

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

The following information pertains to waters received, treated, and delivered by the Osage Water Treatment Plant.

Time Interval: 3/21 - 2/22 (12 months)

Each entry is an average of 12 numbers taken from 12 weekly analysis sheets. Normally one weekly analysis, which is most representative, is sent to City Hall each month. 52 weekly analyses are conducted each year.

All parameters given as parts per million (mg/L) except items 27, 28, 29 & 30.

PARAMETER	<u>RAW WATER</u> CRMWA SUPPLY	<u>FILTERED WATER</u> TAKEN THROUGH PLANT TREATMENT PROCESS	<u>WELL WATER</u> CARSON COUNTY / POTTER WELL	<u>FINISHED WATER</u> BLENDED DRINKING WATER WHICH CONTAINS FILTERED & WELL WATERS
1) Total Hardness (as CaCO ₃)	249	248	169	240
2) Calcium (as Ca)	52.5744	52.3299	36.1160	50.7731
3) Magnesium (as Mg)	28.6344	28.5666	19.0245	27.5682
4) Aluminum (as Al)	0.0000	0.1280	0.0000	0.1225
5) Iron (as Fe)	0.0031	0.0019	0.0029	0.0023
6) Sodium (as Na)	199.5843	198.7588	21.5283	178.8939
7) Potassium (as K)	7.5526	7.5305	4.6227	7.2881
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0306	0.0019	0.0008	0.0008
10) Zinc (as Zn)	0.0381	0.0389	0.0324	0.0381
11) Lead (as Pb)	0.0000	0.0000	0.0002	0.0000
12) Fluoride (as F)	0.659	0.657	1.213	0.699
13) Chloride (as Cl)	273.721	275.001	7.250	246.059
14) Bromide (as Br)	0.152	0.011	0.010	0.005
15) Nitrate (as N)	1.179	1.076	1.448	1.126
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	131.577	133.859	13.013	118.745
18) Ammonia (as NH ₃ -N)	0.00	0.00	0.00	0.00
19) Silica (as SiO ₂)	21.8	20.2	28.2	21.4
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	836	835	248	770
22) Total Alkalinity (as CaCO ₃)	190.1	185.8	189.5	185.6
23) P. Alkalinity (as CaCO ₃)	0.2	0.0	0.0	0.0
24) Dissolved Oxygen	6.38	9.72	8.25	8.88
25) Total Carbon (as C)	44.749	43.780	43.861	43.970
26) Total Organic Carbon (as C)	0.659	0.832	0.206	0.817
27) Specific Conductance (micromhos)	1348	1386	393	1263
28) Turbidity (as NTU)	0.31	0.10	0.09	0.08
29) pH	8.13	7.94	7.68	7.79
30) Temperature °F	65	66	65	66

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PARAMETER	<u>RAW WATER</u> CRMWA SUPPLY	<u>FILTERED WATER</u> TAKEN THROUGH PLANT TREATMENT PROCESS	<u>WELL WATER</u> CARSON COUNTY / POTTER WELL	<u>FINISHED WATER</u> BLENDED DRINKING WATER WHICH CONTAINS FILTERED & WELL WATERS
1) Total Hardness (as CaCO ₃)	253	254	166	244
2) Calcium (as Ca)	53.3661	53.3702	36.6012	51.5659
3) Magnesium (as Mg)	29.1798	29.2866	18.1447	27.9362
4) Aluminum (as Al)	0.0004	0.1306	0.0004	0.1326
5) Iron (as Fe)	0.0034	0.0019	0.0022	0.0019
6) Sodium (as Na)	213.7250	213.8755	20.7815	190.3022
7) Potassium (as K)	7.6779	7.7120	4.3926	7.3757
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0266	0.0022	0.0022	0.0009
10) Zinc (as Zn)	0.0349	0.0349	0.0291	0.0345
11) Lead (as Pb)	0.0001	0.0000	0.0000	0.0000
12) Fluoride (as F)	0.673	0.679	1.013	0.711
13) Chloride (as Cl)	291.057	291.371	7.456	259.137
14) Bromide (as Br)	0.154	0.008	0.011	0.003
15) Nitrate (as N)	1.176	1.090	1.549	1.155
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	138.456	140.962	12.454	124.673
18) Ammonia (as NH ₃ -N)	0.00	0.00	0.00	0.00
19) Silica (as SiO ₂)	21.9	19.5	26.3	20.3
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	877	874	235	793
22) Total Alkalinity (as CaCO ₃)	190.0	185.0	183.9	184.3
23) P. Alkalinity (as CaCO ₃)	0.0	0.0	0.0	0.0
24) Dissolved Oxygen	7.92	9.21	8.73	9.17
25) Total Carbon (as C)	44.667	43.586	42.102	43.492
26) Total Organic Carbon (as C)	0.514	0.598	0.277	0.591
27) Specific Conductance (micromhos)	1488	1468	382	1325
28) Turbidity (as NTU)	0.38	0.08	0.07	0.07
29) pH	8.11	7.86	7.67	7.76
30) Temperature °F	64	65	64	64

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

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PARAMETER	<u>RAW WATER</u> CRMWA SUPPLY	<u>FILTERED WATER</u> TAKEN THROUGH PLANT TREATMENT PROCESS	<u>WELL WATER</u> CARSON COUNTY / POTTER WELL	<u>FINISHED WATER</u> BLENDED DRINKING WATER WHICH CONTAINS FILTERED & WELL WATERS
1) Total Hardness (as CaCO ₃)	258	256	171	238
2) Calcium (as Ca)	54.5322	54.1879	37.1041	50.5349
3) Magnesium (as Mg)	29.5418	29.3478	19.1074	27.1019
4) Aluminum (as Al)	0.0010	0.1095	0.0000	0.1095
5) Iron (as Fe)	0.0025	0.0011	0.0010	0.0007
6) Sodium (as Na)	219.9969	217.4857	21.9448	174.2386
7) Potassium (as K)	7.7526	7.6815	4.4561	7.0846
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0241	0.0031	0.0001	0.0004
10) Zinc (as Zn)	0.0280	0.0283	0.0237	0.0273
11) Lead (as Pb)	0.0000	0.0000	0.0000	0.0000
12) Fluoride (as F)	0.637	0.636	1.007	0.711
13) Chloride (as Cl)	296.969	296.189	7.448	233.759
14) Bromide (as Br)	0.143	0.000	0.001	0.000
15) Nitrate (as N)	1.056	0.977	1.467	1.108
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	142.400	145.084	13.211	112.619
18) Ammonia (as NH ₃ -N)	0.00	0.00	0.00	0.00
19) Silica (as SiO ₂)	21.5	19.3	27.1	21.2
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	892	885	233	721
22) Total Alkalinity (as CaCO ₃)	192.8	185.5	184.7	185.1
23) P. Alkalinity (as CaCO ₃)	0.2	0.0	0.0	0.0
24) Dissolved Oxygen	6.52	8.37	8.43	8.36
25) Total Carbon (as C)	45.5702	44.5507	43.5758	44.1585
26) Total Organic Carbon (as C)	0.6166	0.6715	0.1666	0.6377
27) Specific Conductance (micromhos)	1400	1404	358	1159
28) Turbidity (as NTU)	0.50	0.08	0.06	0.06
29) pH	8.16	7.86	7.62	7.73
30) Temperature °F	65	67	66	66