

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

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

Time Interval: 03/16 - 02/17 (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)	261	259	182	247
2) Calcium (as Ca)	56.5313	56.0228	37.9590	53.2610
3) Magnesium (as Mg)	29.0099	28.7885	21.0519	27.5784
4) Aluminum (as Al)	0.0011	0.1692	0.0004	0.1013
5) Iron (as Fe)	0.0023	0.0035	0.0011	0.0004
6) Sodium (as Na)	179.4971	176.1753	25.7593	154.0920
7) Potassium (as K)	7.2282	7.1419	5.1719	6.8493
8) Manganese (as Mn)	0.0001	0.0001	0.0000	0.0000
9) Copper (as Cu)	0.0524	0.0063	0.0011	0.0005
10) Zinc (as Zn)	0.0196	0.0131	0.0124	0.0107
11) Lead (as Pb)	0.0005	0.0005	0.0001	0.0003
12) Fluoride (as F)	0.620	0.641	1.116	0.696
13) Chloride (as Cl)	246.306	244.185	7.523	207.973
14) Bromide (as Br)	0.121	0.021	0.013	0.005
15) Nitrate (as N)	1.344	1.179	1.558	1.293
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	108.548	109.494	13.543	92.732
18) Ammonia (as NH ₃ -N)	0.00	0.00	0.00	0.00
19) Silica (as SiO ₂)	22.5	20.8	28.6	22.0
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	770	764	261	681
22) Total Alkalinity (as CaCO ₃)	188.1	182.5	198.3	177.6
23) P. Alkalinity (as CaCO ₃)	0.9	0.0	0.0	0.0
24) Dissolved Oxygen	7.60	9.39	7.78	8.74
25) Total Carbon (as C)	45.861	45.089	45.824	44.377
26) Total Organic Carbon (as C)	1.154	1.372	0.295	1.193
27) Specific Conductance (micromhos)	1335	1321	428	1177
28) Turbidity (as NTU)	0.36	0.13	0.07	0.07
29) pH	8.24	7.96	7.65	7.83
30) Temperature °F	65	66	66	66

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

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

Time Interval: 03/18 - 02/19 (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)	258	256	173	248
2) Calcium (as Ca)	55.7040	54.9996	36.9543	53.0919
3) Magnesium (as Mg)	28.9206	28.8141	19.6635	27.8854
4) Aluminum (as Al)	0.0009	0.1433	0.0001	0.1326
5) Iron (as Fe)	0.0041	0.0016	0.0019	0.0017
6) Sodium (as Na)	201.2996	198.4666	22.5852	179.9073
7) Potassium (as K)	7.5085	7.4433	4.5247	7.2391
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0455	0.0014	0.0023	0.0004
10) Zinc (as Zn)	0.0151	0.0153	0.0169	0.0146
11) Lead (as Pb)	0.0009	0.0010	0.0002	0.0011
12) Fluoride (as F)	0.582	0.599	1.064	0.635
13) Chloride (as Cl)	260.570	253.325	7.302	232.546
14) Bromide (as Br)	0.109	0.008	0.018	0.004
15) Nitrate (as N)	1.182	1.215	1.673	1.216
16) Phosphorus (as P)	0.145	0.000	0.000	0.000
17) Sulfate (as SO ₄)	124.485	122.166	12.475	111.354
18) Ammonia (as NH ₃ -N)	0.00	0.00	0.00	0.00
19) Silica (as SiO ₂)	21.3	20.3	28.1	21.1
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	833	817	242	755
22) Total Alkalinity (as CaCO ₃)	192.2	187.6	187.3	186.7
23) P. Alkalinity (as CaCO ₃)	0.7	0.0	0.0	0.0
24) Dissolved Oxygen	7.75	10.05	8.21	9.30
25) Total Carbon (as C)	45.780	45.035	42.713	43.860
26) Total Organic Carbon (as C)	1.533	1.607	0.191	1.512
27) Specific Conductance (micromhos)	1454	1436	416	1323
28) Turbidity (as NTU)	0.36	0.09	0.06	0.08
29) pH	8.26	7.98	7.70	7.83
30) Temperature °F	63	64	64	66

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

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

Time Interval: 3/19 - 2/20 (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)	250	249	175	238
2) Calcium (as Ca)	52.6174	52.5034	36.9896	50.2945
3) Magnesium (as Mg)	28.6659	28.6183	20.0038	27.3453
4) Aluminum (as Al)	0.0017	0.1426	0.0000	0.1314
5) Iron (as Fe)	0.0042	0.0021	0.0016	0.0015
6) Sodium (as Na)	193.8243	191.9428	24.3823	168.7695
7) Potassium (as K)	7.5811	7.5624	4.5524	7.1771
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0467	0.0068	0.0012	0.0004
10) Zinc (as Zn)	0.0142	0.0157	0.0135	0.0137
11) Lead (as Pb)	0.0004	0.0003	0.0004	0.0003
12) Fluoride (as F)	0.580	0.599	1.074	0.649
13) Chloride (as Cl)	261.192	260.169	6.884	225.072
14) Bromide (as Br)	0.116	0.004	0.017	0.002
15) Nitrate (as N)	0.998	0.973	1.488	1.063
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	124.597	125.119	13.325	107.795
18) Ammonia (as NH ₃ -N)	0.01	0.00	0.00	0.00
19) Silica (as SiO ₂)	20.9	19.4	28.6	20.6
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	808	806	259	723
22) Total Alkalinity (as CaCO ₃)	188.0	182.1	194.3	182.6
23) P. Alkalinity (as CaCO ₃)	0.5	0.0	0.0	0.0
24) Dissolved Oxygen	7.60	9.91	7.81	8.87
25) Total Carbon (as C)	44.080	43.050	43.623	42.847
26) Total Organic Carbon (as C)	1.374	1.573	0.086	1.386
27) Specific Conductance (micromhos)	1470	1457	444	1300
28) Turbidity (as NTU)	0.35	0.10	0.05	0.08
29) pH	8.22	7.95	7.65	7.82
30) Temperature °F	63	64	64	66

ENVIRONMENTAL LABORATORY CITY OF AMARILLO, TEXAS

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

Time Interval: 3-20 - 2-21 (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)	247	245	164	229
2) Calcium (as Ca)	50.8804	50.8491	34.7217	47.7363
3) Magnesium (as Mg)	28.4965	28.6158	18.9231	26.6287
4) Aluminum (as Al)	0.0007	0.1575	0.0000	0.1346
5) Iron (as Fe)	0.0027	0.0017	0.0018	0.0014
6) Sodium (as Na)	203.1417	203.4158	22.1467	168.3470
7) Potassium (as K)	7.4333	7.5016	4.5430	6.9620
8) Manganese (as Mn)	0.0000	0.0000	0.0000	0.0000
9) Copper (as Cu)	0.0278	0.0020	0.0009	0.0004
10) Zinc (as Zn)	0.0244	0.0243	0.0212	0.0235
11) Lead (as Pb)	0.0001	0.0001	0.0001	0.0001
12) Fluoride (as F)	0.611	0.617	1.119	0.681
13) Chloride (as Cl)	278.467	279.327	6.648	225.628
14) Bromide (as Br)	0.135	0.008	0.012	0.004
15) Nitrate (as N)	1.024	0.976	1.426	1.090
16) Phosphorus (as P)	0.000	0.000	0.000	0.000
17) Sulfate (as SO ₄)	135.947	138.564	12.587	110.992
18) Ammonia (as NH ₃ -N)	0.01	0.00	0.00	0.00
19) Silica (as SiO ₂)	21.1	19.5	27.5	21.3
20) Cyanide (as Cn)	0.00	0.00	0.00	0.00
21) Total Dissolved Solids	851	854	246	725
22) Total Alkalinity (as CaCO ₃)	186.3	181.2	187.8	180.7
23) P. Alkalinity (as CaCO ₃)	0.2	0.0	0.0	0.0
24) Dissolved Oxygen	7.80	10.56	8.71	9.73
25) Total Carbon (as C)	46.660	45.857	46.415	45.954
26) Total Organic Carbon (as C)	0.851	0.964	0.321	0.899
27) Specific Conductance (micromhos)	1424	1409	387	1193
28) Turbidity (as NTU)	0.26	0.44	0.06	0.10
29) pH	8.19	7.95	7.67	7.79
30) Temperature °F	65	65	66	66