

FOR BOARD OF PUBLIC WORKS
P O BOX 279
BEATRICE NE 68310

WATER ANALYSIS REPORT

	2006	2007	2008	2009	2010	2011
Date Received:	01-11-06	01-17-07	01-08-08	01-16-09	01-29-10	01-11-11
Report Date:	01-17-06	01-23-07	01-14-08	01-26-09	02-03-10	01-25-11
Lab Number:	1146013	1261195	1379018	1529009	1674897	1800496
	Reservoir	Reservoir	Reservoir	Reservoir	Reservoir	Reservoir
Conductivity	0.985 mmhos/cm	0.705 mmhos/cm	902 uS/cm	0.802mmhos/cm	0.824mmhos/cm	679 uS/cm
Total Hardness			249.0 mg/L	215.46 mg/L	272.0 mg/L	224.0 mg/L
Grain/U.S. Gallon	17.3	13.0	14.56	12.6	15.9	13.1
Calcium	89.7 ppm	68.4 mg/L	75.5 mg/L	66.6 ppm	83.9 ppm	67.8 mg/L
Magnesium	17.2 ppm	12.4 mg/L	14.7 mg/L	11.8 ppm	15.0 ppm	13.3 mg/L
Sodium	94.1 ppm	65.2 mg/L	109.0 mg/L	90.8 ppm	84.1 ppm	62.2 mg/L
Sodium absorption ration	2.4	1.90	3.0	2.7	2.2	1.8
Potassium	4.8 mg/L	4.1 mg/L	3.8 mg/L	3.4 mg/L	Not tested	4.2 mg/L
Iron	N.D.	N.D.	N.D. mg/L	N.D.	0.07mg/L	0.01mg/L
Manganese	N.D.	N.D.	N.D. mg/L	N.D.	N.D.	N.D.
Carbonate	0.77 mg/L	1.23 mg/L	3.60 mg/L	.87 mg/L	1.04mg/L	0.20mg/L
Bicarbonate	243.0 ppm	207.0 mg/L	236.0 mg/L	232.0 mg/L	215.0 mg/L	203.0 mg/L
Chloride	131.0 ppm	83.0 ppm	98.0 mg/L	87.0 ppm	94.0 ppm	61.0 mg/L
Sulfate	48.0 ppm	42.0 ppm	41.0 mg/L	41.0 ppm	44.0 ppm	41.0 mg/L
Fluoride	0.8 ppm	0.2 ppm	0.2 mg/L	.3 ppm	.2 ppm	.2 mg/L
Nitrate Nitrogen	3.3 ppm	7.7 ppm	3.3 mg/L	3.9 ppm	5.5 ppm	5.3 mg/L
pH	7.53 ppm	7.80	8.21 S.U.	7.60	7.71	7.02 S.U.
Total Dissolved Solids	640.0 ppm	458.0 ppm	516.0 mg/L	521.0 ppm	536.0 ppm	352 mg/L
Total Suspended Solids	N.D.	N.D.	N.D. mg/L	N.D.	N.D.	N.D.
Total Alkalinity	244.0 mg	208.0 mg	240.0 CaCO3/L	233.0 mgCaCo3/L	216.0 mgCaCo3/L	203.0 mgCaCo3/L
Phosphorus	0.2	0.49 mg/L	0.3 mg/L	.3 mg/L	Not tested	0.2 mg/L
Zinc	N.D.	N.D.	N.D. mg/L	N.D.	0.03mg/L	N.D. mg/L
Boron	0.06 mg/L	0.16 mg/L	0.09 mg/L	.08 mg/L	N.D.mg/L	0.07 mg/L
Chromium	N.D.	N.D.	N.D. mg/L	N.D.	N.D.	N.D. mg/L
Lead	N.D.	N.D.	0.0010 mg/L	N.D.	N.D.	0.0012 mg/L
Copper	0.14	N.D.	0.15 mg/L	.09 mg/L	Not tested	0.11 mg/L
Nitrite Nitrogen	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Note:
mg/L = parts per million
ug/L = parts per billion
< = less than
RL = Reporting Limit
N.D. = Not Detected