 %

### Atrazine Screen\* (ppb)

None Detected	24	59 %
... 0.3	14	34 %
0.4 - 1.0	3	7 %
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	31	74 %
... 0.010	11	26 %
0.011 - 0.050	0	0 %
0.051 - 0.100	0	0 %
0.101 - 0.150	0	0 %
0.151 ...	0	0 %
Avg: <0.005 for	42 Samples	

### Calcium (mg/L)

None Detected	0	0 %
... 25	9	21 %
26 - 50	7	17 %
51 - 75	13	31 %
76 - 100	12	29 %
101 ...	1	2 %
Avg: 53.3 for	42 Samples	

### Copper (mg/L)

None Detected	2	5 %
... 0.130	27	64 %
0.131 - 0.500	12	29 %
0.501 - 0.900	1	2 %
0.901 - 1.300	0	0 %
1.301 ...	0	0 %
Avg: 0.118 for	42 Samples	

### Iron (mg/L)

None Detected	26	62 %
... 0.300	14	33 %
0.301 - 1.000	0	0 %
1.001 - 2.000	1	2 %
2.001 - 5.000	1	2 %
5.001 ...	0	0 %
Avg: 0.127 for	42 Samples	

### Potassium (mg/L)

None Detected	0	0 %
... 20	42	100 %
21 - 40	0	0 %
41 - 60	0	0 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 2.3 for	42 Samples	

### Magnesium (mg/L)

None Detected	0	0 %
... 20	12	29 %
21 - 40	18	43 %
41 - 60	12	29 %
61 - 80	0	0 %
81 ...	0	0 %
Avg: 29.1 for	42 Samples	

### Manganese (mg/L)

None Detected	28	67 %
... 0.050	12	29 %
0.051 - 0.300	1	2 %
0.301 - 0.500	0	0 %
0.501 - 1.000	1	2 %
1.001 ...	0	0 %
Avg: 0.028 for	42 Samples	

### Sodium (mg/L)

None Detected	1	2 %
... 25	27	64 %
26 - 50	2	5 %
51 - 75	1	2 %
76 - 100	2	5 %
101 ...	9	21 %
Avg: 45.5 for	42 Samples	

### Lead (mg/L)

None Detected	37	88 %
... 0.015	3	7 %
0.016 - 0.025	0	0 %
0.026 - 0.050	1	2 %
0.051 - 0.100	0	0 %
0.101 ...	1	2 %
Avg: 0.004 for	42 Samples	

### Sulfate (mg/L)

None Detected	0	0 %
...25	34	81 %
26 - 50	8	19 %
51 - 75	0	0 %
76 - 100	0	0 %
101 ...	0	0 %
Avg: 19.6 for	42 Samples	

### Zinc (mg/L)

None Detected	1	2 %
... 0.100	31	74 %
0.101 - 0.500	7	17 %
0.501 - 1.000	1	2 %
1.001 - 5.000	1	2 %
5.001 ...	1	2 %
Avg: 0.499 for	42 Samples	