

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		NE Community Center, City monitoring well				Trinity School, Adams & Carlisle, City monitoring well				Denver & Marietta, City monitoring well					
WQMP Well ID		5304G01				5307M01				5308H01					
SampleID/Comment		5304G01	5304GO1	5304GO1	5304GO1	5307H01	5307MO1	5307MO1	5307M01	5308H01	5308HO1	5308HO1	5308H01		
Quarter		1	2	3	4	1	2	3	4	1	2	3	4		
Sample Date		2/12/2008	5/15/2008	8/14/2008	11/6/2008	2/12/2008	5/14/2008	8/12/2008	11/5/2008	2/12/2008	5/15/2008	8/14/2008	11/5/2008		
Static Water Level (ft)		178.75	173.54	178.82	179.03	134.64	128.11	138.29	138.80	84.13	78.86	85.51	84.32		
Average Static Water Level (ft)		177.56	174.29	179.69	179.36	135.02	129.07	141.10	139.86	82.88	80.07	86.54	84.71		
Sample Depth (ft)		182	186	182	182	148	148	148	148.5	86	86	86.5	86		
Conductivity (µS/cm)		325.00	260.00	271.00	311.00	266.00	258.00	238.00	265.00	234.00	213.00	193.00	244.00		
Water Temperature (C°)		12.60	14.50	14.80	10.70	12.80	14.70	15.80	12.77	12.20	13.30	13.90	13.22		
pH		7.86	7.97	7.76	6.20	7.87	8.05	8.07	7.88	7.72	6.97	7.32	7.50		
Analytes	Washington Drinking Water Standards														
	MCL ¹	Trigger Level ²	Secondary												
Phosphorus	-	-	-	0.005 ^R	0.003	0.004	0.003	0.002 ^R	0.004	0.005	0.004	0.005 ^R	0.002	0.003	0.004
Ortho-Phosphate	-	-	-	0.004 ^R	0.002	0.002	0.002	0.002 ^R	0.003	0.002	0.002	0.004 ^R	<0.001	0.002	0.002
Nitrate+Nitrite	10	5	-	1.61	1.16	1.21	2.28	1.56	1.34	1.41	1.33	1.02	1.03	1.11	1.32
Arsenic	0.01	0.005	-	0.00268	0.00260	0.00373 ^J	0.00201	0.00240	0.00227	0.00395	0.00239	0.00238	0.00179	0.00261 ^J	0.00192
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	0.00116	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	0.00269	<0.00250	<0.00250	0.00264	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	0.149	0.114	0.216	<0.100	<0.100	0.116	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	6.53	3.41	3.17	6.86	4.72	5.48	5.18 ^J	6.76	3.32	4.57	4.30	5.75
Sodium	-	-	-	5.20	5.27	5.08	4.60	3.89	4.11	3.68	3.69	3.14	3.30	3.19	3.39
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	15.80	14.70	12.90	15.60	11.90	12.00	10.60	10.30	10.40	10.40	8.02	9.60
Potassium	-	-	-	2.09	2.24	1.86	1.98	1.95	2.05	1.77	1.71	1.84	1.87	1.61	1.65
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060 ^J	<0.060	<0.060	<0.060	<0.060 ^J
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	13.10	14.80	14.80	15.30	10.60	14.50	10.2 ^J	12.30	8.76	11.80	10.20	11.40
Calcium	-	-	-	35.70	32.70	30.10	35.80	35.10	33.60	30.60	29.40	29.40	28.50	22.10	26.90
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	141	121	129	139	116	115	124	119	101	94.1	81.2	109
TDS	-	-	500	150	140	140	180	130	140	150	140	110	110	95	140

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems.

Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

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Appendix B: Quarterly Results

Well Name		monitoring well at SCC						Hale's Ale Nested Site, east				Hale's Ale Nested Site, mid					
WQMP Well ID		5310Q01						5311J05				5311J07					
SampleID/Comment		5310Q01	5310Q01	5310Q01	5310Q01A	5310Q0	5310Q01A	5311J05	5311J05	5311J05	5311J05	5311J07	5311J07	5311J07	5311J07		
Quarter		1	2	3	3	4	4	1	2	3	4	1	2	3	4		
Sample Date		1/24/2008	5/14/2008	8/13/2008	8/13/2008	11/5/2008	11/5/2008	1/24/2008	5/14/2008	8/13/2008	11/5/2008	1/24/2008	5/14/2008	8/13/2008	11/5/2008		
Static Water Level (ft)		38.65	29.73	39.53		39.05		66.50	57.97	67.20	66.54	66.55	58.03	67.28	66.60		
Average Static Water Level (ft)		36.15	32.80	40.52		38.84		63.56	59.01	68.08	66.72	63.61	58.86	67.90	66.76		
Sample Depth (ft)		40	41	41		41		67.5	63	68	68	105	107	105	107		
Conductivity (µS/cm)		229.00	244.00	233.00		217.00		340.00	330.00	333.00	341.00	348.00	320.00	334.00	338.00		
Water Temperature (C°)		12.20	12.50	15.60		13.41		9.30	12.40	14.20	10.70	9.60	11.90	13.30	10.90		
pH		8.02	7.92	8.17		8.05		8.00	7.95	7.98	7.63	7.93	7.99	8.00	7.61		
Analytes	Washington Drinking Water Standards																
	MCL ¹	Trigger Level ²	Secondary														
Phosphorus	-	-	-	0.02 ^R	0.003	0.003	0.004	0.003	0.003	0.05 ^R	0.004	0.003	0.004	0.05 ^R	0.004	0.003	0.004
Ortho-Phosphate	-	-	-	0.004 ^R	0.003	0.002	0.002	0.002	0.001	0.005 ^R	0.002	0.003	0.004	0.004 ^R	0.002	0.002	0.003
Nitrate+Nitrite	10	5	-	0.94	1.31	1.19	1.20	0.93	0.93	1.43	1.70	1.99	1.63	1.47	1.47	1.98	1.60
Arsenic	0.01	0.005	-	0.00254	<0.00165	0.00349 ^J	0.00525^J	0.00253	0.00255	0.00258	0.00233	0.00351	0.00264	0.00262	0.00365	0.00351	0.00284
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00118
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	0.00269	<0.00250	<0.00250	<0.00250	<0.00250	
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	3.24	5.02	4.39	4.42	3.51	3.47	4.45	5.00	5.78	5.60	4.27	4.67	5.55	5.42
Sodium	-	-	-	2.60	3.19	3.73	3.68	2.91	2.85	3.86	4.31	4.57	3.97	3.75	4.15	4.56	4.00
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
Magnesium	-	-	-	9.29	12.10	10.10	10.10	8.55	8.31	17.20	18.80	17.60	15.90	17.20	18.70	18.50	16.30
Potassium	-	-	-	1.65	2.06	1.87	1.85	1.54	1.52	2.12	2.41	2.30	1.98	2.11	2.41	2.40	2.00
Iron	-	0.1	0.3	0.086	<0.060	0.653	0.495	0.698^J	0.460^J	<0.060	<0.060	<0.060	<0.060 ^J	<0.060	<0.060	<0.060	<0.060 ^J
Manganese	-	0.05	0.05	0.00696	0.01210	0.01880 ^J	0.02630 ^J	0.03560 ^J	0.02610 ^J	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	7.98	13.10	11.30	11.10	8.57	8.50	14.10	19.60	18.40	16.60	14.20	19.50	18.30	16.60
Calcium	-	-	-	27.50	33.40	29.50	29.10	24.10	23.60	38.60	39.70	39.50	34.60	37.80	39.30	40.40	34.90
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	100	108	116	119	104	104	149	149	171	159	149	148	171	159
TDS	-	-	500	170	140	140	140	120	120	180	180	200	190	190	170	190	190

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

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Appendix B: Quarterly Results

Well Name		Felts Field City monitoring well				Olive & Fiske monitoring well				Third & Havana Nested Site, east					
WQMP Well ID		5312C01				5315L01				5322A01					
SampleID/Comment		5312C01	5312CO1	5312CO1	5312C01	5315L01	5315LO1	5315LO1	5315L01	5322A01	5322AO1	5322AO1	5323A01		
Quarter		1	2	3	4	1	2	3	4	1	2	3	4		
Sample Date		1/24/2008	5/14/2008	8/13/2008	11/5/2008	1/24/2008	5/14/2008	8/13/2008	11/5/2008	1/24/2008	5/14/2008	8/13/2008	11/5/2008		
Static Water Level (ft)		62.64	55.39	62.26	62.28	68.21	60.93	69.06	68.59	50.78	43.41	51.53	51.03		
Average Static Water Level (ft)		60.95	56.68	63.68	62.83	66.75	62.60	70.01	68.81	48.20	44.25	52.17	51.31		
Sample Depth (ft)		68	68	68	68	69.5	68	70	70	51.5	47	52.5	52		
Conductivity (µS/cm)		250.00	229.00	193.00	217.00	290.00	269.00	253.00	235.00	298.00	286.00	273.00	273.00		
Water Temperature (C°)		10.70	14.80	16.30	11.72	9.70	13.50	14.30	12.79	10.50	13.70	14.80	12.76		
pH		8.20	8.09	8.23	7.93	7.67	7.97	7.94	7.85	7.86	7.88	7.88	7.66		
Analytes	Washington Drinking Water Standards														
	MCL ¹	Trigger Level ²	Secondary												
Phosphorus	-	-	-	0.04 ^R	0.013	0.014	0.014	0.03 ^R	0.003	0.003	0.003	0.06 ^R	0.008	0.007	0.006
Ortho-Phosphate	-	-	-	0.016 ^R	0.013	0.013	0.013	0.004 ^R	0.002	0.002	0.002	0.008 ^R	0.008	0.007	0.006
Nitrate+Nitrite	10	5	-	0.96	1.72	1.07	1.17	0.97	1.29	1.31	1.00	1.47	1.80	1.81	1.43
Arsenic	0.01	0.005	-	0.00573	0.00442	0.00812	0.00680	0.00210	<0.00165	0.00401	0.00213	0.00208	0.00223	0.00358	0.00256
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	0.00276	0.00108	<0.00100	0.00238	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	0.00417	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	0.00339
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	2.57	2.49	2.76	3.04	11.90	11.60	6.37	3.99	8.12	9.90	5.25	5.10
Sodium	-	-	-	3.86	3.99	3.66	3.44	3.42	3.92	3.69	3.27	5.02	6.14	4.61	4.18
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Magnesium	-	-	-	8.14	8.90	7.12	7.10	11.20	12.60	11.00	9.20	11.30	13.00	11.30	10.30
Potassium	-	-	-	1.62	1.89	1.71	1.36	1.83	2.22	2.07	1.61	1.98	2.46	2.09	1.81
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060 ^J	<0.060	<0.060	<0.060	<0.060 ^J	<0.060	<0.060	<0.060	<0.060 ^J
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	10.70	12.00	10.40	11.30	8.81	12.90	11.40	9.87	9.31	14.00	13.00	10.50
Calcium	-	-	-	31.30	32.50	26.20	25.40	33.60	35.70	32.20	26.10	34.60	38.40	34.90	30.70
Carbonate	-	-	-	<1	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	104	104	102	101	109	109	101	112	119	118	138	127
TDS	-	-	500	150	150	100	130	180	160	150	130	180	160	170	140

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

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Well Name		Third & Havana Nested Site, mid					Plantess Ferry Park monitoring well					monitoring well Frederick & Bowdish					
WQMP Well ID		5322A03					5404A01					5409C02					
SampleID/Comment		5322A03	5322A03	5322A03A duplicate	5322A03	5323A03	5404A01	5404A01A duplicate	5404A01	5404A01	5404A01	5409C02	5409C02	5409C02	5409C02		
Quarter		1	2	2	3	4	1	1	2	3	4	1	2	3	4		
Sample Date		1/24/2008	5/14/2008	5/14/2008	8/13/2008	11/5/2008	2/14/2008	2/14/2008	5/13/2008	8/12/2008	11/4/2008	2/14/2008	5/13/2008	8/12/2008	11/4/2008		
Static Water Level (ft)		50.72	43.35		51.46	50.98	48.57		45.45	48.92	48.70	93.05	86.61	90.66	91.53		
Average Static Water Level (ft)		48.24	44.22		52.09	51.24	47.93		44.71	49.98	49.27	91.09	87.39	92.81	92.79		
Sample Depth (ft)		90	90		90	90	110.5		109	110	109	94	87.5	92	92.5		
Conductivity (µS/cm)		301.00	271.00		270.00	279.00	334.00		316.00	313.00	314.00	308.00	285.00	264.00	297.00		
Water Temperature (C°)		10.80	13.60		14.60	12.78	12.40		13.60	14.30	13.10	10.00	10.90	12.20	10.40		
pH		8.03	7.98		8.04	7.72	6.87		6.85	6.81	6.97	7.43	7.49	7.15	7.25		
Analytes	Washington Drinking Water Standards																
	MCL ¹	Trigger Level ²	Secondary														
Phosphorus	-	-	-	0.04 ^R	0.007	0.007	0.007	0.007	0.12 ^R	0.1 ^R	0.131	0.132	0.310	0.007 ^R	0.003	0.005	0.008
Ortho-Phosphate	-	-	-	0.008 ^R	0.007	0.007	0.006	0.007	0.26 ^R	0.28 ^R	0.017	0.025	0.038	0.004 ^R	0.002	0.003	0.007
Nitrate+Nitrite	10	5	-	1.54	1.65	1.60	1.77	1.56	<0.02	<0.02	<0.02	<0.05	0.08	1.54	1.70	1.62	1.55
Arsenic	0.01	0.005	-	0.00259	0.00237	0.00177	0.00496	<0.00165	<0.00165	<0.00165	0.00167	0.00322	0.00470	0.00338	0.00508	0.00659	
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00120	<0.00020	<0.00020	<0.00020	<0.00020	0.00025	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00120	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.000236
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	0.294	0.291	0.401	0.372	0.411	<0.100	<0.100	0.116	<0.100
Chloride	-	250	250	7.12	7.74	7.76	5.61	5.54	1.82	1.67	1.95	1.89 ^J	1.80	2.62	3.24	2.94 ^J	3.78
Sodium	-	-	-	4.97	5.39	5.36	5.03	4.36	11.10	11.20	10.90	11.50	11.20	3.69	3.73	3.88	3.79
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	11.40	12.40	12.40	11.40	10.40	13.40	13.40	12.90	13.40	13.40	13.70	12.70	13.00	13.50
Potassium	-	-	-	1.99	2.27	2.27	2.03	1.80	5.34	5.36	5.08	5.43	5.34	1.92	1.89	2.08	1.93
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060 ^J	5.750	5.740	5.490	6.890	6.140	0.207	0.253	0.675	0.175
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.37000	0.36400	0.35600	0.39900	0.36900	0.01560	0.01220	0.03120	0.00692
Sulfate	-	-	250	9.38	13.00	12.90	11.90	10.80	19.90	19.90	27.60	20.2 ^J	23.30	10.60	15.10	10.6 ^J	12.80
Calcium	-	-	-	34.60	36.10	35.90	35.50	30.90	28.30	28.10	26.10	27.80	27.40	37.40	34.20	35.10	36.50
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	121	120	119	137	128	136	136	134	167	145	140	135	149	144
TDS	-	-	500	180	170	160	170	150	230	240	210	210	200	180	160	160	160

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Sullivan Park North, monitoring well		Sullivan Park South, monitoring well				Sullivan Road and Centennial Trail, monitoring well					
WQMP Well ID		5411R02		5411R03				5411R04					
SampleID/Comment		5411R02	5411R02	5411R03	5411R03	5411R03	5411R03	5411R04	5411R04	5411R04	5411R04		
Quarter		1	2	1	2	3	4	1	2	3	4		
Sample Date		2/14/2008	5/13/2008	2/14/2008	5/13/2008	8/12/2008	11/4/2008	2/14/2008	5/13/2008	8/12/2008	11/4/2008		
Static Water Level (ft)		34.69	24.03	33.86	22.83	34.27	33.82	55.66	46.99	55.19	55.11		
Average Static Water Level (ft)		31.19	26.14	30.89	25.13	33.21	33.66	53.28	48.52	55.05	55.36		
Sample Depth (ft)		35.5	26	35	27	35.5	35	56.5	48	56.5	56		
Conductivity (µS/cm)		242.00	136.00	243.00	69.00	233.00	239.00	256.00	69.00	212.00	253.00		
Water Temperature (C°)		10.10	12.30	9.80	10.70	14.00	10.20	11.00	10.30	13.80	10.90		
pH		7.98	8.02	7.99	8.18	8.04	7.49	7.95	8.29	7.99	7.72		
Analytes	Washington Drinking Water Standards												
	MCL ¹	Trigger Level ²	Secondary										
Phosphorus	-	-	-	0.002 ^R	0.006	0.002 ^R	0.008	0.006	0.004	0.002 ^R	0.005	0.006	0.005
Ortho-Phosphate	-	-	-	0.005 ^R	0.005	0.003 ^R	0.006	0.005	0.003	0.003 ^R	0.004	0.003	0.004
Nitrate+Nitrite	10	5	-	1.09	0.33	1.01	0.07	1.01	1.07	1.05	0.08	1.00	1.03
Arsenic	0.01	0.005	-	0.00169	0.00325	0.00202	0.00291	0.00371	0.00324	0.00181	0.00286	0.00204	0.00275
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	0.00470	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	0.115	<0.100	<0.100	<0.100	0.117	<0.100
Chloride	-	250	250	2.66	2.30	2.38	1.94	2.12 ^J	1.94	1.76	1.97	2.06 ^J	1.93
Sodium	-	-	-	2.72	2.03	2.69	1.57	3.10	2.72	2.65	1.79	2.64	2.64
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	12.10	6.26	12.30	2.91	12.40	12.30	13.00	2.79	10.40	13.00
Potassium	-	-	-	1.65	1.18	1.65	0.83	1.81	1.74	1.83	0.79	1.54	1.69
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	0.00142	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	10.30	10.10	10.20	6.94	11.3 ^J	13.10	10.60	6.79	10.2 ^J	14.00
Calcium	-	-	-	28.40	15.40	28.80	7.32	29.10	28.80	30.40	6.70	24.00	30.10
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	110	62.6	110	29.3	131	121	117	27.8	111	128
TDS	-	-	500	150	83	150	53	130	130	170	56	120	130

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Trent & Barker Road, monitoring well				Euclid & Barker monitoring well at CID5					Barker Road north of river, monitoring well					
WQMP Well ID		5505D01				5507A04					5507H01					
SampleID/Comment		5505D01	5505D01	5505D01	5505D01	5507A04	5507A04A duplicate	5507A04	5507A04	5507A04	5507H01	5507H01	5507H01	5507H01		
Quarter		1	2	3	4	1	1	2	3	4	1	2	3	4		
Sample Date		1/21/2008	5/12/2008	8/11/2008	11/3/2008	1/21/2008	1/21/2008	5/12/2008	8/11/2008	11/3/2008	1/21/2008	5/12/2008	8/11/2008	11/3/2008		
Static Water Level (ft)		94.95	89.62	94.45	93.25	72.07		66.41	69.72	70.47	50.56	44.57	48.09	48.96		
Average Static Water Level (ft)		93.58	90.40	94.53	94.94	70.71		66.92	71.18	72.00	49.70	45.28	49.48	50.47		
Sample Depth (ft)		96	90.5	95.5	94.5	73		67.5	71	71.5	51.5	45.5	49	50		
Conductivity (µS/cm)		369.00	350.00	363.00	359.00	366.00		343.00	343.00	360.00	58.00	75.00	57.00	55.00		
Water Temperature (C°)		9.30	12.20	13.90	11.60	8.30		11.00	13.00	10.40	5.00	8.60	21.60	13.20		
pH		7.94	7.85	7.88	7.69	7.73		7.81	7.87	7.84	7.56	7.33	6.69	7.87		
Analytes	Washington Drinking Water Standards															
	MCL ¹	Trigger Level ²	Secondary													
Phosphorus	-	-	-	0.09 ^R	0.007	0.010	0.010	0.09 ^R	0.09 ^R	0.002	0.005	0.004	0.02 ^R	0.010	0.011	0.007
Ortho-Phosphate	-	-	-	0.013 ^R	0.005	0.008	0.007	0.003 ^R	0.003 ^R	0.002	0.002	0.002	0.006 ^R	0.008	0.009	0.004
Nitrate+Nitrite	10	5	-	2.65	3.16	3.44	3.28	1.27	1.25	1.54	1.58	1.51	0.22	0.43	0.17	0.13
Arsenic	0.01	0.005	-	0.00500	0.00594	0.00311	0.00596^J	0.00198	0.00203	0.00322	<0.00165	0.00176 ^J	<0.00165	0.00283	<0.00165	0.00174 ^J
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.000213	<0.00020	<0.00020	0.000268
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100 ^J	<0.100	<0.100	0.101	0.101	<0.100 ^J	<0.100	<0.100	<0.100	<0.100 ^J	<0.100	<0.100
Chloride	-	250	250	4.07	4.35	4.73	4.72	1.81	1.82	1.80	1.52	1.80	1.65	8.84	1.08	1.09
Sodium	-	-	-	5.79	5.52	6.50	6.14	3.00	3.06	2.93	3.50	3.29	1.90	2.91	2.02	1.66
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	13.80	12.50	14.70	13.40	18.00	18.50	16.70	19.20	18.20	1.90	2.90	1.73	1.57
Potassium	-	-	-	2.48	2.25	2.78	2.44	2.10	2.15	1.91	2.25	2.14	0.60	0.73	1.12	0.63
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00126	<0.00100	<0.00100
Sulfate	-	-	250	11.30	15.10	14.00	11.90	15.80	15.70	20.80	18.40	16.70	4.14	10.20	3.70	3.74
Calcium	-	-	-	48.50	42.60	50.30	45.10	43.60	44.10	38.50	44.00	41.60	6.49	9.89	6.00	5.23
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	160	167	192	172	170	169	170	200	181	18.4	29.3	27.7	19.4
TDS	-	-	500	230	240	220	200	220	220	220	190	180	54	93	42	14

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

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Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Barker Road Centennial Trail North, monitoring well				Barker Road Centennial Trail South, monitoring well				Mission & Barker monitoring well at CID 4					
WQMP Well ID		5508M01				5508M02				5517D05					
SampleID/Comment		5508M01	5508M01	5508M01	5508M01	5508M02	5508M02	5508M02	5508M02	5517D05	5517D05	5517D05	5517D05		
Quarter		1	2	3	4	1	2	3	4	1	2	3	4		
Sample Date		1/21/2008	5/12/2008	8/11/2008	11/3/2008	1/21/2008	5/12/2008	8/11/2008	11/3/2008	1/21/2008	5/12/2008	8/11/2008	11/3/2008		
Static Water Level (ft)		69.06	62.88	66.78	67.51	69.81	64.07	67.62	68.31	86.55	80.93	84.30	84.99		
Average Static Water Level (ft)		67.87	63.75	68.23	69.02	68.77	64.72	68.91	69.86	84.92	80.38	85.73	86.53		
Sample Depth (ft)		70	64	67.8	68.5	71	65	68.5	39.5	87.5	82	85.2	86		
Conductivity (µS/cm)		59.00	56.00	63.00	51.00		57.00	62.00	51.00	108.00	110.00	102.00	93.00		
Water Temperature (C°)		8.00	8.30	17.80	17.10	7.60	8.50	16.90	16.80	9.80	14.50	14.00	12.00		
pH		7.33	7.41	7.04	6.43	6.97	7.51	7.06	6.48	7.43	7.69	7.09	6.39		
Analytes	Washington Drinking Water Standards														
	MCL ¹	Trigger Level ²	Secondary												
Phosphorus	-	-	-	0.05 ^R	0.006	0.008	0.011	0.08 ^R	0.006	0.009	0.008	0.03 ^R	0.003	0.005	0.004
Ortho-Phosphate	-	-	-	0.006 ^R	0.005	0.007	0.011	0.005 ^R	0.005	0.007	0.005	0.003 ^R	0.003	0.002	0.001
Nitrate+Nitrite	10	5	-	0.18	0.19	0.23	0.22	0.17	0.16	0.22	0.17	0.50	0.91	0.42	0.44
Arsenic	0.01	0.005	-	<0.00165	<0.00165	<0.00165	<0.00165 ^J	<0.00165	0.00175	<0.00165	<0.00165 ^J	<0.00165	0.00270	<0.00165	0.00301 ^J
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	0.00554	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100 ^J	<0.100	<0.100	<0.100	<0.100 ^J	<0.100	<0.100	<0.100	<0.100 ^J	<0.100	<0.100
Chloride	-	250	250	1.48	2.34	1.01	1.06	1.48	2.29	0.96	1.57	1.67	1.99	1.44	1.38
Sodium	-	-	-	1.73	1.80	2.00	1.76	1.63	1.85	2.02	1.78	2.05	2.15	1.85	1.82
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	1.77	1.62	1.55	1.46	1.65	1.66	1.58	1.39	4.03	3.78	3.79	3.47
Potassium	-	-	-	0.68	0.53	0.72	0.74	0.67	0.55	0.85	0.69	1.13	0.99	1.10	0.92
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	4.02	7.14	4.04	3.76	3.94	6.82	3.85	3.67	4.71	7.75	5.99	4.49
Calcium	-	-	-	6.33	5.55	5.50	5.16	6.03	5.72	5.65	4.77	12.70	11.30	10.90	10.10
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	18.2	19	24	19.4	18	19.3	25	19.9	42.9	45.1	47.4	44.1
TDS	-	-	500	56	62	35	13	52	66	30	19	72	85	55	36

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Fire Station Houston & Regal, No. Spokane WD						Holy Cross, Rhoades & Washington monitoring well				Franklin Park, City monitoring well					
WQMP Well ID		6327N04						6330J01				6331J01					
SampleID/Comment		6327N04	6327N04A duplicate	6327N04	6327N04A duplicate	6327N04	6327N04	6327N04A duplicate	6330J01	6330J01	6330J01	6330J01	6331J01	6331J01	6331J01		
Quarter		1	1	2	2	3	4	4	1	2	3	4	1	2	3		
Sample Date		2/12/2008	2/12/2008	5/15/2008	5/15/2008	8/14/2008	11/6/2008	11/6/2008	2/12/2008	5/15/2008	8/14/2008	11/6/2008	2/12/2008	5/15/2008	8/14/2008		
Static Water Level (ft)		188.69		186.24		186.73	188.93		209.82	208.41	210.20	210.66	205.37	202.26	205.91		
Average Static Water Level (ft)		187.97		185.97		187.99	189.56		209.72	208.44	211.31	211.27	205.02	202.62	206.79		
Sample Depth (ft)		190		187.5		188	190		212	210	212.5	212	208	208.5	208.5		
Conductivity (µS/cm)		396.00		399.00		478.00	484.00		271.00	258.00	258.00	261.00	245.00	230.00	240.00		
Water Temperature (C°)		12.50		14.80		16.10	11.80		12.20	15.00	15.60	11.20	12.90	15.40	15.50		
pH		7.77		7.88		7.77	7.28		7.94	8.09	8.06	7.65	7.99	8.17	7.95		
Analytes	Washington Drinking Water Standards																
	MCL ¹	Trigger Level ²	Secondary														
Phosphorus	-	-	-	0.003 ^R	0.003 ^R	0.002	0.003	0.002	0.002	0.003	0.004 ^R	0.003	0.003	0.005	0.007 ^R	0.003	0.005
Ortho-Phosphate	-	-	-	0.002 ^R	0.002 ^R	0.002	0.002	0.001	0.001	0.001	0.002 ^R	0.002	0.002	0.001	0.003 ^R	<0.001	0.002
Nitrate+Nitrite	10	5	-	2.82	3.06	1.93	1.89	3.66	2.10	2.07	1.25	1.30	1.31	1.53	1.25	1.04	1.22
Arsenic	0.01	0.005	-	0.00253	0.00196	<0.00165	0.00247	0.00276 ^J	<0.00165	0.00189	0.00296	0.00238	0.00452 ^J	0.00260	0.00366	0.00256	0.00521^J
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	0.00479	0.00265	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	0.00772	<0.00250	<0.00250	<0.00250	0.00496	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	0.122	0.114	<0.100	0.142	0.142	<0.100	<0.100	<0.100	0.137	<0.100	<0.100	<0.100
Chloride	-	250	250	9.66	10.60	6.66	6.76	11.40	8.36	8.48	3.13	3.44	3.31	4.50	2.47	2.46	3.05
Sodium	-	-	-	9.51	9.83	9.05	8.91	9.34	8.97	8.51	3.21	3.88	3.79	3.34	2.78	3.25	3.16
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	20.20	20.20	22.30	21.90	28.10	22.00	20.70	15.10	17.00	15.10	15.80	12.50	14.00	13.40
Potassium	-	-	-	3.14	3.15	3.53	3.42	3.86	3.15	2.97	1.87	2.17	2.03	1.84	1.68	1.99	1.91
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00163
Sulfate	-	-	250	17.30	18.10	20.60	20.70	23.20	17.40	17.60	13.60	15.60	15.20	12.60	11.40	13.60	13.70
Calcium	-	-	-	34.30	33.50	34.50	34.10	37.10	35.60	33.30	28.40	30.90	28.50	30.20	26.20	28.30	28.00
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	144	151	150	150	191	163	165	122	123	125	129	110	108	117
TDS	-	-	500	170	170	180	180	220	200	200	120	150	140	150	120	130	120

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		East Valley High School monitoring well				Idaho Road 1000 ft south of Trent, monitoring well						Idaho Road 300 ft south of pipeline, monitoring well						
WQMP Well ID		6436N01				6524R01						6525R01						
SampleID/Comment		6436N01	6436NO1	6436NO1	6436N01	6524R01	6524R01	6524R01A duplicate	6524R01	6524R01A duplicate	6524R01	6524R01A duplicate	6525R01	6525R01	6525R01	6525R01		
Quarter		1	2	3	4	1	2	2	3	3	4	4	1	2	3	4		
Sample Date		2/14/2008	5/13/2008	8/12/2008	11/4/2008	1/21/2008	5/12/2008	5/12/2008	8/11/2008	8/11/2008	11/3/2008	11/3/2008	1/21/2008	5/12/2008	8/11/2008	11/3/2008		
Static Water Level (ft)		117.58	110.24	115.98	115.99	128.80	124.58		124.89		125.68		106.98	102.87	103.04	103.89		
Average Static Water Level (ft)		116.51	110.33	117.89	116.69	127.85	125.97		127.47		128.78		106.11	103.22	105.40	106.23		
Sample Depth (ft)		119	111.5	117	117	130	126		126		127		108	104	104	105		
Conductivity (µS/cm)		666.00	494.00	543.00	656.00	325.00	294.00		302.00		278.00		323.00	304.00	311.00	307.00		
Water Temperature (C°)		12.20	13.10	14.20	12.50	8.00	10.90		12.80		10.60		8.10	10.40	12.90	10.90		
pH		7.39	7.46	7.38	7.31	7.81	7.88		7.94		7.76		8.06	7.91	7.98	7.68		
Analytes	Washington Drinking Water Standards																	
	MCL ¹	Trigger Level ²	Secondary															
Phosphorus	-	-	-	0.03 ^R	0.041	0.043	0.044	0.05 ^R	0.003	0.004	0.005	0.005	0.004	0.006	0.03 ^R	0.011	0.005	0.004
Ortho-Phosphate	-	-	-	0.033 ^R	0.039	0.041	0.037	0.007 ^R	0.003	0.003	0.003	0.003	0.001 ^J	0.003 ^J	0.006 ^R	0.002	0.002	0.001
Nitrate+Nitrite	10	5	-	8.17	5.50	6.46	6.09	2.02	2.41	2.41	2.37	2.21	1.55	1.61	1.03	1.13	1.22	0.99
Arsenic	0.01	0.005	-	<0.00165	0.00332	0.00374	0.00441	0.00342	0.00520	0.00440	0.00241	0.00265	0.00551^J	0.00570^J	0.00254	0.00333	<0.00165	0.00342 ^J
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00613
Mercury	0.002	0.0004	-	<0.00020	<0.00020	0.00177	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	0.000264	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	0.165	<0.100	0.136	0.120	<0.100	<0.100 ^J	<0.100 ^J	<0.100	<0.100	<0.100	<0.100	0.103	<0.100 ^J	<0.100	<0.100
Chloride	-	250	250	4.60	13.00	9.14 ^J	7.11	2.05	2.24	2.24	2.01	2.03	2.20	2.22	1.47	1.47	1.34	1.35
Sodium	-	-	-	7.37	10.10	10.30	9.09	3.41	3.09	3.13	3.17	3.22	3.06	2.90	3.12	2.85	3.08	3.05
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	37.00	22.20	27.60	36.80	15.40	13.20	13.50	14.60	14.80	12.80	12.30	18.40	15.50	17.50	16.60
Potassium	-	-	-	4.70	3.59	3.90	4.55	2.18	1.88	1.91	2.08	2.13	1.80	1.72	2.13	1.78	1.94	1.93
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	0.00489	<0.00100	0.00139	0.00104	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	18.20	24.80	16.5 ^J	19.80	9.81	13.40	13.60	11.90	12.00	8.76	8.81	15.80	20.70	18.20	16.80
Calcium	-	-	-	77.70	56.30	65.40	78.10	39.20	32.10	32.30	36.70	37.20	30.40	29.30	38.20	31.90	35.80	33.00
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	306	213	299	339	139	141	142	168	174	146	148	144	148	170	155
TDS	-	-	500	400	290	320	350	190	180	180	170	170	140	140	190	190	160	150

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems.

Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Idaho Road - East Farms monitoring well at CID11				I.E. COLD STORAGE				CITY of SPOKANE-Nevada					
WQMP Well ID		6631M07				5213B01				5308A02					
SampleID/Comment		6631M07	6631M07	6631M07	6631M07	5213B01	5213BOI	5213BOI	5213B01	5308A02	5308AO2	5308AO2	5308A02		
Quarter		1	2	3	4	1	2	3	4	1	2	3	4		
Sample Date		1/21/2008	5/12/2008	8/11/2008	11/3/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008		
Static Water Level (ft)		117.92	113.66	114.01	114.87										
Average Static Water Level (ft)		117.11	114.20	116.52	117.23										
Sample Depth (ft)		120	115	115	116										
Conductivity (µS/cm)		273.00	276.00	266.00	267.00	360.00	356.00	274.00	320.00	257.00	241.00	214.00	246.00		
Water Temperature (C°)		10.80	13.10	16.10	14.20	11.30	11.90	12.40	11.00	11.20	11.90	12.20	11.20		
pH		7.84	7.74	7.60	7.40	7.43	7.67	7.57	6.13	7.61	8.03	7.99	7.07		
Analytes	Washington Drinking Water Standards														
	MCL ¹	Trigger Level ²	Secondary												
Phosphorus	-	-	-	0.04 ^R	0.003	0.006	0.010	0.1 ^R	0.006	0.009	0.008	0.11 ^R	0.002	0.004	0.006
Ortho-Phosphate	-	-	-	0.012 ^R	<0.001	0.004	0.002	0.008 ^R	0.006	0.008	0.008	0.004 ^R	0.001	0.002	0.006
Nitrate+Nitrite	10	5	-	1.53	1.76	1.64	1.66	2.45 ^J	2.17	1.52	1.98	1.22 ^J	1.11	1.15	1.18
Arsenic	0.01	0.005	-	0.00451	0.00485	0.00376	0.00381 ^J	0.00255	0.00330 ^J	0.00238	<0.00165	0.00254	0.00233 ^J	<0.00165	<0.00165
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00210	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100 ^J	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	3.23	3.36	3.15	3.15	17.60	18.70	19.00	23.10	3.54	4.16	3.77	5.31
Sodium	-	-	-	2.80	2.68	2.84	2.79	7.88	6.89	7.71	8.12	3.14	2.57	2.88	3.14
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01
Magnesium	-	-	-	14.10	12.80	13.70	12.60	12.90	11.40	10.80	11.90	10.20	8.40	9.44	9.94
Potassium	-	-	-	2.26	1.97	2.27	2.06	2.36	2.15	2.29	2.32	1.67	1.50	1.59	1.64
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	0.239	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	10.70	14.70	12.20	10.50	15.10	15.80	14.80	14.10	8.69	9.38	10.10	9.52
Calcium	-	-	-	32.50	27.90	30.80	27.80	39.50	34.20	32.60	36.70	30.00	24.80	26.20	28.60
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	121	125	143	126	130	134	104	120	113	108	102	110
TDS	-	-	500	180	170	150	120	180	210	160	180	130	140	140	140

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems.

Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

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Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		ORCHARD AVE IRRIG DIST, Site 1			CITY of SPOKANE-Ray		E. SPOKANE WTR DIST, Site 1					
WQMP Well ID		5312H01			5322F01		5324G01					
SampleID/Comment		5312H01	5312HO1	5312H01A duplicate	5322FO1	5322F01	5324G01	5324GO1	5324GO1	5324G01		
Quarter		1	3	3	3	4	1	2	3	4		
Sample Date		1/29/2008	7/29/2008	7/29/2008	7/29/2008	10/21/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008		
Static Water Level (ft)												
Average Static Water Level (ft)												
Sample Depth (ft)												
Conductivity (µS/cm)		298.00	332.00		365	409		388.00	254.00	434.00		
Water Temperature (C°)		11.60	13.10		13.3	12	10.50	12.00	14.70	11.50		
pH		7.75	8.10		7.78	7.19	7.07	7.57	8.08	7.39		
Analytes	Washington Drinking Water Standards											
	MCL ¹	Trigger Level ²	Secondary									
Phosphorus	-	-	-	0.06 ^R	0.016	0.017	0.019957	0.0173966	0.1 ^R	0.046	0.010	0.016
Ortho-Phosphate	-	-	-	0.016 ^R	0.015	0.015	0.018636	0.0170536	0.046 ^R	0.041	0.005	0.016
Nitrate+Nitrite	10	5	-	2.01 ^J	2.53	2.39	3.12	3.24	4.56 ^J	3.28	1.69	3.50
Arsenic	0.01	0.005	-	0.00559	0.00528	0.00417	0.00349	0.00508	0.00309	0.00247 ^J	0.00277	0.00398
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00177	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00199	0.00308	0.00263	0.00147
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	3.12	4.65	4.65	10.9	13.6	16.90	15.00	4.46	13.20
Sodium	-	-	-	3.90	4.64	4.64	7.89	8.31	10.90	7.89	4.01	9.34
Zinc	-	5	5	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01
Magnesium	-	-	-	13.00	15.40	15.30	14.8	15.9	16.20	12.60	10.40	17.20
Potassium	-	-	-	1.93	2.26	2.25	2.62	2.69	2.64	2.21	1.82	2.99
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.132	0.065
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00156	<0.00100
Sulfate	-	-	250	10.80	15.10	15.20	15.3	14.7	15.00	14.10	9.83	16.20
Calcium	-	-	-	34.10	40.00	39.90	45	48.9	51.90	38.40	29.70	50.40
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	135	153	154	159	177	180	152	113	192
TDS	-	-	500	150	190	190	210	240	240	220	140	220

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		PASADENA PARK #2				Orchard Ave Irrig Dist Site 2		MODERN ELECT WATER, Site 6					
WQMP Well ID		5405K01				5407C01		5408N01					
SampleID/Comment		5405K01	5405K01	5405K01	5405K01	5407C01	5407C01	5408N01	5408N01	5408N01	5408N01		
Quarter		1	2	3	4	2	3	1	2	3	4		
Sample Date		1/23/2008	4/29/2008	7/29/2008	10/21/2008	4/29/2008	10/21/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008		
Static Water Level (ft)													
Average Static Water Level (ft)													
Sample Depth (ft)													
Conductivity (µS/cm)		233.00	233.00	195.00	194.00	322.00	295.00	264.00	269.00	267.00	264.00		
Water Temperature (C°)		10.60	10.50	14.80	10.90	19.10	14.60	10.70	11.00	12.10	11.70		
pH		7.64	7.79	7.90	7.74	8.17	7.75	7.81	8.11	8.19	7.79		
Analytes	Washington Drinking Water Standards												
	MCL ¹	Trigger Level ²	Secondary										
Phosphorus	-	-	-	0.003 ^R	0.006	0.006	0.008	0.013	0.013	0.007 ^R	0.003	0.004	0.005
Ortho-Phosphate	-	-	-	0.006 ^R	0.005	0.006	0.008	0.011	0.013	0.005 ^R	0.003	0.003	0.005
Nitrate+Nitrite	10	5	-	1.63	1.99	1.35	0.84	1.71	1.91	1.48 ^J	1.30	1.43	1.43
Arsenic	0.01	0.005	-	0.00224	<0.00165 ^J	<0.00165	<0.00165	0.00302 ^J	0.00342	0.00264	0.00284 ^J	<0.00165	0.00221
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	0.00678	0.00291	0.00255	0.00259	0.00109	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	4.09	4.69	3.28	3.34	4.28	4.58	2.59	2.65	3.24	3.86
Sodium	-	-	-	4.17	3.85	3.69	4.05	3.55	4.50	2.97	2.65	3.11	3.26
Zinc	-	5	5	<0.01	<0.01 ^J	0.02	<0.01	<0.01 ^J	<0.01	<0.01	<0.01 ^J	<0.01	<0.01
Magnesium	-	-	-	8.69	7.65	7.79	7.55	12.80	14.00	13.00	11.50	13.90	13.60
Potassium	-	-	-	2.21	1.88	1.88	1.97	1.87	2.18	1.75	1.66	1.90	1.89
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	10.20	10.90	17.40	10.40	14.00	11.90	10.10	11.10	12.50	11.30
Calcium	-	-	-	27.90	23.70	24.30	23.50	31.50	36.00	29.40	25.50	31.00	30.60
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	93.6	98.7	85.3	92.2	148	149	123	124	133	135
TDS	-	-	500	100	140	120	100	180	160	120	150	160	140

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Spokane Co Water Dist #3, Site 2-5, 26th & Vercler						Mission Well, LIBERTY LAKE SEWER DIST				CONSOLIDATED IRRIG DIST 19, Site 2A					
WQMP Well ID		5427L01						5515C01				5518R01					
SampleID/Comment		5427L01	5427L01A duplicate	5427L01	5427L01	5427L01	5427L01A duplicate	5515C01	5515C01	5515C01	5515C01	5518R01	5518R01	5518R01	5518R01		
Quarter		1	1	2	3	4	4	1	2	3	4	1	2	3	4		
Sample Date		1/29/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008	10/21/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008	1/29/2008	4/29/2008	7/29/2008	10/21/2008		
Static Water Level (ft)																	
Average Static Water Level (ft)																	
Sample Depth (ft)																	
Conductivity (µS/cm)		388.00		394.00	386.00	388.00		193.00	264.00	239.00	275.00	148.00	146.00	152.00	160.00		
Water Temperature (C°)		11.10		11.50	13.00	11.60		9.60	12.40	16.60	12.40	12.30	12.90	14.20	13.00		
pH		7.63		7.95	7.98	7.76		8.06	8.10	8.07	7.87	8.26	8.58	8.57	8.28		
Analytes	Washington Drinking Water Standards																
	MCL ¹	Trigger Level ²	Secondary														
Phosphorus	-	-	-	0.04 ^R	0.08 ^R	0.005	0.006	0.007	0.007	0.01 ^R	0.013	0.009	0.010	0.05 ^R	0.003	0.004	0.004
Ortho-Phosphate	-	-	-	0.007 ^R	0.007 ^R	0.005	0.005	0.006	0.006	0.003 ^R	0.011	0.008	0.010	0.003 ^R	0.002	0.002	0.003
Nitrate+Nitrite	10	5	-	2.86	2.79	2.74	2.61	2.89	2.92	0.92	1.27	1.36	1.72	0.55	0.45	0.68	0.82
Arsenic	0.01	0.005	-	0.00457	0.00439	0.00348 ^J	0.00380	0.00386	0.00358	<0.00165	0.00263 ^J	0.00249	0.00271	<0.00165	<0.00165 ^J	<0.00165	<0.00165
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	0.00391	0.00369	0.00257	0.00185	0.00114	<0.00100	0.00134	0.00206	0.00225	0.00101	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	5.60	5.60	5.51	5.93	6.97	6.97	1.67	4.28	2.63	4.21	1.94	1.85	2.31	3.73
Sodium	-	-	-	6.44	6.50	5.55	6.69	7.02	6.72	2.60	3.04	4.53	5.31	2.09	1.82	2.26	2.47
Zinc	-	5	5	<0.01	<0.01 ^J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01
Magnesium	-	-	-	16.30	16.50	14.40	17.30	17.30	16.50	6.46	10.00	8.80	10.70	4.46	3.79	4.87	5.27
Potassium	-	-	-	2.38	2.44	2.21	2.61	2.62	2.50	1.28	1.67	1.77	2.02	1.09	1.01	1.22	1.26
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	12.80	12.70	14.70	16.40	15.10	15.10	6.29	9.96	8.94	11.10	5.05	5.48	6.38	6.06
Calcium	-	-	-	45.30	46.20	39.30	48.70	47.50	45.30	23.90	28.10	28.90	34.50	18.70	15.50	20.60	21.50
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	178	176	182	187	194	191	85.6	126	111	137	66.6	65.3	74.8	78.9
TDS	-	-	500	210	200	220	230	210 ^J	110 ^J	91	160	140	200	69	77	91	73

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

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Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		Spokane Fish Hatchery well							WHITWORTH WATER DIST. #2, Well 2A				NORTH SPOKANE IRRIG. DIST. # 4, Site 4					
WQMP Well ID		6211K01							6320D01				6328H01					
SampleID/Comment		6211K01	6211K01A duplicate	6211K01	6211K01A duplicate	6211K01	6211K01A duplicate	6211K01	6320DO1	6320DO1	6320DO1	6320DO1	6328HO1	6328HO1	6328HO1	6328HO1		
Quarter		1	1	2	2	3	3	4	1	2	3	4	1	2	3	4		
Sample Date		1/23/2008	1/23/2008	5/20/2008	5/20/2008	8/14/2008	8/14/2008	11/6/2008	1/23/2008	5/20/2008	8/14/2008	11/6/2008	#####	5/20/2008	8/14/2008	11/6/2008		
Static Water Level (ft)																		
Average Static Water Level (ft)																		
Sample Depth (ft)																		
Conductivity (µS/cm)		321.00		301.00		309.00		294.00	289.00	259.00	250.00	247.00	258.00	237.00	233.00	230.00		
Water Temperature (C°)		10.40		11.60		13.10		10.20	9.10	11.80	13.60	10.70	8.70	12.00	13.30	10.60		
pH		8.22		8.17		8.24			8.15	8.19	8.23	7.73	8.33	7.83	8.25	7.55		
Analytes	Washington Drinking Water Standards																	
	MCL ¹	Trigger Level ²	Secondary															
Phosphorus	-	-	-	0.01 ^R	0.02 ^R	0.004	0.004	0.005	0.005	0.004	0.003 ^R	0.003	0.003	0.003	0.002 ^R	0.004	0.004	0.004
Ortho-Phosphate	-	-	-	0.006 ^R	0.006 ^R	<0.001	0.003	0.004	0.005	0.004	0.004 ^R	0.001	0.003	0.002	0.005 ^R	<0.001	0.003	0.002
Nitrate+Nitrite	10	5	-	1.59	1.46	1.58	1.54	1.58	1.63	1.62	1.02	1.06	1.09	1.11	1.02	1.01	1.43	1.27
Arsenic	0.01	0.005	-	0.00379	0.00408	0.00432	0.00343	0.00291 ^J	0.00659^J	0.00336	0.00407	0.00333	0.00532^J	0.00319	0.00307	0.00224	<0.00165 ^J	0.00261
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00209	<0.00100	<0.00100	<0.00100	0.00124	0.00442
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	0.112	0.112	<0.100	<0.100	0.130	<0.100	0.115	<0.100	0.135	<0.100	0.144	<0.100	0.159
Chloride	-	250	250	5.32	5.35	5.71	5.72	5.59	5.70	5.37	3.32	3.43	2.71	2.51	7.74	7.14	6.94	5.79
Sodium	-	-	-	3.96	3.99	4.10	4.13	4.09	4.39	3.98	3.01	3.08	3.02	3.15	4.83	4.98	5.57	5.02
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	17.20	17.20	16.80	17.00	17.20	17.60	17.50	15.10	14.80	14.80	15.80	11.30	11.00	11.60	11.20
Potassium	-	-	-	2.18	2.19	2.26	2.28	2.15	2.41	2.09	1.85	1.91	1.82	1.87	2.21	2.26	2.44	2.13
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.062
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	14.50	14.60	15.90	15.90	17.50	17.80	15.00	13.40	14.80	15.90	13.40	11.60	12.60	13.60	11.60
Calcium	-	-	-	32.80	33.00	30.80	31.00	32.20	34.10	33.20	27.80	25.80	26.70	28.70	26.40	25.10	26.60	25.90
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1
Bicarbonate	-	-	-	134	136	141	137	141	141	143	118	118	120	124	99.7	102	104	108
TDS	-	-	500	120	120	140	140	160	160	170	110	120	120	140	110	100	120	140

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

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Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		CONSOLIDATED IRRIG DIST 19, Site 11B				MODERN ELECT WATER, Site 11				6th & Havana monitoring well (MW-2)						
WQMP Well ID		6631M04				5415E03				5323E01						
SampleID/Comment		6631M04	6631M04	6631M04	6631M04	5415E03	5415E03	5415E03	5415E03	5323E01	5323E01A	5323E01	5323E01	5323E01		
Quarter		1	2	3	4	1	2	3	4	1	1	2	3	4		
Sample Date		1/21/2008	5/12/2008	8/11/2008	11/4/2008	1/29/2008	4/29/2008	7/29/2008	#####	1/24/2008	1/24/2008	5/14/2008	8/13/2008	11/5/2008		
Static Water Level (ft)										51.34		44.08	52.07	51.60		
Average Static Water Level (ft)										49.89		45.61	52.81	51.95		
Sample Depth (ft)										52.5		45	54	53		
Conductivity (µS/cm)		248.00	245.00	244.00	226.00	213.00	218.00	226.00	209.00	393.00		331.00	380.00	391.00		
Water Temperature (C°)		11.00	12.10	14.70	12.40	11.20	11.30	12.30	11.50	10.80		13.40	14.90	12.56		
pH		8.06	7.72	8.13	7.90	7.93	8.27	8.29	8.01	7.84		7.83	7.89	7.51		
Analytes	Washington Drinking Water Standards															
	MCL ¹	Trigger Level ²	Secondary													
Phosphorus	-	-	-	0.03 ^R	0.004	0.006	0.005	0.06 ^R	0.003	0.004	0.005	0.13 ^R	0.04 ^R	0.011	0.011	0.010
Ortho-Phosphate	-	-	-	0.006 ^R	0.004	0.004	0.004	0.004 ^R	0.003	0.003	0.004	0.01 ^R	0.011 ^R	0.010	0.010	0.010
Nitrate+Nitrite	10	5	-	1.27	1.37	1.38	1.12	1.08 ^J	1.00	1.18	0.94	2.36	2.45	2.05	3.26	2.85
Arsenic	0.01	0.005	-	0.00581	0.00669	0.00423	0.00779	0.00316	0.00264 ^J	0.00328	0.00274	0.00359	0.00321	0.00222	0.00363	0.00256
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	0.00102	<0.00100	0.00228	0.00196	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100 ^J	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	3.10	3.23	2.87	3.21	2.13	2.27	2.50	3.38	9.52	9.43	7.48	11.20	11.30
Sodium	-	-	-	2.83	2.57	2.77	2.67	2.38	2.15	2.63	2.70	7.38	7.29	6.66	7.71	7.40
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 ^J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	13.60	11.40	11.90	11.90	10.00	9.13	11.40	10.30	14.60	15.20	14.40	16.30	14.60
Potassium	-	-	-	2.21	1.86	1.99	1.98	1.49	1.43	1.69	1.63	2.44	2.60	2.72	2.80	2.41
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060 ^J
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	10.40	13.10	11.60	10.20	8.55	9.75	11.50	9.61	12.80	12.80	14.20	16.30	15.30
Calcium	-	-	-	30.80	24.80	27.10	26.60	23.20	20.90	26.30	24.10	42.30	44.80	40.60	47.90	41.60
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	112	114	126	114	96.8	100	112	106	157	157	138	182	171
TDS	-	-	500	170	160	130	110	100	120	140	100	230	220	180	220	220

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems.

Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		New Balfour Park monitoring well									
WQMP Well ID		5417R02									
SampleID/Comment		5417R02	5417R02	5417R02A duplicate	5417R02	5417R02	5417R02	5417R02	5417R02A duplicate		
Quarter		1	2	2	3	3	4	4			
Sample Date		2/14/2008	5/13/2008	5/13/2008	8/12/2008	8/12/2008	11/4/2008	11/4/2008			
Static Water Level (ft)		72.17	66.53		70.78		71.44				
Average Static Water Level (ft)											
Sample Depth (ft)		73.5	67.5		72		72.5				
Conductivity (µS/cm)		222.00	225.00		205.00		206.00				
Water Temperature (C°)		12.80	14.10		15.90		12.50				
pH		7.98	8.09		8.01		7.52				
Analytes	Washington Drinking Water Standards										
	MCL ¹	Trigger Level ²	Secondary								
Phosphorus	-	-	-	0.004 ^R	0.007	0.007	0.007	0.007	0.010	0.009	
Ortho-Phosphate	-	-	-	0.005 ^R	0.005	0.005	0.005	0.005	0.007	0.008	
Nitrate+Nitrite	10	5	-	0.92	1.10	1.13	1.07	1.12	0.99	0.99	
Arsenic	0.01	0.005	-	0.00175	0.00237	0.00295	0.00264	0.00290	0.00329	0.00453	
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	0.111	0.117	<0.100	<0.100	
Chloride	-	250	250	5.44	3.89	3.93	3.56 ^J	3.78 ^J	3.64	3.65	
Sodium	-	-	-	2.86	2.98	3.04	2.69	2.89	2.72	2.75	
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Magnesium	-	-	-	8.69	7.78	7.79	8.49	9.01	8.42	8.57	
Potassium	-	-	-	1.65	1.53	1.53	1.60	1.85	1.56	1.59	
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	0.00105	<0.00100	0.00207	0.00176	
Sulfate	-	-	250	6.27	10.20	10.20	6.99 ^J	7.49 ^J	8.38	8.44	
Calcium	-	-	-	28.30	25.90	25.90	26.50	27.60	27.20	27.70	
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	
Bicarbonate	-	-	-	96.9	93.7	95.3	109	109	102	102	
TDS	-	-	500	140	120	110	120	120	100	100	

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems.

Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name		SPOKANE FISH HATCHERY, GRIFFITH SPR				Sullivan Spring	Three Springs				Waikiki Springs					
WQMP Well ID		6211J01s				5411R05s	5212F01s				6306P01s					
SampleID/Comment		6211J01S	6211J01S	6211J01S	6211J01S	Sullivan Spring	5212F01s	5212F01s	5212F01s	5212F01s	6306P01s	6306P01s	6306P01s	6306P01s		
Quarter		1	2	3	4	3					1	2	3	4		
Sample Date		1/23/2008	5/20/2008	8/14/2008	11/6/2008	8/12/2008	1/23/2008	5/20/2008	8/12/2008	11/6/2008	1/23/2008	5/20/2008	8/14/2008	11/6/2008		
Static Water Level (ft)																
Average Static Water Level (ft)																
Sample Depth (ft)																
Conductivity (µS/cm)		339.00	328.00	312.00	343.00	222.00	343.00	300.00	304.00	340.00	365.00	343.00	338.00	326.00		
Water Temperature (C°)		9.70	11.80	13.40	10.60	13.30	10.20	12.80	15.90	10.70		12.80		10.50		
pH		8.26	8.12	8.10		8.01	8.11	8.06	8.08		8.40	8.16	8.24			
Analytes	Washington Drinking Water Standards															
	MCL ¹	Trigger Level ²	Secondary													
Phosphorus	-	-	-	0.01 ^R	0.004	0.004	0.005	0.006	0.01 ^R	0.005	0.006	0.004	0.02 ^R	0.006	0.005	0.004
Ortho-Phosphate	-	-	-	0.006 ^R	0.001	0.005	0.004	0.004	0.006 ^R	0.003	0.005	0.003	0.004 ^R	0.002	0.003	0.002
Nitrate+Nitrite	10	5	-	1.72	1.76	1.65	1.85	0.93	2.17	1.79	2.25	2.55	1.90	2.25	2.15	2.41
Arsenic	0.01	0.005	-	0.00338	0.00250	0.00461 ^J	0.00432	0.00248	0.00146	0.00264	0.00472	0.00325	0.00306	0.00166	0.00420 ^J	0.00324
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00100	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	0.115	<0.100	0.127	0.119	<0.100	0.127	0.108	0.135	<0.100	0.117	<0.100	0.136
Chloride	-	250	250	6.30	7.02	6.14	7.52	1.99 ^J	7.34	8.87	10.3 ^J	11.40	6.78	10.90	9.38	7.83
Sodium	-	-	-	4.43	4.60	4.18	4.72	3.32	6.12	6.09	5.44	6.03	6.00	6.53	6.41	6.25
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	18.60	18.00	17.30	19.40	12.20	14.10	13.00	13.00	14.30	18.60	18.70	18.50	19.20
Potassium	-	-	-	2.34	2.42	2.19	2.33	1.82	2.28	2.34	2.07	2.12	2.43	2.60	2.38	2.36
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00185	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	15.40	17.00	17.90	16.20	10.6 ^J	14.40	14.20	13.3 ^J	15.20	16.40	18.10	19.00	16.80
Calcium	-	-	-	35.10	32.70	32.40	36.90	28.30	39.80	34.60	36.00	40.50	33.30	32.00	32.40	34.00
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1
Bicarbonate	-	-	-	144	146	143	157	123	138	128	145	144	138	140	143	147
TDS	-	-	500	150	160	170	190	130	140	150	170	190	140	160	180	190

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

3 Federal Action Levels established for distribution systems. Results in **bold italics** exceed a standard

J-Analyte was positively identified; the quantitation is estimated

R-The data are rejected due to deficiencies in the ability to analyze the sample and meet QC criteria

Spokane County Water Resources 2008 Annual Monitoring Report

Appendix B: Quarterly Results

Well Name				Blank			Equipment Blank		
WQMP Well ID				Blank			Equipment Blank		
SampleID/Comment				Blank	Blank	Blank	Equipment Blank	Equipment Blank	Equipment Blank
Quarter				1	2	3	1	2	3
Sample Date				2/12/2008	5/15/2008	8/13/2008	2/12/2008	5/15/2008	8/13/2008
Static Water Level (ft)									
Average Static Water Level (ft)									
Sample Depth (ft)									
Conductivity (µS/cm)									
Water Temperature (C°)									
pH									
Analytes	Washington Drinking Water Standards								
	MCL ¹	Trigger Level ²	Secondary						
Phosphorus	-	-	-	0.002 ^R	<0.002	<0.002	0.002 ^R	<0.002	<0.002
Ortho-Phosphate	-	-	-	0.002 ^R	<0.001	0.001	0.002 ^R	<0.001	<0.001
Nitrate+Nitrite	10	5	-	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05
Arsenic	0.01	0.005	-	<0.00165	<0.00165	0.00188	<0.00165	<0.00165	<0.00165
Lead ³	0.015	1	-	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Copper ³	1.3	0.02	1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Mercury	0.002	0.0004	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium	0.005	0.005	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium	0.1	0.02	-	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250	<0.00250
Fluoride	4	0.5	2	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Chloride	-	250	250	<0.2	0.33	<0.2	<0.2	0.34	<0.2
Sodium	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Zinc	-	5	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	-	-	-	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Potassium	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Iron	-	0.1	0.3	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
Manganese	-	0.05	0.05	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sulfate	-	-	250	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Calcium	-	-	-	<0.04	<0.04	<0.04	0.09	0.12	0.22
Carbonate	-	-	-	<1	<1	<1	<1	<1	<1
Bicarbonate	-	-	-	<1	<1	<1	<1	<1	<1
TDS	-	-	500	<10	<10	18	<10	<10	16

All results reported in mg/l (ppm)

1 Maximum Contaminant Levels

2 Trigger level identified on WA Dept of Health analytical results forms.

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