Isanti, MN WTP Test Results Report

June-11

Date	Well #1			Well #2			Well #3			Plant Inf. Flow			Plant Eff. Flow					Brine			Distribution Samples						% Removal	
																		Hardness				Free	Total					
	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	pH	Mn (mg/l)	Fe (mg/l)	pH	PO_4 (mg/l)	Fl_2 (mg/l)	Mg (mg/l)	$CaCo_3$ (mg/l)	$CaCo_3$ (g/Gal)	Fl_2 (mg/l)	Cl_2 (mg/l)	Cl_2 (mg/l)	PO_4 (mg/l)	Fe (mg/l)	Mn (mg/l)	Mn (mg/l)	Fe (mg/l)
1-Jun-11																					1.20	0.69	0.77		0.01	0.016		
																					1.20	1.07	1.23		0.00	0.023		
3-Jun-11																					1.20	0.96	1.14		0.05	0.023		
4-Jun-11																												
5-Jun-11																												
6-Jun-11																					1.20	1.05	1.13		0.00	0.016		
7-Jun-11			0.30						0.30												1.20	1.33	1.40		0.00	0.023		
8-Jun-11																					1.10	0.45	0.54		0.00	0.019		
9-Jun-11																					1.20	1.00	1.14		0.02	0.031		
10-Jun-11	0.697	0.58	0.40				0.210	0.25	0.30												1.30	0.91	1.03		0.00	0.024		
11-Jun-11																					0.90	0.24	0.36		0.00	0.004		
12-Jun-11																												
13-Jun-11																					1.10	0.75	1.24		0.00	0.009		
14-Jun-11																					1.00	1.21	1.33		0.02	0.023		
15-Jun-11																					1.10	0.38	0.44		0.09	0.033		
16-Jun-11																					1.10	1.36	1.47		0.01	0.015		
17-Jun-11																					1.20	0.89	0.99		0.00	0.022		
18-Jun-11																												
19-Jun-11																												
20-Jun-11																					1.10	1.11	1.34		0.01	0.021		
21-Jun-11																					1.20	0.46	0.58		0.01	0.021		
22-Jun-11																					0.90	1.01	1.10		0.00	0.020		
23-Jun-11																					1.10	0.87	1.01		0.01	0.018		
24-Jun-11																												
25-Jun-11																												
26-Jun-11																												
27-Jun-11																		2.35	1.05	0.2	0.90	0.30	0.41		0.09	0.023		
28-Jun-11																					1.20	1.17	1.37		0.01	0.017		
29-Jun-11																					1.00	0.94	1.17		0.00	0.030		
30-Jun-11																												
Total	0.697	0.58	0.70	0.000	0.00	0.00	0.210	0.25	0.60	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	2.35	1.05	0.20	23.40	18.15	21.19	0.00	0.33	0.431	0.0	0.0
Minimum	0.697	0.58	0.30	0.000	0.00	0.00	0.210	0.25	0.30	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	2.35	1.05	0.20	0.90	0.24	0.36	0.00	0.00	0.004	0.0	0.0
Maximum	0.697	0.58	0.40	0.000	0.00	0.00	0.210	0.25	0.30	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	2.35	1.05	0.20	1.30	1.36	1.47	0.00	0.09	0.033	0.0	0.0
Average	0.697	0.58	0.35	0.000	0.00	0.00	0.210	0.25	0.30	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	2.35	1.05	0.20	1.11	0.86	1.01	0.00	0.03	0.021	0.0	0.0

Isanti, MN WTP Test Results Report

July-11

Date	Well #1			Well #2			Well #3			Plant Inf. Flow			Plant Eff. Flow					Brine			Distribution Samples						% Removal	
																		Hardness				Free	Total					
	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	Fl_2 (mg/l)	Mn (mg/l)	Fe (mg/l)	pH	Mn (mg/l)	Fe (mg/l)	pH	PO_4 (mg/l)	Fl_2 (mg/l)	Mg (mg/l)	$CaCo_3$ (g/Gal)		Fl_2 (mg/l)	Cl_2 (mg/l)	Cl_2 (mg/l)	PO_4 (mg/l)	Fe (mg/l)	Mn (mg/l)	Mn (mg/l)	Fe (mg/l)
1-Jul-11																					1.20	1.01	1.21		0.01	0.016		
2-Jul-11																												
3-Jul-11																												
4-Jul-11																												
5-Jul-11																					1.20	0.90	1.05		0.01	0.017		
6-Jul-11																					1.30	1.11	1.33		0.03	0.013		
7-Jul-11																												
8-Jul-11																												
9-Jul-11																												
10-Jul-11																												
11-Jul-11																					1.20	0.80	0.96		0.00	0.012		
12-Jul-11																					1.20	1.13	1.34		0.02	0.014		
13-Jul-11																					1.20	0.72	0.93		0.00	0.021		
14-Jul-11			0.30			0.20															1.20	0.57	0.73		0.07	0.029		
15-Jul-11																					1.20	0.12	0.37		0.00	0.023		
16-Jul-11																												
17-Jul-11																												
18-Jul-11																					1.20	0.35	0.43		0.01	0.028		
19-Jul-11																					1.40	0.63	0.69		0.01	0.019		
20-Jul-11																					1.10	0.38	0.44		0.04	0.016		
21-Jul-11																					1.30	0.53	0.72		0.00	0.018		
22-Jul-11																												
23-Jul-11																												
24-Jul-11																												
25-Jul-11																					1.20	0.44	0.58		0.00	0.006		
26-Jul-11																					1.30	0.73	0.90		0.00	0.019		
27-Jul-11																					1.10	0.50	0.67		0.01	0.025		
28-Jul-11																					1.00	0.29	0.41		0.03	0.040		
29-Jul-11																					1.10	0.39	0.53		0.01	0.029		
30-Jul-11																												
31-Jul-11																												
Total	0.000	0.00	0.30	0.000	0.00	0.20	0.000	0.00	0.00	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	0.00	0.00	0.00	20.40	10.60	13.29	0.00	0.25	0.345	0.0	0.0
Minimum	0.000	0.00	0.30	0.000	0.00	0.20	0.000	0.00	0.00	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	0.00	0.00	0.00	1.00	0.12	0.37	0.00	0.00	0.006	0.0	0.0
Maximum	0.000	0.00	0.30	0.000	0.00	0.20	0.000	0.00	0.00	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	0.00	0.00	0.00	1.40	1.13	1.34	0.00	0.07	0.040	0.0	0.0
Average	0.000	0.00	0.30	0.000	0.00	0.20	0.000	0.00	0.00	0.000	0.00	0.0	0.000	0.00	0.0	0.00	0.00	0.00	0.00	0.00	1.20	0.62	0.78	0.00	0.02	0.020	0.0	0.0