

Appendix E1. Conductivity (uS/cm) Summary Table

Well ID	Well Name	# Measurements	Summary Statistics						
			Min	Q1	Average	Median	Q3	Max	StDev
5323 E01	6th & Havana monitoring well (MW-2)	78	292.00	352.50	376.13	384.50	398.53	455.00	36.90
5508M01	Barker Road Centennial Trail North, monitoring well	76	35.00	49.75	54.51	53.50	59.15	80.00	8.09
5508M02	Barker Road Centennial Trail South, monitoring well	74	40.00	50.00	55.57	55.95	59.95	80.00	8.00
5507H01	Barker Road north of river, monitoring well	75	40.00	53.00	59.23	58.00	63.50	96.00	9.75
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	43	35.50	237.00	239.54	243.00	250.00	284.00	34.55
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	51	110.00	135.50	143.86	144.00	152.00	187.00	16.19
5308A02	CITY of SPOKANE-Nevada	48	165.00	211.50	227.74	223.50	246.00	270.00	25.22
5322F01	CITY of SPOKANE-Ray	75	213.00	395.50	415.70	427.00	450.00	494.40	48.93
5308H01	Denver & Marietta, City monitoring well	85	153.00	193.00	214.20	215.00	233.00	275.00	26.53
6436N01	East Valley High School monitoring well	54	424.40	474.75	545.03	537.40	594.58	804.00	86.35
5324G01	E. SPOKANE WTR DIST, Site 1	76	254.00	414.75	430.60	445.45	461.00	499.00	52.21
5507A04	Euclid & Barker monitoring well at CID5	93	240.00	336.00	342.95	345.00	355.00	421.00	24.19
5312C01	Felts Field City monitoring well	69	165.00	186.60	201.33	200.00	213.00	252.00	19.69
6327N04	Fire Station Houston & Regal, No. Spokane WD	78	290.00	374.50	407.76	409.00	439.48	529.00	48.30
6331J01	Franklin Park, City monitoring well	52	190.00	238.53	244.18	242.50	253.00	287.00	16.98
5409C02	monitoring well Frederick & Bowdish	45	230.00	264.00	281.65	283.00	297.00	343.00	21.13
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	69	214.00	314.00	323.55	328.00	337.00	360.00	21.99
5311J05	Hale's Ale Nested Site, east	104	240.00	310.75	318.84	321.00	331.00	385.00	20.09
5311J07	Hale's Ale Nested Site, mid	58	220.00	309.25	317.59	320.00	329.60	383.00	22.39
6211K01	Spokane Fish Hatchery well	52	250.00	281.75	292.53	292.50	302.00	339.70	17.42
6330J01	Holy Cross, Rhoades & Washington monitoring well	55	235.00	257.50	266.61	263.00	271.50	324.00	17.31
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	78	215.00	282.50	295.45	294.50	312.00	339.00	23.59
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89	225.00	295.00	301.27	302.00	311.00	355.00	16.80
6631M07	Idaho Road - East Farms monitoring well at CID11	107	210.00	261.00	272.97	274.00	283.50	316.00	18.70
5213B01	I.E. COLD STORAGE	53	178.00	315.00	321.42	324.00	343.00	377.00	34.67
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	53	165.00	226.00	242.31	247.00	265.00	309.00	33.26
5517D05	Mission & Barker monitoring well at CID 4	76	65.00	100.00	110.18	107.00	123.25	150.00	15.26
5415 E03	MODERN ELECT WATER, Site 11	29	165.00	202.00	207.11	209.00	214.00	229.00	13.42
5408N01	MODERN ELECT WATER, Site 6	55	172.00	253.00	262.54	264.00	278.00	313.00	24.52
5304G01	NE Community Center, City monitoring well	53	215.00	266.00	289.00	284.00	309.50	362.00	30.41
5417R02	New Balfour Park monitoring well	48	173.00	192.65	200.50	201.00	206.00	241.00	13.22
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	53	196.00	227.00	235.53	236.00	245.00	282.00	17.20
5315L01	Olive & Fiske monitoring well	87	183.00	230.00	241.66	240.00	255.00	290.00	20.37
5312H01	ORCHARD AVE IRRIG DIST, Site 1	49	256.90	290.00	298.46	299.00	311.00	338.00	19.87
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	49	227.00	291.00	302.78	304.50	320.00	350.00	23.80
5405K01	PASADENA PARK #2	71	135.00	177.00	191.18	193.40	205.00	240.00	22.07
5404A01	Plantes Ferry Park monitoring well	28	250.00	302.75	311.40	311.50	316.50	359.00	21.34
5310Q01	monitoring well at SCC	87	169.00	202.65	219.12	217.00	233.00	277.00	20.66
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	73	310.00	374.00	388.13	388.00	404.00	465.30	28.78
5411R03	Sullivan Park South, monitoring well	102	67.00	211.25	231.13	236.00	256.00	300.00	38.52
5411R05s	Springs at Sullivan Park	11	209.00	230.50	245.77	254.60	255.95	273.00	20.66
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	104.40	211.05	224.28	253.35	258.85	261.20	51.31
5322A01	Third & Havana Nested Site, east	85	215.00	264.70	274.00	273.00	284.00	315.00	18.06
5322A03	Third & Havana Nested Site, mid	58	220.00	270.00	279.14	278.50	285.00	320.00	18.29
5212F01s	Three Springs	68	244.00	297.75	308.67	311.00	322.00	351.40	23.91
5505D01	Trent & Barker Road, monitoring well	91	260.00	343.50	350.59	355.00	364.10	403.00	24.24
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	215.00	254.25	261.06	260.00	271.00	299.00	15.50
5426L03	VERA WATER & POWER, New Well 4	21	323.90	358.30	387.58	386.10	414.00	450.00	34.11
6306P01s	Waikiki Springs	63	226.00	342.50	360.58	365.50	388.50	416.50	38.33
6306P01s2	Waikiki Springs-new location	14	307.00	319.70	322.71	324.25	327.20	332.60	7.23
6320D01	WHITWORTH WATER DIST. #2, Well 2A	52	214.00	240.50	249.18	250.50	260.00	289	14.87
	TOTAL (ALL SITES)	3183	72.00	225.00	276.20	275.00	328.00	481.00	99.90

Appendix E2. Dissolved Oxygen (mg/L) Summary Table

Well ID	Well Name	# Measurements	Summary Statistics						
			Min	Q1	Average	Median	Q3	Max	StDev
5323 E01	6th & Havana monitoring well (MW-2)	38	4.75	8.57	8.99	8.95	9.61	12.44	1.41
5508M01	Barker Road Centennial Trail North, monitoring well	23	0.32	1.83	6.19	6.54	9.22	13.39	4.35
5508M02	Barker Road Centennial Trail South, monitoring well	22	0.90	1.94	6.52	7.18	10.39	13.71	4.36
5507H01	Barker Road north of river, monitoring well	23	2.21	2.85	6.73	7.68	9.41	14.53	3.77
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	11	4.25	6.26	7.11	7.14	7.92	9.86	1.48
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	12	6.04	8.12	9.29	9.16	10.64	11.96	1.82
5308A02	CITY of SPOKANE-Nevada	10	4.51	7.71	8.48	8.62	9.29	12.05	1.93
5322F01	CITY of SPOKANE-Ray	34	5.08	8.87	9.47	9.38	10.15	12.37	1.39
5308H01	Denver & Marietta, City monitoring well	40	4.97	7.50	8.16	8.01	8.83	11.60	1.35
6436N01	East Valley High School monitoring well	38	4.95	8.80	9.13	9.25	9.71	10.77	1.02
5324G01	E. SPOKANE WTR DIST, Site 1	36	5.50	8.91	9.55	9.55	10.28	12.75	1.39
5507A04	Euclid & Barker monitoring well at CID5	38	6.12	8.44	9.15	9.07	9.75	11.73	1.24
5312C01	Felts Field City monitoring well	27	5.40	7.27	7.97	7.87	8.37	10.50	1.11
6327N04	Fire Station Houston & Regal, No. Spokane WD	38	3.89	6.78	7.43	7.33	7.76	13.82	1.71
6331J01	Franklin Park, City monitoring well	14	1.95	5.85	6.64	6.44	7.30	13.19	2.49
5409C02	monitoring well Frederick & Bowdish	14	4.85	7.86	8.16	8.23	8.83	10.60	1.60
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	34	5.52	7.00	7.93	7.78	8.50	15.31	1.67
5311J05	Hale's Ale Nested Site, east	52	6.32	8.55	9.18	9.05	9.48	12.83	1.24
5311J07	Hale's Ale Nested Site, mid	15	6.43	8.77	9.17	9.07	9.39	11.43	1.17
6211K01	Spokane Fish Hatchery well	8	3.55	5.71	6.98	6.27	7.04	13.56	3.05
6330J01	Holy Cross, Rhoades & Washington monitoring well	13	3.44	6.90	7.99	7.44	8.29	13.90	2.87
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	35	6.04	8.54	9.09	8.89	9.67	11.78	1.13
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	37	5.61	7.90	8.66	8.46	9.15	11.84	1.20
6631M07	Idaho Road - East Farms monitoring well at CID11	43	3.72	6.16	6.69	6.47	7.00	8.77	0.95
5213B01	I.E. COLD STORAGE	11	4.60	8.66	9.42	10.00	10.67	12.54	2.10
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	12	5.44	6.14	8.32	7.88	10.53	12.52	2.64
5517D05	Mission & Barker monitoring well at CID 4	23	5.19	7.20	7.91	7.55	8.86	10.63	1.41
5415 E03	MODERN ELECT WATER, Site 11	12	5.52	8.17	9.18	9.09	10.65	11.44	1.70
5408N01	MODERN ELECT WATER, Site 6	12	5.66	9.37	10.17	10.01	11.46	13.36	1.98
5304G01	NE Community Center, City monitoring well	14	3.03	7.78	7.95	8.50	8.80	11.88	2.22
5417R02	New Balfour Park monitoring well	37	3.88	8.50	8.78	8.69	9.07	11.83	1.09
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	13	4.87	5.82	7.27	6.55	7.90	11.89	2.06
5315L01	Olive & Fiske monitoring well	43	3.84	7.32	7.71	7.73	8.02	10.97	1.24
5312H01	ORCHARD AVE IRRIG DIST, Site 1	23	6.76	8.42	9.53	9.18	10.39	13.44	1.64
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	23	3.88	7.15	8.39	8.93	9.77	12.78	2.34
5405K01	PASADENA PARK #2	35	5.58	7.96	8.85	9.06	9.89	11.80	1.65
5404A01	Planters Ferry Park monitoring well	14	0.15	0.20	0.53	0.29	0.64	1.95	0.54
5310Q01	monitoring well at SCC	47	5.13	7.53	8.21	7.96	8.71	11.67	1.34
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	38	5.85	7.98	8.79	8.57	9.32	11.32	1.15
5411R03	Sullivan Park South, monitoring well	42	5.48	8.06	9.03	8.94	9.54	13.20	1.48
5411R05s	Springs at Sullivan Park	9	7.42	8.04	8.71	8.15	9.00	11.58	1.34
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	6.26	6.86	8.43	8.04	9.31	11.81	1.89
5322A01	Third & Havana Nested Site, east	39	0.00	8.29	8.55	8.89	9.30	12.46	2.04
5322A03	Third & Havana Nested Site, mid	14	4.78	8.55	8.56	8.89	9.12	11.78	1.73
5212F01s	Three Springs	34	6.20	9.01	9.39	9.44	9.89	13.36	1.40
5505D01	Trent & Barker Road, monitoring well	38	5.37	6.92	7.85	7.66	8.30	10.51	1.29
5307M01	Trinity School, Adams & Carlisle, City monitoring well	12	4.79	8.13	8.19	8.59	9.02	10.78	1.67
5426L03	VERA WATER & POWER, New Well 4	21	5.98	7.28	8.36	8.21	8.65	12.20	1.65
6306P01s	Waikiki Springs	28	5.03	9.30	10.13	9.89	10.75	18.08	2.12
6306P01s2	Waikiki Springs-new location	14	6.21	8.82	9.82	10.51	11.23	11.59	1.82
6320D01	WHITWORTH WATER DIST. #2, Well 2A	13	4.27	5.36	6.55	5.81	6.66	12.84	2.31
	TOTAL (ALL SITES)	1288	4.41	7.47	8.49	8.53	9.51	12.54	2.15

Appendix E3. pH Summary Table

ID	Name	# Measurements	Summary Statistics						
			Min	Q1	Average	Median	Q3	Max	StDev
5323 E01	6th & Havana monitoring well (MW-2)	76	7.19	7.52	7.65	7.63	7.76	8.88	0.25
5508M01	Barker Road Centennial Trail North, monitoring well	73	6.16	6.66	6.92	6.84	7.30	7.67	0.41
5508M02	Barker Road Centennial Trail South, monitoring well	73	6.12	6.66	6.93	6.92	7.23	7.60	0.37
5507H01	Barker Road north of river, monitoring well	73	6.04	6.68	7.01	6.97	7.43	7.87	0.49
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	45	6.43	7.52	7.78	7.86	8.06	8.27	0.37
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	7.40	8.09	8.24	8.27	8.48	8.75	0.31
5308A02	CITY of SPOKANE-Nevada	48	6.03	7.25	7.63	7.79	7.99	8.19	0.47
5322F01	CITY of SPOKANE-Ray	71	6.31	7.25	7.45	7.42	7.61	11.78	0.59
5308H01	Denver & Marietta, City monitoring well	83	6.52	7.39	7.54	7.57	7.72	8.54	0.29
6436N01	East Valley High School monitoring well	53	6.90	7.25	7.34	7.37	7.44	7.83	0.16
5324G01	E. SPOKANE WTR DIST, Site 1	74	6.53	7.28	7.41	7.45	7.55	8.31	0.29
5507A04	Euclid & Barker monitoring well at CID5	90	7.16	7.49	7.61	7.64	7.74	7.97	0.19
5312C01	Felts Field City monitoring well	68	7.34	7.80	7.97	8.04	8.17	8.54	0.26
6327N04	Fire Station Houston & Regal, No. Spokane WD	78	6.50	7.55	7.67	7.68	7.82	9.24	0.31
6331J01	Franklin Park, City monitoring well	53	7.17	7.86	7.96	7.99	8.16	8.44	0.25
5409C02	monitoring well Frederick & Bowdish	45	6.87	7.43	7.64	7.63	7.90	8.18	0.29
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	38	7.01	7.79	7.88	7.88	8.00	8.56	0.27
5311J05	Hale's Ale Nested Site, east	105	6.90	7.60	7.71	7.72	7.89	8.15	0.24
5311J07	Hale's Ale Nested Site, mid	58	7.30	7.59	7.76	7.79	7.95	8.06	0.22
6211K01	Spokane Fish Hatchery well	44	7.36	7.87	7.98	8.07	8.17	8.26	0.24
6330J01	Holy Cross, Rhoades & Washington monitoring well	55	7.24	7.75	7.91	7.99	8.10	8.52	0.26
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	77	7.09	7.58	7.70	7.74	7.86	8.03	0.22
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89	6.49	7.60	7.72	7.75	7.93	8.12	0.29
6631M07	Idaho Road - East Farms monitoring well at CID11	107	6.42	7.53	7.67	7.74	7.89	8.28	0.34
5213B01	I.E. COLD STORAGE	53	6.13	7.19	7.41	7.55	7.80	8.01	0.51
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	53	6.86	7.76	7.86	7.93	8.06	8.36	0.31
5517D05	Mission & Barker monitoring well at CID 4	73	6.39	7.05	7.21	7.27	7.40	7.75	0.28
5415 E03	MODERN ELECT WATER, Site 11	29	6.75	7.94	8.03	8.07	8.20	8.41	0.31
5408N01	MODERN ELECT WATER, Site 6	53	7.01	7.78	7.88	7.93	8.07	8.32	0.26
5304G01	NE Community Center, City monitoring well	53	6.20	7.76	7.87	7.94	8.08	8.25	0.32
5417R02	New Balfour Park monitoring well	46	6.19	7.59	7.75	7.86	7.96	8.09	0.33
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	53	6.56	7.85	8.02	8.11	8.28	8.81	0.37
5315L01	Olive & Fiske monitoring well	85	7.11	7.70	7.85	7.91	8.01	8.35	0.25
5312H01	ORCHARD AVE IRRIG DIST, Site 1	45	6.82	7.71	7.79	7.79	7.96	8.22	0.27
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	48	6.57	7.65	7.75	7.77	7.91	8.26	0.32
5405K01	PASADENA PARK #2	68	5.48	7.40	7.48	7.57	7.71	8.20	0.40
5404A01	Plantes Ferry Park monitoring well	27	6.28	6.61	6.77	6.84	6.88	7.10	0.20
5310Q01	monitoring well at SCC	86	7.18	7.89	7.97	8.00	8.08	8.45	0.23
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	71	6.66	7.52	7.65	7.66	7.84	8.05	0.25
5411R03	Sullivan Park South, monitoring well	103	6.36	7.62	7.73	7.80	7.94	8.18	0.31
5411R05s	Springs at Sullivan Park	11	6.54	7.60	7.65	7.77	7.87	8.01	0.40
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	7.62	7.79	7.83	7.84	7.92	7.99	0.11
5322A01	Third & Havana Nested Site, east	82	7.19	7.57	7.72	7.72	7.86	8.49	0.23
5322A03	Third & Havana Nested Site, mid	57	7.28	7.61	7.82	7.89	7.97	8.51	0.26
5212F01s	Three Springs	36	6.33	7.76	7.80	7.81	7.92	8.41	0.34
5505D01	Trent & Barker Road, monitoring well	89	7.07	7.58	7.70	7.71	7.85	8.13	0.20
5307M01	Trinity School, Adams & Carlisle, City monitoring well	57	7.02	7.49	7.76	7.87	8.00	8.37	0.33
5426L03	VERA WATER & POWER, New Well 4	20	7.22	7.56	7.62	7.63	7.72	8.08	0.18
6306P01s	Waikiki Springs	32	6.62	7.64	7.79	7.77	7.95	8.55	0.37
6306P01s2	Waikiki Springs-new location	14	7.41	7.91	7.94	7.99	8.05	8.10	0.18
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	6.28	7.84	7.99	8.10	8.24	8.54	0.39
	TOTAL (ALL SITES)	3037	6.74	7.46	7.69	7.72	7.94	8.60	0.42

Appendix E4. Water Temperature Summary Table

Well ID	Well Name	# Measurements	Summary Statistics (Celcius)						
			Min	Q1	Average	Median	Q3	Max	StDev
5323 E01	6th & Havana monitoring well (MW-2)	78	8.54	12.30	12.74	12.65	13.38	16.40	1.26
5508M01	Barker Road Centennial Trail North, monitoring well	76	3.96	8.09	13.06	13.00	17.33	25.30	5.28
5508M02	Barker Road Centennial Trail South, monitoring well	75	4.73	8.55	12.72	12.10	16.74	20.10	4.29
5507H01	Barker Road north of river, monitoring well	75	4.43	8.18	13.46	12.46	19.80	24.80	6.16
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	47	2.78	11.80	12.19	12.43	13.16	14.70	1.85
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	7.20	11.65	12.36	12.26	13.05	15.40	1.30
5308A02	CITY of SPOKANE-Nevada	50	6.79	11.20	11.72	11.60	12.60	16.70	1.40
5322F01	CITY of SPOKANE-Ray	76	6.67	11.54	11.89	11.80	12.23	17.97	1.65
5308H01	Denver & Marietta, City monitoring well	85	7.14	12.01	12.59	12.90	13.22	19.50	1.42
6436N01	East Valley High School monitoring well	53	8.55	12.80	13.16	13.30	13.88	16.30	1.41
5324G01	E. SPOKANE WTR DIST, Site 1	78	6.11	10.80	11.35	11.25	12.00	16.20	1.67
5507A04	Euclid & Barker monitoring well at CIDS	93	6.31	10.00	10.60	10.60	11.10	21.40	1.63
5312C01	Felts Field City monitoring well	70	9.40	12.73	13.67	13.70	14.78	17.40	1.67
6327N04	Fire Station Houston & Regal, No. Spokane WD	78	8.62	12.81	13.26	13.20	13.73	17.00	1.22
6331J01	Franklin Park, City monitoring well	53	9.28	12.70	13.33	13.30	13.90	17.70	1.26
5409C02	monitoring well Frederick & Bowdish	45	7.54	10.80	11.36	11.30	11.77	17.10	1.43
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	69	7.42	10.88	11.01	11.00	11.20	13.40	0.81
5311J05	Hale's Ale Nested Site, east	106	7.15	10.70	11.28	11.13	12.01	17.10	1.31
5311J07	Hale's Ale Nested Site, mid	58	7.32	10.68	11.23	11.00	11.86	15.20	1.23
6211K01	Spokane Fish Hatchery well	53	5.56	11.00	11.40	11.30	11.70	13.70	1.21
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	5.70	12.58	13.11	13.20	13.96	16.20	1.57
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	78	6.94	10.40	11.03	10.92	11.50	22.10	1.84
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89	6.45	10.09	10.59	10.70	11.20	18.10	1.39
6631M07	Idaho Road - East Farms monitoring well at CID11	108	10.02	12.88	13.73	13.80	14.43	19.50	1.39
5213B01	I.E. COLD STORAGE	56	7.63	12.15	13.90	13.53	15.55	20.80	2.58
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	55	5.56	10.92	12.08	12.10	13.05	17.40	2.16
5517D05	Mission & Barker monitoring well at CID 4	76	8.62	12.68	13.41	13.55	14.30	17.30	1.46
5415 E03	MODERN ELECT WATER, Site 11	30	5.90	10.82	11.17	11.16	11.58	13.60	1.38
5408N01	MODERN ELECT WATER, Site 6	57	6.03	10.43	11.01	10.94	11.70	13.80	1.28
5304G01	NE Community Center, City monitoring well	53	8.42	12.60	13.11	13.00	13.90	15.50	1.22
5417R02	New Balfour Park monitoring well	48	9.50	13.00	13.47	13.70	14.13	16.40	1.39
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	53	5.50	10.80	11.86	11.40	12.90	18.91	2.14
5315L01	Olive & Fiske monitoring well	87	8.80	12.30	12.80	12.70	13.60	17.40	1.37
5312H01	ORCHARD AVE IRRIG DIST, Site 1	49	5.18	10.33	10.74	10.58	11.50	16.90	1.97
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	48	7.24	10.90	13.26	11.85	15.16	20.90	3.46
5405K01	PASADENA PARK #2	70	4.46	9.61	10.43	10.50	11.20	14.80	1.69
5404A01	Plantes Ferry Park monitoring well	27	8.62	12.91	13.17	13.50	13.80	15.40	1.34
5310Q01	monitoring well at SCC	88	8.36	12.48	12.84	12.92	13.35	15.90	1.18
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	73	6.43	10.84	11.37	11.50	11.90	14.50	1.53
5411R03	Sullivan Park South, monitoring well	103	6.96	10.30	11.38	11.50	12.57	16.10	1.70
5411R05s	Springs at Sullivan Park	11	6.01	11.16	11.07	11.43	11.71	13.90	2.18
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	8.50	10.15	10.97	11.04	11.90	12.80	1.39
5322A01	Third & Havana Nested Site, east	84	8.67	12.41	12.88	12.80	13.60	16.10	1.22
5322A03	Third & Havana Nested Site, mid	58	8.42	12.30	12.91	12.70	13.67	16.80	1.20
5212F01s	Three Springs	68	7.77	11.17	11.55	11.56	12.00	15.90	1.08
5505D01	Trent & Barker Road, monitoring well	91	6.80	10.88	11.54	11.59	12.10	21.90	1.66
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	9.15	12.51	13.18	12.90	14.00	19.00	1.39
5426L03	VERA WATER & POWER, New Well 4	21	10.10	10.57	10.76	10.78	10.84	11.60	0.31
6306P01s	Waikiki Springs	61	7.25	10.60	10.76	10.79	10.90	12.80	0.79
6306P01s2	Waikiki Springs-new location	14	10.31	10.70	10.76	10.79	10.95	11.10	0.24
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	5.82	10.70	11.22	11.09	11.70	15.30	1.36
TOTAL (ALL SITES)		3205	7.37	10.90	12.07	12.00	13.27	16.80	2.28

Appendix E5. Calcium (Ca) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	54	0	0	36.70	45.20	47.38	47.45	50.98	55.60	4.49	-281	-2.09	0.0366	decreasing	-0.071
5508M01	Barker Road Centennial Trail North, monitoring well	67	0	0	4.92	5.52	5.95	5.87	6.37	7.56	0.58	318	1.72	0.0862	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	67	0	0	4.77	5.72	6.21	6.13	6.55	12.00	0.95	-86	-0.46	0.6455	stable	
5507H01	Barker Road north of river, monitoring well	66	0	0	4.56	5.81	6.42	6.13	6.84	10.80	1.16	-100	-0.55	0.5837	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	0	0	24.80	26.80	28.69	28.35	30.40	37.90	2.63	-318	-2.65	0.0080	decreasing	-0.062
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	0	0	15.50	18.80	21.27	20.05	21.13	66.60	7.01	-26	-0.20	0.8435	stable	
5308A02	CITY of SPOKANE-Nevada	52	0	0	22.30	26.46	29.20	29.40	32.10	34.40	3.11	-650	-5.12	3.00E-07	decreasing	-0.144
5322F01	CITY of SPOKANE-Ray	54	0	0	38.85	48.05	51.06	51.90	55.18	59.50	5.17	-316	-2.35	0.0188	decreasing	-0.089
5308H01	Denver & Marietta, City monitoring well	61	0	0	20.10	24.60	26.99	26.90	29.30	33.70	3.36	-562	-3.49	0.0005	decreasing	-0.078
6436N01	East Valley High School monitoring well	29	0	0	50.90	60.00	66.11	65.40	73.80	80.80	9.31	-57	-1.05	0.2932	stable	
5324G01	E. SPOKANE WTR DIST, Site 1	54	0	0	19.00	51.60	54.67	56.15	58.93	111.00	11.42	-185	-1.37	0.1698	stable	
5507A04	Euclid & Barker monitoring well at CID5	67	0	0	37.50	41.30	43.51	42.30	44.75	82.00	5.48	-4	-0.02	0.9870	stable	
5312C01	Felts Field City monitoring well	61	0	0	21.90	24.50	27.02	26.90	29.20	34.70	2.88	-507	-3.15	0.0016	decreasing	-0.063
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	0	0	27.30	34.30	36.48	36.20	38.20	46.10	3.34	-36	-0.27	0.7883	stable	
6331J01	Franklin Park, City monitoring well	53	0	0	22.50	26.30	27.63	27.60	28.50	35.60	2.26	-315	-2.41	0.0159	decreasing	-0.042
5409C02	monitoring well Frederick & Bowdish	45	0	0	31.20	34.70	36.22	36.20	37.40	43.10	2.16	-167	-1.63	0.1041	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	0	0	31.90	33.35	34.45	34.75	35.53	36.90	1.49	10	0.22	0.8231	stable	
5311J05	Hale's Ale Nested Site, east	61	0	0	30.80	36.60	37.92	38.10	39.10	45.30	2.24	-219	-1.36	0.1747	stable	
5311J07	Hale's Ale Nested Site, mid	58	0	0	31.30	36.23	37.51	37.40	39.00	46.40	2.40	-178	-1.19	0.2349	stable	
6211K01	Spokane Fish Hatchery well	58	0	0	28.80	31.43	32.50	32.35	33.75	37.50	1.78	-371	-2.48	0.0130	decreasing	-0.036
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	0	0	24.80	27.65	29.13	28.88	30.75	34.40	2.20	-555	-3.92	0.0001	decreasing	-0.071
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	55	0	0	29.85	34.60	36.67	36.00	38.33	66.20	4.88	251	1.82	0.0694	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	64	0	0	20.17	33.58	34.38	34.35	35.73	39.90	2.70	285	1.65	0.0996	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	64	0	0	27.80	30.80	32.59	32.30	33.90	40.70	2.64	-694	-4.02	0.0001	decreasing	-0.041
5213B01	I.E. COLD STORAGE	57	0	0	30.30	35.65	37.90	38.20	39.60	43.80	3.02	-195	-1.30	0.1930	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	0	0	19.30	28.90	31.75	32.40	34.80	39.10	4.90	-77	-0.52	0.6008	stable	
5517D05	Mission & Barker monitoring well at CID 4	67	0	0	10.10	11.65	13.41	12.90	14.80	33.20	3.03	-1357	-7.34	2.09E-13	decreasing	-0.074
5415 E03	MODERN ELECT WATER, Site 11	30	0	0	20.90	23.45	24.51	24.50	25.48	28.80	1.63	-90	-1.59	0.1119	stable	
5408N01	MODERN ELECT WATER, Site 6	58	0	0	25.50	29.80	32.06	32.30	34.20	38.50	2.93	-727	-4.87	1.11E-06	decreasing	-0.114
5304G01	NE Community Center, City monitoring well	53	0	0	27.00	30.80	33.85	33.40	36.80	43.40	4.03	-307	-2.35	0.0189	decreasing	-0.089
5417R02	New Balfour Park monitoring well	23	0	0	23.60	24.58	25.87	25.90	26.85	29.20	1.46	-70	-1.83	0.0675	stable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	0	0	22.50	25.50	26.33	26.15	27.15	30.80	1.53	-361	-2.69	0.0072	decreasing	-0.033
5315L01	Olive & Fiske monitoring well	61	0	0	26.10	28.90	31.49	30.70	34.00	38.90	3.19	-827	-5.14	2.72E-07	decreasing	-0.097
5312H01	ORCHARD AVE IRRIG DIST, Site 1	36	0	0	30.00	37.18	38.07	38.00	39.96	43.00	2.68	-147	-1.99	0.0465	decreasing	-0.050
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	0	0	28.60	36.00	36.65	37.10	38.15	41.10	2.82	63	1.05	0.2914	stable	
5405K01	PASADENA PARK #2	46	0	0	20.10	23.13	24.26	24.20	25.08	28.50	2.03	-151	-1.42	0.1551	stable	
5404A01	Plantas Ferry Park monitoring well	28	0	0	23.30	25.25	25.98	26.15	26.93	28.20	1.26	-48	-0.93	0.3521	stable	
5310Q01	monitoring well at SCC	42	0	0	23.25	26.06	28.47	27.38	29.38	42.10	3.95	-460	-4.98	6.52E-07	decreasing	-0.081
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	46	0	0	39.30	47.55	49.28	48.90	50.78	55.40	2.81	-112	-1.05	0.2928	stable	
5411R03	Sullivan Park South, monitoring well	64	0	0	6.94	25.60	27.17	27.90	29.94	33.60	4.70	-43	-0.24	0.8077	stable	
5411R05s	Springs at Sullivan Park	13	0	0	25.10	27.40	28.85	29.00	30.70	31.80	1.97	29	1.71	0.0870	stable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	0	0	28.20	29.10	29.50	30.00	30.15	30.30	1.14				not applicable	
5322A01	Third & Havana Nested Site, east	60	0	0	30.60	33.40	35.29	34.85	37.53	43.10	2.67	-858	-5.47	4.54E-08	decreasing	-0.092
5322A03	Third & Havana Nested Site, mid	58	0	0	30.00	33.43	35.37	34.85	37.60	43.20	2.74	-758	-5.08	3.76E-07	decreasing	-0.104
5212F01s	Three Springs	24	0	0	32.40	34.88	36.79	36.35	38.83	41.70	2.41	-15	-0.35	0.7283	stable	
5505D01	Trent & Barker Road, monitoring well	65	0	0	39.40	45.50	48.69	48.20	50.70	93.60	6.59	-320	-1.81	0.0709	stable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	0	0	28.40	30.53	32.40	32.45	33.95	37.80	2.20	-669	-4.48	7.36E-06	decreasing	-0.074
5426L03	VERA WATER & POWER, New Well 4	7	0	0	50.60	51.55	53.43	52.50	55.35	57.10	2.58				not applicable	
6306P01s	Waikiki Springs	22	0	0	31.20	34.20	36.51	36.40	38.78	42.50	3.09	108	3.02	0.0025	increasing	0.120
6306P01s2	Waikiki Springs-new location	4	0	0	32.10	32.55	33.05	33.20	33.70	33.70	0.79				not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	0	0	24.20	26.20	27.30	27.10	28.20	31.50	1.50	-467	-3.58	0.0003	decreasing	-0.045
	TOTAL (ALL SITES)	2445	0	0	9.89	26.50	32.20	32.40	37.70	54.50	16.02					

Trend Summary	21	#decreasing
	1	#increasing
	26	#stable
	3	#not applicable

Appendix E6. Chloride (Cl) Summary Table

ID	Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	Secondary (250 mg/L)	State RL (20 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	79	0	0	2.81	9.71	11.66	11.60	12.75	19.10	2.85			961	4.07	4.80E-05	increasing	0.056
5508M01	Barker Road Centennial Trail North, monitoring well	65	0	0	0.65	0.94	1.29	1.27	1.48	2.52	0.44			979	5.54	3.06E-08	increasing	0.013
5508M02	Barker Road Centennial Trail South, monitoring well	65	0	0	0.48	0.88	1.26	1.26	1.49	2.46	0.45			958	5.42	5.99E-08	increasing	0.014
5507H01	Barker Road north of river, monitoring well	64	0	0	0.67	1.13	1.64	1.47	1.86	8.84	1.06			665	3.85	0.0001	increasing	0.014
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	0	0	1.72	2.58	3.19	3.21	3.67	5.60	0.79			790	6.60	4.11E-11	increasing	0.043
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	0	0	1.08	1.78	3.02	2.43	3.20	26.80	3.52		1	803	6.33	2.46E-10	increasing	0.049
5308A02	CITY of SPOKANE-Nevada	52	0	0	2.27	3.26	4.07	4.15	4.97	5.77	1.00			588	4.63	3.61E-06	increasing	0.042
5322F01	CITY of SPOKANE-Ray	79	0	0	3.82	12.40	15.43	15.00	18.10	26.10	4.41		11	1665	7.05	1.85E-12	increasing	0.126
5308H01	Denver & Marietta, City monitoring well	85	0	0	1.78	3.33	4.21	4.14	5.00	7.31	1.18			2019	7.66	1.87E-14	increasing	0.036
6436N01	East Valley High School monitoring well	54	0	0	3.90	7.29	10.56	10.25	12.00	26.40	4.45		3	462	3.44	0.0006	increasing	0.097
5324G01	E. SPOKANE WTR DIST, Site 1	80	0	0	4.07	14.48	15.88	16.10	17.60	27.70	3.88		7	555	2.30	0.0213	increasing	0.031
5507A04	Euclid & Barker monitoring well at CID5	90	0	0	0.96	1.56	2.08	2.20	2.38	4.62	0.61			2220	7.74	1.03E-14	increasing	0.016
5312C01	Felts Field City monitoring well	61	0	0	1.39	2.32	2.59	2.64	2.89	3.60	0.49			579	3.60	0.0003	increasing	0.011
6327N04	Fire Station Houston & Regal, No. Spokane WD	78	0	0	3.12	9.19	11.37	11.15	13.28	18.80	3.41			980	4.22	2.40E-05	increasing	0.072
6331J01	Franklin Park, City monitoring well	53	0	0	1.75	2.70	3.47	3.13	4.06	9.26	1.26			613	4.70	2.66E-06	increasing	0.039
5409C02	monitoring well Frederick & Bowdish	45	0	0	1.39	2.58	3.12	3.05	3.47	5.92	0.91			448	4.37	1.22E-05	increasing	0.036
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	50	0	0	6.14	7.79	8.46	8.25	9.19	11.00	1.08			634	5.30	1.18E-07	increasing	0.041
5311J05	Hale's Ale Nested Site, east	87	0	0	2.09	3.79	5.15	5.24	6.17	9.10	1.71			2258	8.27	1.29E-16	increasing	0.042
5311J07	Hale's Ale Nested Site, mid	58	0	0	2.10	3.31	4.53	4.26	5.60	8.26	1.54			1068	7.16	8.19E-13	increasing	0.074
6211K01	Spokane Fish Hatchery well	58	0	0	2.93	4.76	5.66	5.75	6.66	8.26	1.14			736	4.93	8.20E-07	increasing	0.046
6330J01	Holy Cross, Rhoades & Washington monitoring well	55	0	0	1.80	3.18	3.81	3.84	4.27	6.00	0.87			520	3.77	0.0002	increasing	0.023
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	78	0	0	1.40	2.11	2.80	2.77	3.34	4.56	0.83			1874	8.08	6.39E-16	increasing	0.030
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89	0	0	0.75	1.27	1.71	1.67	2.06	3.29	0.53			2197	7.78	7.05E-15	increasing	0.014
6631M07	Idaho Road - East Farms monitoring well at CID11	89	0	0	1.67	2.78	3.55	3.53	4.11	5.54	0.90			2764	9.79	1.21E-22	increasing	0.030
5213B01	I.E. COLD STORAGE	58	0	0	8.99	14.33	17.89	17.55	19.85	39.70	5.87		14	961	6.44	1.19E-10	increasing	0.212
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	0	0	1.16	2.21	3.14	2.82	4.15	6.26	1.18			927	6.38	1.83E-10	increasing	0.057
5517D05	Mission & Barker monitoring well at CID 4	65	0	0	1.06	1.31	1.63	1.56	1.83	2.99	0.42			965	5.46	4.79E-08	increasing	0.012
5415 E03	MODERN ELECT WATER, Site 11	30	0	0	1.86	2.50	2.84	2.75	3.06	4.16	0.54			129	2.28	0.0223	increasing	0.029
5408N01	MODERN ELECT WATER, Site 6	58	1	1.72	0.00	2.52	3.13	3.23	3.60	6.42	0.94			633	4.24	2.24E-05	increasing	0.026
5304G01	NE Community Center, City monitoring well	53	0	0	2.65	3.67	5.56	5.55	6.66	15.50	2.31			311	2.38	0.0174	increasing	0.041
5417R02	New Balfour Park monitoring well	48	0	0	3.23	3.50	4.08	3.80	4.31	8.46	0.95			299	2.65	0.0081	increasing	0.018
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	0	0	3.59	5.20	6.11	5.86	6.91	11.00	1.42			-145	-1.07	0.2826	stable	
5315L01	Olive & Fiske monitoring well	87	0	0	1.40	4.20	6.69	5.91	8.26	18.60	3.26			924	3.38	0.0007	increasing	0.034
5312H01	ORCHARD AVE IRRIG DIST, Site 1	49	0	0	2.37	3.46	4.38	4.44	4.82	7.61	1.23			639	5.50	3.79E-08	increasing	0.060
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	44	0	0	2.23	3.51	4.38	4.32	4.81	7.75	1.31			546	5.51	3.53E-08	increasing	0.069
5405K01	PASADENA PARK #2	70	0	0	1.89	3.10	3.71	3.52	4.27	7.36	0.94			583	2.95	0.0032	increasing	0.015
5404A01	Plantes Ferry Park monitoring well	28	0	0	1.75	1.93	2.21	2.16	2.43	2.90	0.32			-83	-1.62	0.1050	stable	
5310Q01	monitoring well at SCC	68	0	0	1.40	3.49	4.34	3.92	4.81	12.20	1.65			600	3.17	0.0015	increasing	0.019
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	73	1	1.37	0.00	6.26	7.94	8.43	9.49	16.80	2.37			1561	7.43	1.09E-13	increasing	0.078
5411R03	Sullivan Park South, monitoring well	84	0	0	0.82	1.72	2.34	2.30	2.79	5.40	0.81			1967	7.60	3.06E-14	increasing	0.020
5411R05	Springs at Sullivan Park	13	0	0	1.99	2.19	2.51	2.48	2.85	3.09	0.39			22	1.28	0.2001	stable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	0	0	2.06	2.74	2.95	2.92	3.03	4.41	0.56			-10	-0.62	0.5371	stable	
5322A01	Third & Havana Nested Site, east	83	0	0	1.41	5.64	7.15	6.76	8.00	16.70	2.20			1312	5.16	2.52E-07	increasing	0.039
5322A03	Third & Havana Nested Site, mid	57	0	0	2.09	5.79	6.49	6.44	7.03	10.20	1.26			446	3.06	0.0022	increasing	0.027
5212F01s	Three Springs	50	0	0	7.34	9.74	11.05	11.00	11.80	18.00	2.11			393	3.28	0.0010	increasing	0.067
5505D01	Trent & Barker Road, monitoring well	91	0	0	2.45	4.16	5.14	5.11	6.08	7.68	1.20			2735	9.37	7.02E-21	increasing	0.038
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	0	0	2.46	3.83	4.92	5.14	5.85	8.00	1.32			1043	6.99	2.75E-12	increasing	0.061
5426L03	VERA WATER & POWER, New Well 4	21	0	0	8.46	9.89	11.05	10.80	11.50	20.00	2.30			91	2.72	0.0064	increasing	0.109
6306P01s	Waikiki Springs	44	0	0	6.78	11.20	12.50	12.15	13.73	20.90	2.66		1	405	4.09	4.32E-05	increasing	0.108
6306P01s2	Waikiki Springs-new location	14	0	0	6.23	7.43	7.98	7.63	8.52	11.10	1.21			25	1.31	0.1889	stable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	0	0	1.76	2.51	3.14	3.31	3.53	4.95	0.75			578	4.43	9.53E-06	increasing	0.026
TOTAL (ALL SITES)		3038	2	0.07	0.00	2.59	5.54	4.09	7.12	13.90	4.57	0	38					

Trend Summary	0	#decreasing
	46	#increasing
	5	#stable
	0	#not applicable

Appendix E7. Fluoride (F) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (4 mg/L)	State RL (0.2 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	51	48	94.1	0	0	0.0084	0	0	0.2040	0.0356		1				not applicable	
5508M01	Barker Road Centennial Trail North, monitoring well	53	52	98.1	0	0	0.0024	0	0	0.1270	0.0174						not applicable	
5508M02	Barker Road Centennial Trail South, monitoring well	53	52	98.1	0	0	0.0060	0	0	0.3180	0.0437		1				not applicable	
5507H01	Barker Road north of river, monitoring well	52	51	98.1	0	0	0.0023	0	0	0.1210	0.0168						not applicable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	48	46	95.8	0	0	0.0131	0	0	0.4710	0.0713		1				not applicable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	50	48	96.0	0	0	0.0059	0	0	0.1850	0.0302						not applicable	
5308A02	CITY of SPOKANE-Nevada	50	45	90.0	0	0	0.0251	0	0	0.7100	0.1063		2				not applicable	
5322F01	CITY of SPOKANE-Ray	52	47	90.4	0	0	0.0126	0	0	0.1700	0.0400						not applicable	
5308H01	Denver & Marietta, City monitoring well	52	45	86.5	0	0	0.0286	0	0	0.6520	0.1006		2				not applicable	
6436N01	East Valley High School monitoring well	29	14	48.3	0	0	0.0692	0.1000	0.1225	0.2330	0.0724		1				not applicable	
5324G01	E. SPOKANE WTR DIST, Site 1	50	41	82.0	0	0	0.0196	0	0	0.1180	0.0423						not applicable	
5507A04	Euclid & Barker monitoring well at CID5	53	48	90.6	0	0	0.0101	0	0	0.1360	0.0320						not applicable	
5312C01	Felts Field City monitoring well	52	49	94.2	0	0	0.0083	0	0	0.1970	0.0351						not applicable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	48	40	83.3	0	0	0.0222	0	0	0.1760	0.0511						not applicable	
6331J01	Franklin Park, City monitoring well	48	47	97.9	0	0	0.0035	0	0	0.1670	0.0241						not applicable	
5409C02	monitoring well Frederick & Bowdish	45	42	93.3	0	0	0.0080	0	0	0.1300	0.0302						not applicable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	17	70.8	0	0	0.0560	0	0.1038	0.3580	0.1014		3				not applicable	
5311J05	Hale's Ale Nested Site, east	52	51	98.1	0	0	0.0025	0	0	0.1300	0.0180						not applicable	
5311J07	Hale's Ale Nested Site, mid	52	50	96.2	0	0	0.0046	0	0	0.1300	0.0232						not applicable	
6211K01	Spokane Fish Hatchery well	54	50	92.6	0	0	0.0130	0	0	0.3070	0.0511		1				not applicable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	50	47	94.0	0	0	0.0122	0	0	0.2910	0.0513		1				not applicable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	50	47	94.0	0	0	0.0063	0	0	0.1585	0.0276						not applicable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	51	44	86.3	0	0	0.0157	0	0	0.1420	0.0401						not applicable	
6631M07	Idaho Road - East Farms monitoring well at CID11	52	50	96.2	0	0	0.0046	0	0	0.1390	0.0235						not applicable	
5213B01	I.E. COLD STORAGE	54	42	77.8	0	0	0.0307	0	0	0.3070	0.0643		2				not applicable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	53	35	66.0	0	0	0.0404	0	0.1020	0.2070	0.0601		1				not applicable	
5517D05	Mission & Barker monitoring well at CID 4	53	52	98.1	0	0	0.0062	0	0	0.3270	0.0449		1				not applicable	
5415 E03	MODERN ELECT WATER, Site 11	30	27	90.0	0	0	0.0311	0	0	0.6970	0.1293		1				not applicable	
5408N01	MODERN ELECT WATER, Site 6	54	49	90.7	0	0	0.0098	0	0	0.1260	0.0312						not applicable	
5304G01	NE Community Center, City monitoring well	48	27	56.3	0	0	0.0644	0	0.1155	0.2480	0.0807		5				not applicable	
5417R02	New Balfour Park monitoring well	23	18	78.3	0	0	0.0286	0	0	0.2230	0.0597		1				not applicable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	50	40	80.0	0	0	0.0266	0	0	0.1960	0.0561						not applicable	
5315L01	Olive & Fiske monitoring well	52	48	92.3	0	0	0.0105	0	0	0.1810	0.0375						not applicable	
5312H01	ORCHARD AVE IRRIG DIST, Site 1	33	28	84.8	0	0	0.0166	0	0	0.1380	0.0402						not applicable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	30	28	93.3	0	0	0.0076	0	0	0.1170	0.0288						not applicable	
5405K01	PASADENA PARK #2	46	44	95.7	0	0	0.0178	0	0	0.7180	0.1066		1				not applicable	
5404A01	Plantes Ferry Park monitoring well	28	0	0.0	0.151	0.2745	0.3033	0.2963	0.3243	0.4800	0.0682		26	-82	-1.6	0.1094	stable	
5310Q01	monitoring well at SCC	42	39	92.9	0	0	0.0097	0	0	0.2175	0.0398		1				not applicable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	45	95.7	0	0	0.0050	0	0	0.1200	0.0240						not applicable	
5411R03	Sullivan Park South, monitoring well	51	48	94.1	0	0	0.0068	0	0	0.1250	0.0277						not applicable	
5411R05s	Springs at Sullivan Park	13	10	76.9	0	0	0.0265	0	0	0.1190	0.0503						not applicable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.0	0	0	0.0000	0	0	0.0000	0.0000						not applicable	
5322A01	Third & Havana Nested Site, east	53	50	94.3	0	0	0.0075	0	0	0.1540	0.0310						not applicable	
5322A03	Third & Havana Nested Site, mid	52	48	92.3	0	0	0.0119	0	0	0.2720	0.0459		1				not applicable	
5212F01s	Three Springs	24	16	66.7	0	0	0.0498	0	0.1065	0.2730	0.0786		1				not applicable	
5505D01	Trent & Barker Road, monitoring well	53	43	81.1	0	0	0.0244	0	0	0.2360	0.0539		1				not applicable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	52	47	90.4	0	0	0.0138	0	0	0.2490	0.0460		1				not applicable	
5426L03	VERA WATER & POWER, New Well 4	7	2	28.6	0	0.0505	0.0770	0.1040	0.1070	0.1200	0.0530						not applicable	
6306P01s	Waikiki Springs	22	17	77.3	0	0	0.0412	0	0	0.3860	0.0929		1				not applicable	
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0.0000	0	0	0.0000	0.0000						not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	50	46	92.0	0	0	0.0144	0	0	0.3000	0.0534		1				not applicable	
TOTAL (ALL SITES)		2198	1927	87.7	0	0	0.0000	0	0	0.0000	0.0642	0	58					

Trend Summary	0	#decreasing
	0	#increasing
	1	#stable
	50	#not applicable

Appendix E8. Magnesium (Mg) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	54	0	0	12.60	15.28	16.44	16.55	17.43	19.70	1.73	-407	-3.03	0.0024	decreasing	-0.046
5508M01	Barker Road Centennial Trail North, monitoring well	67	0	0	1.45	1.60	1.72	1.71	1.80	2.14	0.18	89	0.48	0.6336	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	67	0	0	1.39	1.65	1.84	1.76	1.93	4.28	0.42	-239	-1.29	0.1976	stable	
5507H01	Barker Road north of river, monitoring well	66	0	0	1.35	1.69	1.94	1.86	2.09	3.42	0.41	-224	-1.23	0.2170	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	0	0	11.30	12.03	12.98	12.85	13.70	17.10	1.15	-403	-3.37	0.0008	decreasing	-0.033
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	0	0	3.79	4.63	5.31	4.92	5.27	18.90	2.16	-49	-0.38	0.7047	stable	
5308A02	CITY of SPOKANE-Nevada	52	0	0	7.93	9.47	10.27	10.10	11.23	12.20	1.05	-680	-5.36	8.33E-08	decreasing	-0.050
5322F01	CITY of SPOKANE-Ray	54	0	0	12.90	15.83	16.88	17.05	18.00	20.20	1.77	-477	-3.55	0.0004	decreasing	-0.055
5308H01	Denver & Marietta, City monitoring well	61	0	0	7.23	8.72	9.58	9.47	10.40	12.10	1.16	-474	-2.95	0.0032	decreasing	-0.027
6436N01	East Valley High School monitoring well	29	0	0	20.10	25.20	28.90	28.90	33.80	38.10	5.56	-55	-1.01	0.3108	stable	
5324G01	E. SPOKANE WTR DIST, Site 1	54	0	0	10.40	16.90	18.17	18.35	19.15	34.10	3.12	-117	-0.87	0.3865	stable	
5507A04	Euclid & Barker monitoring well at CID5	67	0	0	13.80	17.90	18.84	18.50	19.40	35.80	2.45	-192	-1.03	0.3010	stable	
5312C01	Felts Field City monitoring well	61	0	0	6.05	6.73	7.33	7.14	7.98	9.36	0.77	-496	-3.08	0.0021	decreasing	-0.017
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	0	0	18.80	22.20	25.12	25.35	27.20	38.10	3.77	-243	-1.86	0.0634	stable	
6331J01	Franklin Park, City monitoring well	53	0	0	11.10	12.80	13.45	13.40	14.00	16.70	1.10	-331	-2.53	0.0113	decreasing	-0.024
5409C02	monitoring well Frederick & Bowdish	45	0	0	12.20	12.90	13.52	13.50	14.00	15.90	0.81	-224	-2.19	0.0289	decreasing	-0.022
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	0	0	17.00	17.93	18.27	18.20	18.65	19.40	0.66	14	0.32	0.7459	stable	
5311J05	Hale's Ale Nested Site, east	61	0	0	14.00	16.60	17.20	17.10	18.10	20.70	1.17	-383	-2.38	0.0173	decreasing	-0.018
5311J07	Hale's Ale Nested Site, mid	58	0	0	11.30	16.63	17.27	17.35	18.15	21.50	1.43	-374	-2.50	0.0123	decreasing	-0.023
6211K01	Spokane Fish Hatchery well	58	0	0	15.70	16.60	17.26	17.00	17.75	20.00	0.95	-341	-2.28	0.0223	decreasing	-0.014
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	0	0	13.30	14.68	15.60	15.50	16.43	18.10	1.18	-522	-3.69	0.0002	decreasing	-0.035
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	55	0	0	12.55	14.00	15.21	14.90	15.98	28.10	2.11	-85	-0.61	0.5415	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	64	0	0	15.20	16.80	17.39	17.50	18.03	19.60	0.94	-245	-1.42	0.1570	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	64	0	0	12.40	13.68	14.64	14.45	15.53	18.10	1.34	-886	-5.13	2.86E-07	decreasing	-0.040
5213801	I.E. COLD STORAGE	57	0	0	10.50	11.90	12.53	12.70	13.20	14.90	1.03	-261	-1.75	0.0808	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	0	0	4.69	9.37	10.21	10.70	11.60	13.00	1.98	96	0.65	0.5129	stable	
5517D05	Mission & Barker monitoring well at CID 4	67	0	0	3.38	3.91	4.70	4.59	5.25	11.60	1.15	-1476	-7.98	1.43E-15	decreasing	-0.035
5415 E03	MODERN ELECT WATER, Site 11	30	0	0	9.13	10.05	10.48	10.30	11.00	12.50	0.73	-151	-2.69	0.0072	decreasing	-0.038
5408N01	MODERN ELECT WATER, Site 6	58	0	0	8.68	13.00	13.95	14.00	15.20	17.00	1.77	-598	-4.01	0.0001	decreasing	-0.050
5304G01	NE Community Center, City monitoring well	53	0	0	11.40	13.35	14.56	14.50	15.60	18.10	1.71	-152	-1.16	0.2463	stable	
5417R02	New Balfour Park monitoring well	23	0	0	6.93	7.78	8.07	7.98	8.58	8.75	0.49	-87	-2.27	0.0231	decreasing	-0.039
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	0	0	10.10	11.20	11.70	11.45	12.00	16.00	0.96	-296	-2.21	0.0274	decreasing	-0.013
5315L01	Olive & Fiske monitoring well	61	0	0	9.06	10.10	10.67	10.50	11.20	13.00	0.91	-558	-3.47	0.0005	decreasing	-0.023
5312H01	ORCHARD AVE IRRIG DIST, Site 1	36	0	0	11.20	13.65	14.51	14.45	15.41	16.70	1.25	-332	-4.51	6.39E-06	decreasing	-0.080
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	0	0	8.52	14.10	14.94	15.10	16.30	17.00	1.70	-109	-1.84	0.0661	stable	
5405K01	PASADENA PARK #2	46	0	0	6.30	7.36	7.80	7.75	8.14	9.31	0.68	-194	-1.83	0.0676	stable	
5404A01	Plantas Ferry Park monitoring well	28	0	0	12.20	12.98	13.26	13.28	13.50	14.30	0.45	87	1.71	0.0872	stable	
5310Q01	monitoring well at SCC	42	0	0	7.93	9.03	10.15	9.51	10.68	19.80	2.04	-577	-6.25	4.23E-10	decreasing	-0.081
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	46	0	0	14.40	17.03	17.77	17.68	18.64	19.70	1.06	1	0.00	1.0000	stable	
5411R03	Sullivan Park South, monitoring well	64	0	0	2.91	11.38	12.01	12.25	13.16	15.60	2.16	-276	-1.59	0.1109	stable	
5411R05s	Springs at Sullivan Park	13	0	0	10.10	11.90	12.32	12.30	13.00	13.40	0.93	32	1.90	0.0576	stable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	0	0	12.60	12.95	13.33	13.30	13.70	14.10	0.75				not applicable	
5322A01	Third & Havana Nested Site, east	60	0	0	10.20	10.80	11.81	11.60	12.90	14.20	1.10	-894	-5.71	1.15E-08	decreasing	-0.046
5322A03	Third & Havana Nested Site, mid	58	0	0	10.40	11.03	11.96	11.80	12.80	14.70	1.07	-754	-5.06	4.22E-07	decreasing	-0.042
5212F01s	Three Springs	24	0	0	12.20	12.60	13.29	13.05	13.78	15.40	0.83	-26	-0.62	0.5332	stable	
5505D01	Trent & Barker Road, monitoring well	65	0	0	10.60	13.60	14.44	14.20	15.00	27.80	2.11	-519	-2.93	0.0033	decreasing	-0.023
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	0	0	9.59	10.53	11.22	11.05	11.88	13.50	0.86	-594	-3.98	0.0001	decreasing	-0.025
5426L03	VERA WATER & POWER, New Well 4	7	0	0	13.80	14.25	14.76	14.40	15.30	16.00	0.84				not applicable	
6306P01s	Waikiki Springs	22	0	0	17.90	19.38	21.04	21.45	22.18	25.20	1.86	126	3.53	0.0004	increasing	0.233
6306P01s2	Waikiki Springs-new location	4	0	0	18.60	18.75	19.05	19.00	19.30	19.60	0.44				not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	0	0	13.60	14.60	15.18	14.90	15.70	18.20	0.93	-558	-4.28	1.86E-05	decreasing	-0.027
TOTAL (ALL SITES)		2445	0	0	1.35	10.20	13.34	13.20	16.40	25.55	7.57					
												Trend Summary	26	#decreasing		
													1	#increasing		
													21	#stable		
													3	#not applicable		

Appendix E9. Potassium (K) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	54	0	0	2.12	2.55	2.74	2.715	2.925	3.34	0.27	-266	-1.98	0.0480	decreasing	-0.005
5508M01	Barker Road Centennial Trail North, monitoring well	65	2	3.08	0.00	0.62	0.94	0.84	1.03	3.00	0.50	-17	-0.09	0.9278	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	66	0	0	0.55	0.71	0.95	0.845	0.99	2.00	0.38	-249	-1.37	0.1696	stable	
5507H01	Barker Road north of river, monitoring well	64	0	0	0.54	0.70	0.99	0.9	1.0775	2.00	0.39	-150	-0.86	0.3877	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	0	0	1.64	1.98	2.08	2.035	2.1825	2.68	0.19	-214	-1.78	0.0745	stable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	1	1.92	0.00	1.14	1.32	1.22	1.3725	3.49	0.46	16	0.12	0.9057	stable	
5308A02	CITY of SPOKANE-Nevada	51	1	1.96	0.00	1.59	1.66	1.68	1.79	2.08	0.33	-430	-3.49	0.0005	decreasing	-0.005
5322F01	CITY of SPOKANE-Ray	53	0	0	2.34	2.69	2.84	2.89	2.98	3.35	0.24	-223	-1.70	0.0884	stable	
5308H01	Denver & Marietta, City monitoring well	59	0	0	0.50	1.56	1.71	1.69	1.865	2.47	0.28	-444	-2.90	0.0037	decreasing	-0.005
6436N01	East Valley High School monitoring well	29	0	0	3.31	3.81	4.08	4	4.46	4.96	0.41	-85	-1.58	0.1150	stable	
5324G01	E. SPOKANE WTR DIST, Site 1	53	0	0	1.82	2.79	3.12	3.1	3.39	6.21	0.61	-37	-0.28	0.7823	stable	
5507A04	Euclid & Barker monitoring well at CID5	66	0	0	1.15	2.03	2.18	2.14	2.3075	4.04	0.34	-64	-0.35	0.7272	stable	
5312C01	Felts Field City monitoring well	59	0	0	1.26	1.44	1.58	1.54	1.65	2.21	0.20	-408	-2.66	0.0077	decreasing	-0.003
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	0	0	2.83	3.44	3.72	3.7	3.97	4.92	0.45	-135	-1.03	0.3038	stable	
6331J01	Franklin Park, City monitoring well	52	0	0	0.50	1.70	1.82	1.785	2	2.94	0.32	-368	-2.90	0.0037	decreasing	-0.007
5409C02	monitoring well Frederick & Bowdish	45	0	0	1.74	1.86	1.98	1.92	2.08	2.49	0.17	-339	-3.31	0.0009	decreasing	-0.005
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	0	0	2.08	2.24	2.34	2.335	2.4275	2.62	0.12	6	0.12	0.9010	stable	
5311J05	Hale's Ale Nested Site, east	59	0	0	1.68	2.08	2.22	2.16	2.26	4.16	0.35	-180	-1.17	0.2413	stable	
5311J07	Hale's Ale Nested Site, mid	56	0	0	1.75	2.05	2.17	2.135	2.27	2.80	0.18	9	0.06	0.9549	stable	
6211K01	Spokane Fish Hatchery well	57	0	0	1.84	2.05	2.17	2.13	2.27	2.74	0.18	36	0.24	0.8095	stable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	55	0	0	1.64	1.82	1.92	1.89	2.005	2.37	0.17	-341	-2.47	0.0135	decreasing	-0.004
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	54	0	0	1.76	2.00	2.15	2.11	2.2275	3.94	0.31	-102	-0.75	0.4508	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	63	0	0	1.60	1.91	2.03	2	2.115	2.75	0.19	-320	-1.89	0.0583	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	63	0	0	1.88	2.12	2.29	2.24	2.45	2.86	0.23	-557	-3.30	0.0010	decreasing	-0.005
5213B01	I.E. COLD STORAGE	57	0	0	2.09	2.34	2.47	2.43	2.64	3.05	0.22	14	0.09	0.9304	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	1	1.75	0.00	1.68	1.84	1.94	2.07	2.40	0.40	108	0.74	0.4612	stable	
5517D05	Mission & Barker monitoring well at CID 4	66	0	0	0.70	1.05	1.25	1.14	1.3825	2.44	0.33	-715	-3.96	0.0001	decreasing	-0.005
5415 E03	MODERN ELECT WATER, Site 11	30	0	0	1.43	1.56	1.62	1.62	1.67	1.88	0.09	108	1.91	0.0556	stable	
5408N01	MODERN ELECT WATER, Site 6	57	0	0	1.13	1.84	1.93	1.91	2.05	2.31	0.19	-446	-3.07	0.0022	decreasing	-0.004
5304G01	NE Community Center, City monitoring well	52	0	0	1.71	1.95	2.05	2.02	2.1225	2.60	0.18	-236	-1.86	0.0634	stable	
5417R02	New Balfour Park monitoring well	23	0	0	1.41	1.52	1.57	1.55	1.58	2.06	0.13	-43	-1.11	0.2649	stable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	0	0	1.64	2.10	2.22	2.18	2.33	2.81	0.21	-147	-1.09	0.2757	stable	
5315L01	Olive & Fiske monitoring well	60	0	0	1.35	1.73	1.89	1.835	2.0325	2.59	0.24	-693	-4.42	1.01E-05	decreasing	-0.007
5312H01	ORCHARD AVE IRRIG DIST, Site 1	34	0	0	1.80	2.05	2.16	2.15	2.26	2.49	0.18	102	1.50	0.1340	stable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	30	0	0	1.74	2.11	2.19	2.2	2.3075	2.47	0.18	80	1.41	0.1583	stable	
5405K01	PASADENA PARK #2	44	0	0	1.74	1.91	2.02	2	2.13	2.39	0.16	-9	-0.08	0.9355	stable	
5404A01	Plantess Ferry Park monitoring well	28	0	0	4.92	5.17	5.34	5.34	5.5025	5.75	0.22	179	3.52	0.0004	increasing	0.019
5310Q01	monitoring well at SCC	42	0	0	0.50	1.59	1.72	1.675	1.83	2.51	0.29	-346	-3.74	0.0002	decreasing	-0.009
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	42	0	0	2.00	2.55	2.66	2.64	2.8325	3.24	0.25	200	2.16	0.0309	increasing	0.007
5411R03	Sullivan Park South, monitoring well	63	0	0	0.83	1.59	1.72	1.75	1.875	2.38	0.26	73	0.43	0.6691	stable	
5411R05s	Springs at Sullivan Park	13	0	0	1.77	1.80	1.87	1.87	1.94	1.98	0.07	50	3.00	0.0027	increasing	0.017
5411R06	Sullivan Road and Krispy Krems, monitoring well	3	0	0	1.83	1.84	1.85	1.85	1.865	1.88	0.03				not applicable	
5322A01	Third & Havana Nested Site, east	59	0	0	1.70	1.90	2.04	2.01	2.125	2.69	0.20	-541	-3.53	0.0004	decreasing	-0.005
5322A03	Third & Havana Nested Site, mid	57	0	0	1.80	1.94	2.07	2.02	2.15	2.66	0.19	-564	-3.88	0.0001	decreasing	-0.005
5212F01s	Three Springs	24	0	0	1.98	2.06	2.18	2.155	2.28	2.52	0.14	-2	-0.02	0.9802	stable	
5505D01	Trent & Barker Road, monitoring well	64	0	0	1.94	2.30	2.50	2.43	2.61	4.67	0.38	47	0.27	0.7897	stable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	56	0	0	0.50	1.73	1.84	1.81	1.9775	2.31	0.25	-130	-0.91	0.3614	stable	
5426L03	VERA WATER & POWER, New Well 4	7	0	0	3.03	3.14	3.25	3.3	3.375	3.38	0.15				not applicable	
6306P01s	Waikiki Springs	22	0	0	2.31	2.48	2.59	2.59	2.67	2.89	0.16	40	1.10	0.2705	stable	
6306P01s2	Waikiki Springs-new location	4	0	0	2.40	2.42	2.45	2.425	2.455	2.53	0.06				not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	1	1.89	0.00	1.76	1.83	1.85	1.94	2.53	0.32	-89	-0.68	0.4993	stable	
TOTAL (ALL SITES)		2403	6	0.25	0.89	1.74	2.02	2.01	2.31	3.16	6.39					

Trend Summary	14	#decreasing
	3	#increasing
	31	#stable
	3	#not applicable

Appendix E10. Sodium (Na) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	55	0	0	5.71	7.44	8.35	8.14	9.25	11.30	1.28	-580	-4.20	2.62E-05	decreasing	-0.046
5508M01	Barker Road Centennial Trail North, monitoring well	67	0	0	1.40	1.71	1.97	1.87	2.07	3.07	0.39	481	2.60	0.0094	increasing	0.004
5508M02	Barker Road Centennial Trail South, monitoring well	67	0	0	1.39	1.71	2.01	1.90	2.10	3.92	0.46	415	2.24	0.0250	increasing	0.004
5507H01	Barker Road north of river, monitoring well	66	0	0	1.35	1.84	2.14	2.07	2.33	3.56	0.46	165	0.91	0.3639	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	0	0	2.47	2.68	2.94	2.80	2.91	5.46	0.52	-219	-1.82	0.0680	stable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	0	0	1.82	2.10	2.51	2.21	2.47	9.92	1.16	-61	-0.47	0.6358	stable	
5308A02	CITY of SPOKANE-Nevada	52	0	0	2.57	2.86	3.14	3.14	3.27	4.58	0.41	-410	-3.23	0.0012	decreasing	-0.010
5322F01	CITY of SPOKANE-Ray	54	0	0	6.25	8.59	9.33	9.38	10.20	11.70	1.34	-377	-2.81	0.0050	decreasing	-0.034
5308H01	Denver & Marietta, City monitoring well	61	0	0	2.15	2.87	3.24	3.12	3.41	6.59	0.64	101	0.62	0.5337	stable	
6436N01	East Valley High School monitoring well	29	0	0	6.91	8.70	9.42	9.46	10.10	11.90	1.19	80	1.48	0.1382	stable	
5324G01	E. SPOKANE WTR DIST, Site 1	54	0	0	4.01	9.66	11.20	10.90	12.58	27.20	3.29	-411	-3.06	0.0022	decreasing	-0.061
5507A04	Euclid & Barker monitoring well at CID5	67	0	0	2.11	3.05	3.29	3.18	3.30	7.01	0.60	-126	-0.68	0.4985	stable	
5312C01	Felts Field City monitoring well	61	0	0	2.42	3.26	3.57	3.54	3.82	5.94	0.54	-397	-2.47	0.0137	decreasing	-0.008
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	0	0	8.18	10.10	12.19	11.80	13.70	20.60	2.70	-262	-2.00	0.0452	decreasing	-0.050
6331J01	Franklin Park, City monitoring well	53	0	0	2.58	2.87	3.11	3.03	3.16	4.41	0.38	-146	-1.11	0.2656	stable	
5409C02	monitoring well Frederick & Bowdish	45	0	0	3.05	3.63	3.84	3.72	3.88	5.58	0.46	101	0.98	0.3276	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	0	0	4.18	4.35	4.51	4.52	4.68	4.87	0.22	29	0.69	0.4872	stable	
5311J05	Hale's Ale Nested Site, east	61	0	0	2.68	3.95	4.22	4.24	4.51	5.97	0.52	282	1.75	0.0803	stable	
5311J07	Hale's Ale Nested Site, mid	58	0	0	2.58	3.90	4.17	4.17	4.49	5.80	0.49	146	0.97	0.3305	stable	
6211K01	Spokane Fish Hatchery well	58	0	0	3.54	3.98	4.32	4.15	4.56	5.94	0.55	-679	-4.55	5.39E-06	decreasing	-0.014
6330J01	Holy Cross, Rhoades & Washington monitoring wel	56	0	0	2.71	3.25	3.51	3.38	3.63	5.18	0.43	-365	-2.57	0.0100	decreasing	-0.006
6524R01	Idaho Road 1000 ft south of Trent, monitoring wel	55	0	0	2.26	3.21	3.47	3.34	3.50	7.50	0.68	-118	-0.85	0.3954	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring wel	64	0	0	2.03	2.93	3.10	3.04	3.13	4.56	0.36	-261	-1.51	0.1318	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	64	0	0	2.35	2.80	2.97	2.91	3.00	4.25	0.35	-167	-0.96	0.3359	stable	
5213B01	I.E. COLD STORAGE	57	0	0	6.89	7.66	8.48	8.07	8.69	13.20	1.25	-92	-0.61	0.5415	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	0	0	2.08	3.52	4.35	4.48	5.11	6.47	0.98	-116	-0.79	0.4285	stable	
5517D05	Mission & Barker monitoring well at CID 4	67	0	0	1.43	1.97	2.21	2.08	2.27	5.56	0.55	-340	-1.84	0.0665	stable	
5415 E03	MODERN ELECT WATER, Site 11	30	0	0	2.15	2.38	2.48	2.48	2.56	2.91	0.16	64	1.13	0.2605	stable	
5408N01	MODERN ELECT WATER, Site 6	58	0	0	2.65	2.98	3.36	3.16	3.69	4.84	0.54	-816	-5.47	4.55E-08	decreasing	-0.019
5304G01	NE Community Center, City monitoring well	53	0	0	3.41	4.33	4.92	4.82	5.20	7.10	0.82	104	0.79	0.4294	stable	
5417R02	New Balfour Park monitoring well	23	0	0	2.45	2.54	2.69	2.68	2.77	3.09	0.18	10	0.24	0.8118	stable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	0	0	3.66	4.55	4.90	4.90	5.17	6.41	0.55	-111	-0.82	0.4118	stable	
5315L01	Olive & Fiske monitoring well	61	0	0	2.66	3.26	3.96	3.46	3.79	17.60	2.30	-561	-3.49	0.0005	decreasing	-0.010
5312H01	ORCHARD AVE IRRIG DIST, Site 1	36	1	2.78	0.00	4.14	4.40	4.54	4.84	5.77	0.90	-205	-2.78	0.0054	decreasing	-0.027
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	1	3.23	0.00	4.05	4.20	4.24	4.51	5.78	0.90	14	0.22	0.8251	stable	
5405K01	PASADENA PARK #2	46	1	2.17	0.00	3.68	3.87	3.85	4.22	5.48	0.74	-108	-1.01	0.3109	stable	
5404A01	Plantas Ferry Park monitoring well	28	0	0	10.30	10.68	11.82	10.95	11.30	23.00	2.80	-235	-4.64	3.55E-06	decreasing	-0.062
5310Q01	monitoring well at SCC	42	0	0	2.17	2.77	3.07	2.88	3.28	4.93	0.52	-127	-1.37	0.1719	stable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	0	0	5.55	6.46	6.96	6.75	7.36	8.92	0.70	-380	-3.48	0.0005	decreasing	-0.024
5411R03	Sullivan Park South, monitoring well	64	0	0	1.41	2.64	3.35	2.82	3.10	35.50	4.11	33	0.19	0.8529	stable	
5411R05s	Springs at Sullivan Park	13	0	0	2.45	2.80	2.98	2.95	3.17	3.32	0.24	-3	-0.12	0.9027	stable	
5411R06	Sullivan Road and Krispy Krems, monitoring wel	3	0	0	3.02	3.07	3.18	3.11	3.26	3.41	0.20				not applicable	
5322A01	Third & Havana Nested Site, east	60	0	0	4.05	4.53	5.04	4.99	5.42	7.70	0.66	-779	-4.96	6.94E-07	decreasing	-0.022
5322A03	Third & Havana Nested Site, mid	58	0	0	4.34	4.67	5.18	5.11	5.53	7.64	0.65	-828	-5.55	2.87E-08	decreasing	-0.023
5212F01s	Three Springs	24	0	0	5.30	5.62	5.89	5.92	6.10	6.64	0.38	34	0.82	0.4118	stable	
5505D01	Trent & Barker Road, monitoring well	65	0	0	4.21	5.81	6.25	6.15	6.32	13.30	1.06	-406	-2.29	0.0218	decreasing	-0.007
5307M01	Trinity School, Adams & Carlisle, City monitoring wel	58	0	0	2.62	3.63	3.85	3.80	3.95	5.30	0.42	-88	-0.58	0.5592	stable	
5426L03	VERA WATER & POWER, New Well 4	7	0	0	7.51	7.60	7.83	7.78	7.90	8.51	0.34				not applicable	0.107
6306P01s	Waikiki Springs	22	0	0	5.67	6.14	6.54	6.45	6.77	8.03	0.59	-1	0.00	1.0000	stable	
6306P01s2	Waikiki Springs-new location	4	0	0	4.21	4.25	4.43	4.45	4.63	4.63	0.23				not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	0	0	2.58	2.93	3.14	3.07	3.17	4.25	0.38	-231	-1.77	0.0774	stable	
TOTAL (ALL SITES)		2447	3	0.12	0.00	2.94	4.08	3.72	5.18	8.54	6.72					

Trend Summary	16	#decreasing
	2	#increasing
	30	#stable
	3	#not applicable

Appendix E11. Sulfate (SO4) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	Secondary (250 mg/L)	State RL (50 mg/L)	S	z	p-value	20-yr Trend	
5323E01	6th & Havana monitoring well (MW-2)	46	0	0	7.29	13.43	14.27	14.20	15.38	18.00	1.87			-393	-3.71	0.0002	decreasing	-0.070
5508M01	Barker Road Centennial Trail North, monitoring well	56	1	1.79	0.00	3.83	4.19	4.13	4.55	7.14	0.92			-123	-0.86	0.3884	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	56	0	0	1.73	3.85	4.24	4.13	4.50	6.82	0.75			-155	-1.09	0.2763	stable	
5507H01	Barker Road north of river, monitoring well	55	0	0	2.31	3.93	4.58	4.24	4.92	10.20	1.33			-36	-0.25	0.7994	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	41	0	0	4.19	10.10	10.65	10.70	11.70	13.5	1.63			-226	-2.53	0.0114	decreasing	-0.040
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	43	0	0	2.82	5.34	6.09	5.92	6.38	11.3	1.44			-248	-2.59	0.0097	decreasing	-0.026
5308A02	CITY of SPOKANE-Nevada	43	0	0	3.94	9.11	9.77	9.58	10.60	12.70	1.40			-334	-3.49	0.0005	decreasing	-0.039
5322F01	CITY of SPOKANE-Ray	45	0	0	3.63	14.80	15.78	15.80	17.80	20.80	2.89			-114	-1.11	0.2687	stable	
5308H01	Denver & Marietta, City monitoring well	49	0	0	4.02	8.61	9.51	9.41	10.60	11.80	1.42			-260	-2.23	0.0255	decreasing	-0.025
6436N01	East Valley High School monitoring well	20	0	0	14.80	17.48	18.50	18.40	19.59	24.8	2.05			-34	-1.07	0.2838	stable	
5324G01	E. SPOKANE WTR DIST, Site 1	45	0	0	7.50	15.00	16.09	16.80	18.10	19.60	2.78			-170	-1.65	0.0981	stable	
5507A04	Euclid & Barker monitoring well at CID5	56	0	0	6.35	15.88	16.22	16.40	16.90	20.80	1.77			-126	-0.89	0.3760	stable	
5312C01	Felts Field City monitoring well	49	0	0	4.21	8.46	9.60	9.55	10.40	19.70	2.06			-97	-0.83	0.4078	stable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	44	0	0	12.70	17.88	20.05	19.60	22.00	29.00	3.07			-95	-0.95	0.3414	stable	
6331J01	Franklin Park, City monitoring well	44	0	0	10.30	11.48	12.30	11.95	12.90	19.00	1.39			-358	-3.62	0.0003	decreasing	-0.044
5409C02	monitoring well Frederick & Bowdish	36	0	0	4.53	10.38	10.85	10.95	11.53	15.10	1.56			219	2.97	0.0029	increasing	0.047
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	15	0	0	14.60	15.35	16.04	16.10	16.58	17.90	0.88			-23	-1.09	0.2751	stable	
5311J05	Hale's Ale Nested Site, east	49	0	0	6.69	14.50	15.10	15.30	15.80	19.60	1.74			-252	-2.17	0.0302	decreasing	-0.017
5311J07	Hale's Ale Nested Site, mid	49	0	0	6.86	14.40	15.14	15.40	15.90	19.50	1.70			-218	-1.87	0.0610	stable	
6211K01	Spokane Fish Hatchery well	49	0	0	6.44	15.00	15.57	15.70	16.40	17.85	1.70			-565	-4.87	1.14E-06	decreasing	-0.048
6330J01	Holy Cross, Rhoades & Washington monitoring well	46	0	0	5.83	12.93	13.88	13.75	14.80	20.70	2.12			-389	-3.68	0.0002	decreasing	-0.050
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	46	0	0	4.98	9.20	9.88	10.05	10.58	13.50	1.25			53	0.49	0.6223	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	55	0	0	5.72	14.90	15.42	15.60	16.15	20.70	2.07			148	1.07	0.2854	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	55	0	0	4.41	11.30	11.93	12.20	12.80	14.70	1.49			-648	-4.71	2.53E-06	decreasing	-0.036
5213B01	I.E. COLD STORAGE	49	0	0	6.14	14.10	15.08	15.20	16.40	18.80	2.23			-293	-2.52	0.0118	decreasing	-0.044
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	48	0	0	4.07	8.43	9.00	9.42	10.23	11.48	1.72			72	0.63	0.5279	stable	
5517D05	Mission & Barker monitoring well at CID 4	56	0	0	2.05	4.95	5.59	5.63	6.23	7.75	1.00			-625	-4.41	1.03E-05	decreasing	-0.034
5415E03	MODERN ELECT WATER, Site 11	21	0	0	8.42	9.03	9.57	9.60	9.88	11.50	0.80			-52	-1.54	0.1232	stable	
5408N01	MODERN ELECT WATER, Site 6	49	0	0	2.25	10.90	11.68	11.90	13.20	16.00	2.22			-415	-3.57	0.0004	decreasing	-0.063
5304G01	NE Community Center, City monitoring well	44	0	0	11.30	12.75	14.49	13.70	15.30	38.30	4.10			-165	-1.66	0.0968	stable	
5417R02	New Balfour Park monitoring well	14	0	0	6.27	6.85	7.33	7.04	7.45	10.20	0.98			-14	-0.71	0.4760	stable	
5328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	45	0	0	4.52	11.50	11.72	11.80	12.50	13.60	1.34			-182	-1.78	0.0751	stable	
5315L01	Olive & Fiske monitoring well	49	0	0	4.28	8.83	9.81	10.20	10.50	12.90	1.29			-474	-4.08	4.48E-05	decreasing	-0.039
5312H01	ORCHARD AVE IRRIG DIST, Site 1	27	0	0	9.59	11.70	12.41	12.40	13.05	15.15	1.23			-96	-1.99	0.0470	decreasing	-0.054
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	23	0	0	5.24	10.90	11.66	11.90	13.00	15.20	2.27			-56	-1.45	0.1459	stable	
5405K01	PASADENA PARK #2	37	0	0	3.98	8.66	9.49	9.30	10.20	17.40	1.92			153	1.99	0.0467	increasing	0.035
5404A01	Plantas Ferry Park monitoring well	19	0	0	17.70	20.05	21.55	21.40	22.55	27.60	2.35			35	1.19	0.2337	stable	
5310Q01	monitoring well at SCC	33	0	0	3.95	8.00	9.04	8.72	10.10	13.10	1.79			-156	-2.40	0.0163	decreasing	-0.041
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	38	0	0	6.23	13.48	14.70	15.00	15.71	18.10	2.05			16	0.19	0.8502	stable	
5411R03	Sullivan Park South, monitoring well	55	0	0	4.13	10.15	11.18	11.40	12.50	14.20	2.04			-382	-2.77	0.0056	decreasing	-0.035
5411R05s	Springs at Sullivan Park	4	0	0	9.55	10.34	10.59	10.80	11.05	11.20	0.74						not applicable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	0	0	0	NA	NA	NA	NA	NA	NA	NA						not applicable	
5322A01	Third & Havana Nested Site, east	49	0	0	4.44	9.31	10.52	10.50	11.80	14.00	1.65			-560	-4.82	1.43E-06	decreasing	-0.067
5322A03	Third & Havana Nested Site, mid	48	0	0	5.16	9.41	10.54	10.70	11.73	12.95	1.49			-573	-5.09	3.64E-07	decreasing	-0.065
5212F01s	Three Springs	15	0	0	12.40	13.35	14.19	14.20	15.10	16.40	1.17			-18	-0.84	0.3996	stable	
5505D01	Trent & Barker Road, monitoring well	56	0	0	5.11	11.08	11.62	11.80	12.10	15.10	1.33			-27	-0.18	0.8539	stable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	49	0	0	4.13	10.60	11.23	11.60	12.00	14.50	1.38			-425	-3.66	0.0002	decreasing	-0.036
5426L03	VERA WATER & POWER, New Well 4	0	0	0	NA	NA	NA	NA	NA	NA	NA						not applicable	
6306P01s	Waikiki Springs	15	0	0	15.50	17.45	18.73	19.00	20.20	20.80	1.73			45	2.18	0.0294	increasing	0.094
6306P01s2	Waikiki Springs-new location	0	0	0	NA	NA	NA	NA	NA	NA	NA						not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	44	0	0	5.22	13.40	13.94	14.00	14.83	15.90	1.65			-373	-3.77	0.0002	decreasing	-0.044
TOTAL (ALL SITES)		1979	1	0.05	1.73	9.33	12.11	11.70	14.80	23.00	4.25	0	0					

Trend Summary	21	#decreasing
	3	#increasing
	23	#stable
	4	#not applicable

Appendix E12. Nitrate (NO4) Summary Table

ID	Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (10 mg/L)	State RL (5 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	79		0.00	1.93	2.58	3.02	2.91	3.30	5.00	0.63		1	-1201	-5.08	3.74E-07	decreasing	-0.016
5508M01	Barker Road Centennial Trail North, monitoring well	67		0.00	0.10	0.16	0.21	0.18	0.22	0.63	0.09			395	2.14	0.0322	increasing	0.001
5508M02	Barker Road Centennial Trail South, monitoring well	67		0.00	0.10	0.15	0.20	0.19	0.24	0.52	0.08			410	2.22	0.0262	increasing	0.001
5507H01	Barker Road north of river, monitoring well	66		0.00	0.11	0.16	0.24	0.22	0.29	0.79	0.13			126	0.69	0.4882	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50		0.00	0.96	1.29	1.37	1.38	1.47	1.78	0.16			-290	-2.42	0.0155	decreasing	-0.004
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52		0.00	0.34	0.47	0.61	0.55	0.69	1.37	0.21			288	2.27	0.0234	increasing	0.003
5308A02	CITY of SPOKANE-Nevada	53		0.00	0.91	1.02	1.13	1.11	1.20	1.72	0.14			-570	-4.37	1.24E-05	decreasing	-0.004
5322F01	CITY of SPOKANE-Ray	86		0.00	2.23	3.21	3.58	3.61	3.94	6.20	0.61		1	-1194	-4.45	8.58E-06	decreasing	-0.010
5308H01	Denver & Marietta, City monitoring well	85		0.00	0.72	0.93	1.09	1.09	1.19	2.53	0.24			-843	-3.20	0.0014	decreasing	-0.003
6436N01	East Valley High School monitoring well	54		0.00	2.78	4.22	5.13	4.94	6.06	9.10	1.35		26	-306	-2.28	0.0229	decreasing	-0.028
5324G01	E. SPOKANE WTR DIST, Site 1	80		0.00	1.69	3.50	3.86	3.87	4.36	5.50	0.79		5	-1362	-5.66	1.56E-08	decreasing	-0.018
5507A04	Euclid & Barker monitoring well at CID5	93		0.00	1.18	1.34	1.51	1.47	1.62	2.40	0.23			1713	5.69	1.31E-08	increasing	0.004
5312C01	Felts Field City monitoring well	61		0.00	0.60	0.93	1.09	1.06	1.20	2.25	0.27			-319	-1.98	0.0477	decreasing	-0.003
6327N04	Fire Station Houston & Regal, No. Spokane WD	78		0.00	1.91	2.41	3.00	2.97	3.51	4.70	0.64			147	0.63	0.5287	stable	
6331J01	Franklin Park, City monitoring well	53		0.00	0.93	1.03	1.15	1.12	1.22	2.53	0.22			-760	-5.83	5.56E-09	decreasing	-0.006
5409C02	monitoring well Frederick & Bowdish	45		0.00	1.34	1.50	1.62	1.58	1.66	3.12	0.26			287	2.80	0.0051	increasing	0.004
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	49	1	2.04	0.00	1.65	1.68	1.72	1.76	1.93	0.26			1	0	1.0000	stable	
5311J05	Hale's Ale Nested Site, east	87		0.00	1.39	1.54	1.68	1.63	1.77	2.76	0.21			786	2.88	0.0040	increasing	0.002
5311J07	Hale's Ale Nested Site, mid	58		0.00	0.80	1.49	1.59	1.56	1.67	2.61	0.22			283	1.89	0.0583	stable	
6211K01	Spokane Fish Hatchery well	58		0.00	1.36	1.51	1.62	1.60	1.70	2.73	0.20			-955	-6.41	1.48E-10	decreasing	-0.006
6330J01	Holy Cross, Rhoades & Washington monitoring well	56		0.00	0.99	1.19	1.35	1.32	1.48	2.62	0.26			-716	-5.06	4.29E-07	decreasing	-0.008
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	78		0.00	1.45	1.97	2.25	2.25	2.53	3.30	0.41			534	2.30	0.0214	increasing	0.005
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89		0.00	0.71	0.90	1.05	1.02	1.13	2.56	0.23			1082	3.83	0.0001	increasing	0.003
6631M07	Idaho Road - East Farms monitoring well at CID11	89		0.00	1.16	1.53	1.66	1.67	1.81	2.30	0.21			-1448	-5.13	2.90E-07	decreasing	-0.004
5213B01	I.E. COLD STORAGE	58		0.00	1.42	1.87	2.08	2.12	2.30	2.62	0.27			-142	-0.95	0.3440	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57		0.00	0.49	1.09	1.27	1.29	1.45	1.86	0.29			101	0.69	0.4911	stable	
5517D05	Mission & Barker monitoring well at CID 4	67		0.00	0.35	0.47	0.61	0.56	0.71	1.40	0.22			-784	-4.24	2.22E-05	decreasing	-0.004
5415 E03	MODERN ELECT WATER, Site 11	30		0.00	0.85	0.93	0.96	0.95	1.00	1.18	0.08			55	0.97	0.3328	stable	
5408N01	MODERN ELECT WATER, Site 6	58		0.00	1.07	1.33	1.46	1.41	1.57	1.99	0.20			-757	-5.08	3.80E-07	decreasing	-0.007
5304G01	NE Community Center, City monitoring well	53		0.00	1.03	1.22	1.47	1.33	1.60	3.31	0.40			-38	-0.28	0.7765	stable	
5417R02	New Balfour Park monitoring well	48		0.00	0.75	0.89	0.95	0.93	1.03	1.21	0.10			-307	-2.73	0.0064	decreasing	-0.003
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54		0.00	0.74	1.01	1.18	1.12	1.24	2.43	0.30			218	1.62	0.1053	stable	
5315L01	Olive & Fiske monitoring well	87		0.00	0.93	1.04	1.22	1.16	1.34	2.46	0.24			-1779	-6.52	6.92E-11	decreasing	-0.006
5312H01	ORCHARD AVE IRRIG DIST, Site 1	54		0.00	1.45	1.81	2.01	2.01	2.21	2.71	0.29			-68	-0.50	0.6171	stable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	53		0.00	0.30	1.56	1.69	1.78	1.91	2.59	0.41			452	3.46	0.0005	increasing	0.008
5405K01	PASADENA PARK #2	71		0.00	0.84	1.10	1.38	1.37	1.60	3.15	0.38			-380	-1.88	0.0599	stable	
5404A01	Plantes Ferry Park monitoring well	27	19	70.37	0.00	0.00	0.05	0.00	0.02	1.05	0.20						not applicable	
5310Q01	monitoring well at SCC	68		0.00	0.70	0.91	1.05	0.97	1.14	2.46	0.27			-563	-2.98	0.0029	decreasing	-0.003
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	81		0.00	2.01	2.56	2.74	2.68	2.91	3.76	0.29			-48	-0.19	0.8479	stable	
5411R03	Sullivan Park South, monitoring well	85		0.00	0.07	0.86	0.99	0.98	1.12	1.50	0.23			1206	4.58	4.75E-06	increasing	0.004
5411R05s	Springs at Sullivan Park	13		0.00	0.78	0.94	1.07	1.05	1.19	1.24	0.15			43	2.59	0.0096	increasing	0.031
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12		0.00	0.20	0.85	1.00	1.14	1.19	1.28	0.32			9	0.55	0.5800	stable	
5322A01	Third & Havana Nested Site, east	85		0.00	0.14	1.49	1.76	1.63	1.86	3.90	0.48			-1752	-6.65	2.97E-11	decreasing	-0.009
5322A03	Third & Havana Nested Site, mid	58		0.00	1.40	1.59	1.85	1.73	2.16	3.22	0.37			-852	-5.71	1.13E-08	decreasing	-0.015
5212F01s	Three Springs	50		0.00	1.71	1.90	2.17	2.16	2.43	2.79	0.31			191	1.59	0.1119	stable	
5505D01	Trent & Barker Road, monitoring well	91		0.00	1.45	2.77	2.98	2.97	3.24	3.83	0.43			1333	4.57	4.94E-06	increasing	0.007
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58		0.00	1.13	1.29	1.39	1.35	1.50	1.98	0.15			-862	-5.78	7.38E-09	decreasing	-0.006
5426L03	VERA WATER & POWER, New Well 4	21		0.00	1.86	2.56	2.84	2.97	3.17	3.45	0.43			-73	-2.18	0.0296	decreasing	-0.040
6306P01s	Waikiki Springs	44		0.00	1.90	2.92	3.11	3.15	3.47	4.20	0.55			407	4.11	3.98E-05	increasing	0.028
6306P01s2	Waikiki Springs-new location	14		0.00	1.51	1.99	2.06	2.09	2.18	2.35	0.21			-53	-2.85	0.0044	decreasing	-0.036
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53		0.00	0.01	1.02	1.13	1.07	1.14	3.44	0.40			-520	-3.99	0.0001	decreasing	-0.003
TOTAL (ALL SITES)		3083	20	0.65	0.00	1.05	1.71	1.49	2.14	9.10	1.06	0	33					

Trend Summary	23	#decreasing
	13	#increasing
	14	#stable
	1	#not applicable

Appendix E13. Total Phosphorus Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	63	1	1.59	0	0.0110	0.0139	0.0125	0.0153	0.0348	0.0051	-710	-4.21	2.57E-05	decreasing	-0.0001
5508M01	Barker Road Centennial Trail North, monitoring well	41	0	0.00	0.0035	0.0088	0.0114	0.0106	0.0121	0.0280	0.0047	-28	-0.30	0.7616	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	41	0	0.00	0.0030	0.0079	0.0123	0.0098	0.0124	0.0516	0.0093	-143	-1.60	0.1104	stable	
5507H01	Barker Road north of river, monitoring well	42	2	4.76	0	0.0110	0.0155	0.0129	0.0188	0.0599	0.0098	-34	-0.36	0.7205	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	36	6	16.67	0	0.0030	0.0057	0.0052	0.0070	0.0190	0.0045	-58	-0.78	0.4360	stable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	39	11	28.21	0	0	0.0146	0.0030	0.0046	0.4300	0.0684	69	0.83	0.4042	stable	
5308A02	CITY of SPOKANE-Nevada	38	4	10.53	0	0.0032	0.0049	0.0042	0.0066	0.0149	0.0032	-185	-2.32	0.0205	decreasing	-0.0001
5322F01	CITY of SPOKANE-Ray	65	0	0.00	0.0061	0.0192	0.0218	0.0214	0.0239	0.0327	0.0042	-328	-1.85	0.0640	stable	
5308H01	Denver & Marietta, City monitoring well	68	10	14.71	0	0.0030	0.0065	0.0042	0.0060	0.1010	0.0126	-44	-0.23	0.8195	stable	
6436N01	East Valley High School monitoring well	47	0	0.00	0.0310	0.0437	0.0485	0.0482	0.0524	0.0790	0.0089	-396	-3.62	0.0003	decreasing	-0.0003
5324G01	E. SPOKANE WTR DIST, Site 1	62	1	1.61	0	0.0189	0.0321	0.0207	0.0332	0.2560	0.0360	-905	-5.49	3.91E-08	decreasing	-0.0004
5507A04	Euclid & Barker monitoring well at CID5	66	20	30.30	0	0	0.0031	0.0025	0.0040	0.0166	0.0034	467	2.62	0.0088	increasing	4.08E-05
5312C01	Felts Field City monitoring well	44	1	2.27	0	0.0165	0.0206	0.0192	0.0240	0.0455	0.0074	-334	-3.37	0.0008	decreasing	-0.0002
6327N04	Fire Station Houston & Regal, No. Spokane WD	62	14	22.58	0	0.0013	0.0037	0.0027	0.0040	0.0348	0.0057	158	0.96	0.3369	stable	
6331J01	Franklin Park, City monitoring well	37	6	16.22	0	0.0035	0.0076	0.0053	0.0085	0.0568	0.0100	-154	-2.01	0.0446	decreasing	-0.0001
5409C02	monitoring well Frederick & Bowdish	35	1	2.86	0	0.0051	0.0068	0.0061	0.0076	0.0154	0.0030	-42	-0.58	0.5601	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	69	0	0.00	0.0020	0.0046	0.0076	0.0056	0.0065	0.1282	0.0150	-346	-1.79	0.0736	stable	
5311J05	Hale's Ale Nested Site, east	89	9	10.11	0	0.0031	0.0053	0.0047	0.0061	0.0224	0.0042	-297	-1.05	0.2934	stable	
5311J07	Hale's Ale Nested Site, mid	41	10	24.39	0	0.0015	0.0080	0.0041	0.0058	0.1610	0.0248	43	0.48	0.6340	stable	
6211K01	Spokane Fish Hatchery well	40	4	10.00	0	0.0045	0.0055	0.0053	0.0065	0.0111	0.0028	-249	-2.89	0.0038	decreasing	-0.0001
6330J01	Holy Cross, Rhoades & Washington monitoring well	39	10	25.64	0	0.0008	0.0036	0.0027	0.0053	0.0209	0.0041	110	1.33	0.1830	stable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	61	7	11.48	0	0.0030	0.0057	0.0044	0.0064	0.0270	0.0049	-17	-0.10	0.9206	stable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	65	13	20.00	0	0.0020	0.0043	0.0030	0.0050	0.0240	0.0047	-2	-0.01	0.9955	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	84	7	8.33	0	0.0041	0.0060	0.0051	0.0066	0.0270	0.0047	-213	-0.82	0.4122	stable	
5213B01	I.E. COLD STORAGE	41	3	7.32	0	0.0077	0.0092	0.0084	0.0100	0.0398	0.0059	-111	-1.24	0.2160	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	40	1	2.50	0	0.0100	0.0125	0.0115	0.0140	0.0271	0.0045	-251	-2.91	0.0036	decreasing	-0.0001
5517D05	Mission & Barker monitoring well at CID 4	41	6	14.63	0	0.0025	0.0074	0.0042	0.0094	0.0340	0.0084	-58	-0.64	0.5209	stable	
5415 E03	MODERN ELECT WATER, Site 11	22	0	0.00	0.0020	0.0030	0.0060	0.0040	0.0045	0.0520	0.0103	18	0.48	0.6304	stable	
5408N01	MODERN ELECT WATER, Site 6	40	10	25.00	0	0.0011	0.0046	0.0036	0.0047	0.0590	0.0092	38	0.44	0.6632	stable	
5304G01	NE Community Center, City monitoring well	37	11	29.73	0	0	0.0049	0.0033	0.0055	0.0283	0.0062	139	1.83	0.0670	stable	
5417R02	New Balfour Park monitoring well	46	0	0.00	0.0043	0.0070	0.0093	0.0078	0.0104	0.0283	0.0044	-180	-1.70	0.0896	stable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	40	8	20.00	0	0.0020	0.0039	0.0039	0.0054	0.0130	0.0030	-18	-0.20	0.8421	stable	
5315L01	Olive & Fiske monitoring well	70	5	7.14	0	0.0040	0.0098	0.0051	0.0070	0.2050	0.0250	-418	-2.12	0.0344	decreasing	-3.60E-05
5312H01	ORCHARD AVE IRRIG DIST, Site 1	35	1	2.86	0	0.0149	0.0175	0.0170	0.0195	0.0290	0.0052	-207	-2.93	0.0034	decreasing	-0.0002
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	38	1	2.63	0	0.0114	0.0130	0.0139	0.0145	0.0194	0.0033	-52	-0.64	0.5210	stable	
5405K01	PASADENA PARK #2	59	2	3.39	0	0.0061	0.0080	0.0070	0.0079	0.0400	0.0055	-292	-1.91	0.0565	stable	
5404A01	Plantess Ferry Park monitoring well	21	0	0.00	0.0516	0.1496	0.2279	0.2310	0.2918	0.4077	0.1067	-68	-2.02	0.0431	decreasing	-0.0084
5310Q01	monitoring well at SCC	78	6	7.69	0	0.0030	0.0041	0.0039	0.0050	0.0158	0.0025	236	1.02	0.3099	stable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	58	4	6.90	0	0.0051	0.0063	0.0060	0.0072	0.0190	0.0029	-442	-2.96	0.0031	decreasing	-3.33E-05
5411R03	Sullivan Park South, monitoring well	80	4	5.00	0	0.0034	0.0088	0.0048	0.0076	0.1840	0.0209	-488	-2.02	0.0429	decreasing	-3.08E-05
5411R05s	Springs at Sullivan Park	12	0	0.00	0.0027	0.0034	0.0044	0.0042	0.0054	0.0070	0.0013	-3	-0.14	0.8907	stable	
5411R06	Sullivan Road and Krispy Krems, monitoring well	12	0	0.00	0.0030	0.0040	0.0056	0.0050	0.0061	0.0130	0.0026	0	0.00	1.0000	stable	
5322A01	Third & Havana Nested Site, east	66	1	1.52	0	0.0080	0.0109	0.0090	0.0124	0.0406	0.0057	-698	-3.86	0.0001	decreasing	-0.0001
5322A03	Third & Havana Nested Site, mid	41	1	2.44	0	0.0073	0.0136	0.0086	0.0116	0.1220	0.0193	-253	-2.83	0.0046	decreasing	-0.0001
5212F01s	Three Springs	69	0	0.00	0.0015	0.0040	0.0055	0.0052	0.0062	0.0190	0.0027	-308	-1.59	0.1114	stable	
5505D01	Trent & Barker Road, monitoring well	67	0	0.00	0.0090	0.0104	0.0134	0.0119	0.0143	0.0334	0.0050	-844	-4.58	4.69E-06	decreasing	-0.0001
5307M01	Trinity School, Adams & Carlisle, City monitoring well	41	11	26.83	0	0	0.0038	0.0032	0.0055	0.0181	0.0041	80	0.90	0.3696	stable	
5426L03	VERA WATER & POWER, New Well 4	21	0	0.00	0.0060	0.0070	0.0085	0.0080	0.0090	0.0173	0.0024	-52	-1.56	0.1189	stable	
6306P01s	Waikiki Springs	63	4	6.35	0	0.0020	0.0040	0.0033	0.0044	0.0220	0.0034	-11	-0.06	0.9526	stable	
6306P01s2	Waikiki Springs-new location	14	2	14.29	0	0.0030	0.0033	0.0030	0.0038	0.0070	0.0019	39	2.24	0.0252	increasing	0.0002
6320D01	WHITWORTH WATER DIST. #2, Well 2A	39	9	23.08	0	0.0015	0.0035	0.0029	0.0056	0.0125	0.0031	61	0.73	0.4642	stable	
TOTAL (ALL SITES)		2465	227	9.21	0	0.0036	0.0087	0.0060	0.0113	0.0228	0.0273					

Trend Summary	16	#decreasing
	2	#increasing
	33	#stable
	0	#not applicable

Appendix E14. Soluble Reactive Phosphorus Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	75	0	0.00	0.0020	0.0105	0.0122	0.0117	0.0136	0.0225	0.0035	-1226	-5.61	1.99E-08	decreasing	-6.56E-05
5508M01	Barker Road Centennial Trail North, monitoring well	55	0	0.00	0.0050	0.0070	0.0086	0.0086	0.0100	0.0184	0.0022	106	0.76	0.4453	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	55	0	0.00	0.0020	0.0057	0.0088	0.0076	0.0093	0.0444	0.0065	-203	-1.47	0.1422	stable	
5507H01	Barker Road north of river, monitoring well	55	1	1.82	0	0.00785	0.0116	0.0109	0.0149	0.0225	0.0049	2	0.01	0.9942	stable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	47	0	0.00	0.002	0.003	0.0044	0.0040	0.0051	0.0100	0.0020	-143	-1.31	0.1918	stable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	49	7	14.29	0	0.0016	0.0026	0.0023	0.0031	0.0100	0.0020	-78	-0.67	0.5052	stable	
5308A02	CITY of SPOKANE-Nevada	48	7	14.58	0	0.001975	0.0027	0.0026	0.0036	0.0100	0.0019	-63	-0.55	0.5804	stable	
5322F01	CITY of SPOKANE-Ray	77	1	1.30	0	0.018	0.0196	0.0197	0.0211	0.0264	0.0039	-10	-0.04	0.9684	stable	
5308H01	Denver & Marietta, City monitoring well	82	5	6.10	0	0.00235	0.0035	0.0031	0.0039	0.0191	0.0025	-614	-2.46	0.0139	decreasing	-1.22E-05
6436N01	East Valley High School monitoring well	52	0	0.00	0.0260	0.0400	0.0442	0.0441	0.0491	0.0630	0.0071	-449	-3.54	0.0004	decreasing	-0.0002
5324G01	E. SPOKANE WTR DIST, Site 1	78	0	0.00	0.0010	0.0177	0.0269	0.0194	0.0294	0.0840	0.0173	-1048	-4.52	6.19E-06	decreasing	-0.0002
5507A04	Euclid & Barker monitoring well at CIDs	80	20	25.00	0	0.000375	0.0027	0.0017	0.0029	0.0462	0.0057	-916	-3.84	0.0001	decreasing	-2.96E-05
5312C01	Felts Field City monitoring well	58	0	0.00	0.0036	0.0154	0.0178	0.0172	0.0194	0.0347	0.0049	-710	-4.76	1.96E-06	decreasing	-0.0001
6327N04	Fire Station Houston & Regal, No. Spokane WD	76	16	21.05	0	0.000875	0.0021	0.0017	0.0029	0.0180	0.0025	-552	-2.49	0.0128	decreasing	-2.12E-05
6331J01	Franklin Park, City monitoring well	51	8	15.69	0	0.002	0.0034	0.0029	0.0036	0.0234	0.0036	0	0.00	1.0000	stable	
5409C02	monitoring well Frederick & Bowdish	42	2	4.76	0	0.004025	0.0053	0.0051	0.0062	0.0120	0.0024	-106	-1.14	0.2545	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	69	1	1.45	0	0.0032	0.0042	0.0043	0.0050	0.0090	0.0016	-767	-3.98	0.0001	decreasing	-3.25E-05
5311J05	Hale's Ale Nested Site, east	103	3	2.91	0	0.0027	0.0039	0.0035	0.0042	0.0250	0.0032	-895	-2.55	0.0107	decreasing	-1.15E-05
5311J07	Hale's Ale Nested Site, mid	55	7	12.73	0	0.00245	0.0037	0.0031	0.0040	0.0270	0.0040	-50	-0.36	0.7215	stable	
6211K01	Spokane Fish Hatchery well	56	0	0.00	0.001	0.003775	0.0060	0.0046	0.0060	0.0362	0.0053	-230	-1.62	0.1052	stable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	54	11	20.37	0	0.001	0.0027	0.0021	0.0033	0.0110	0.0025	-48	-0.35	0.7243	stable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	75	1	1.33	0	0.002	0.0036	0.0031	0.0046	0.0146	0.0023	-1287	-5.89	3.83E-09	decreasing	-5.00E-05
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	79	16	20.25	0	0.001	0.0028	0.0019	0.0033	0.0148	0.0032	-1233	-5.24	1.58E-07	decreasing	-4.85E-05
6631M07	Idaho Road - East Farms monitoring well at CID11	98	1	1.02	0	0.003025	0.0052	0.0040	0.0052	0.0475	0.0051	-1393	-4.28	1.86E-05	decreasing	-2.67E-05
5213B01	I.E. COLD STORAGE	55	0	0.00	0.0036	0.0061	0.0098	0.0073	0.0083	0.1400	0.0180	137	0.99	0.3229	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	54	0	0.00	0.0020	0.0090	0.0104	0.0102	0.0118	0.0190	0.0031	-205	-1.52	0.1276	stable	
5517D05	Mission & Barker monitoring well at CID 4	55	5	9.09	0	0.00205	0.0039	0.0031	0.0049	0.0276	0.0040	-668	-4.85	1.24E-06	decreasing	-0.0001
5415 E03	MODERN ELECT WATER, Site 11	28	3	10.71	0	0.002225	0.0030	0.0030	0.0035	0.0070	0.0016	-88	-1.73	0.0829	stable	
5408N01	MODERN ELECT WATER, Site 6	54	7	12.96	0.0000	0.0021	0.0038	0.0030	0.0042	0.0321	0.0045	-250	-1.86	0.0626	stable	
5304G01	NE Community Center, City monitoring well	51	6	11.76	0	0.002	0.0057	0.0027	0.0054	0.0697	0.0103	-207	-1.68	0.0935	stable	
5417R02	New Balfour Park monitoring well	47	0	0.00	0.0030	0.0060	0.0064	0.0064	0.0070	0.0104	0.0014	-243	-2.23	0.0260	decreasing	-2.22E-05
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	52	3	5.77	0	0.0026	0.0037	0.0034	0.0043	0.0100	0.0019	-17	-0.13	0.8994	stable	
5315L01	Olive & Fiske monitoring well	84	2	2.38	0	0.003	0.0057	0.0040	0.0050	0.0761	0.0095	-797	-3.08	0.0021	decreasing	-2.22E-05
5312H01	ORCHARD AVE IRRIG DIST, Site 1	47	0	0.00	0.0100	0.0140	0.0162	0.0157	0.0175	0.0272	0.0033	-271	-2.48	0.0131	decreasing	-0.0001
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	43	0	0.00	0.0074	0.0102	0.0134	0.0120	0.0140	0.0744	0.0098	39	0.40	0.6906	stable	
5405K01	PASADENA PARK #2	66	1	1.52	0	0.005	0.0069	0.0057	0.0069	0.0436	0.0054	-471	-2.61	0.0091	decreasing	-2.33E-05
5404A01	Plantes Ferry Park monitoring well	26	0	0.00	0.0060	0.0388	0.0938	0.0589	0.1365	0.2557	0.0763	-19	-0.40	0.6916	stable	
5310Q01	monitoring well at SCC	85	4	4.71	0	0.002	0.0028	0.0025	0.0030	0.0274	0.0031	-141	-0.53	0.5941	stable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	68	3	4.41	0	0.004	0.0050	0.0050	0.0058	0.0120	0.0020	-522	-2.76	0.0058	decreasing	-2.09E-05
5411R03	Sullivan Park South, monitoring well	93	4	4.30	0	0.0027	0.0043	0.0034	0.0046	0.0392	0.0045	-919	-3.05	0.0023	decreasing	-2.22E-05
5411R05s	Springs at Sullivan Park	13	0	0.00	0.002	0.0022	0.0036	0.0038	0.0045	0.0070	0.0015	-18	-1.05	0.2954	stable	
5411R06	Sullivan Road and Krispy Krems, monitoring well	12	0	0.00	0.0020	0.0030	0.0033	0.0030	0.0040	0.0050	0.0009	5	0.30	0.7671	stable	
5322A01	Third & Havana Nested Site, east	75	1	1.33	0	0.007	0.0086	0.0080	0.0094	0.0199	0.0033	-791	-3.62	0.0003	decreasing	-4.21E-05
5322A03	Third & Havana Nested Site, mid	54	1	1.85	0	0.00655	0.0077	0.0072	0.0089	0.0136	0.0022	-379	-2.82	0.0048	decreasing	-4.57E-05
5212F01s	Three Springs	70	5	7.14	0	0.00255	0.0035	0.0036	0.0047	0.0090	0.0017	-249	-1.26	0.2078	stable	
5505D01	Trent & Barker Road, monitoring well	81	0	0.00	0.0050	0.0098	0.0115	0.0108	0.0120	0.0498	0.0053	-982	-4.01	0.0001	decreasing	-3.53E-05
5307M01	Trinity School, Adams & Carlisle, City monitoring well	56	11	19.64	0	0.001375	0.0046	0.0025	0.0032	0.0908	0.0131	138	0.98	0.3294	stable	
5426L03	VERA WATER & POWER, New Well 4	21	0	0.00	0.0039	0.0060	0.0063	0.0060	0.0070	0.0081	0.0009	-10	-0.30	0.7677	stable	
6306P01s	Waikiki Springs	63	11	17.46	0	0.00125	0.0022	0.0020	0.0031	0.0080	0.0016	-554	-3.29	0.0010	decreasing	-3.42E-05
6306P01s2	Waikiki Springs-new location	14	5	35.71	0	0	0.0014	0.0020	0.0020	0.0030	0.0012	-8	-0.40	0.6858	stable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	51	10	19.61	0	0.00135	0.0026	0.0022	0.0033	0.0100	0.0022	-55	-0.44	0.6592	stable	
TOTAL (ALL SITES)		2987	189	6.33	0	0.0027	0.0069	0.0045	0.0090	0.0184	0.0141					

Trend Summary	23	#decreasing
	0	#increasing
	28	#stable
	0	#not applicable

Appendix E15. Arsenic (As) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)						Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)	
		Count	#ND	%ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (0.01 mg/L)	State RL (0.005 mg/L)	S	z	p-value		20-yr Trend
5323 E01	6th & Havana monitoring well (MW-2)	51	0	0.0	0.0022	0.0033	0.0035	0.0035	0.0038	0.0043	0.0004			-205	-1.67	0.0956	stable	
5508M01	Barker Road Centennial Trail North, monitoring well	64	61	95.3	0	0	0.0001	0	0	0.0017	0.0003						not applicable	
5508M02	Barker Road Centennial Trail South, monitoring well	63	58	92.1	0	0	0.0001	0	0	0.0029	0.0005						not applicable	
5507H01	Barker Road north of river, monitoring well	64	57	89.1	0	0	0.0002	0	0	0.0029	0.0006						not applicable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	48	0	0.0	0.0039	0.0049	0.0053	0.0053	0.0055	0.0078	0.0007		35	92	0.81	0.4163	stable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	50	19	38.0	0	0.0000	0.0008	0.0011	0.0012	0.0031	0.0007			41	0.35	0.7277	stable	
5308A02	CITY OF SPOKANE-Nevada	50	3	6.0	0	0.0019	0.0021	0.0021	0.0025	0.0039	0.0007			30	0.24	0.8071	stable	
5322F01	CITY OF SPOKANE-Ray	52	0	0.0	0.0030	0.0039	0.0041	0.0041	0.0042	0.0051	0.0004		1	-281	-2.22	0.0261	decreasing	-5.13E-06
5308H01	Denver & Marietta, City monitoring well	52	0	0.0	0.0016	0.0020	0.0022	0.0022	0.0024	0.0029	0.0003			-42	-0.33	0.7441	stable	
6436N01	East Valley High School monitoring well	29	1	3.4	0	0.0022	0.0025	0.0025	0.0031	0.0044	0.0008			-133	-2.49	0.0128	decreasing	-2.18E-05
5324G01	E. SPOKANE WTR DIST, Site 1	50	0	0.0	0.0023	0.0028	0.0038	0.0037	0.0045	0.0100	0.0013	1	4	124	1.03	0.3029	stable	
5507A04	Euclid & Barker monitoring well at CID5	64	2	3.1	0	0.0017	0.0018	0.0018	0.0020	0.0033	0.0005			-5	-0.02	0.9814	stable	
5312C01	Felts Field City monitoring well	61	0	0.0	0.0029	0.0062	0.0067	0.0067	0.0073	0.0094	0.0010		58	-624	-3.88	0.0001	decreasing	-2.39E-05
6327N04	Fire Station Houston & Regal, No. Spokane WD	48	1	2.1	0	0.0015	0.0017	0.0017	0.0018	0.0030	0.0004			-206	-1.84	0.0657	stable	
6331J01	Franklin Park, City monitoring well	48	0	0.0	0.0026	0.0032	0.0036	0.0035	0.0037	0.0073	0.0007		2	97	0.86	0.3905	stable	
5409C02	monitoring well Frederick & Bowdish	45	0	0.0	0.0032	0.0046	0.0047	0.0048	0.0049	0.0066	0.0005		9	-105	-1.03	0.3023	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	0	0.0	0.0022	0.0028	0.0032	0.0031	0.0034	0.0046	0.0006			4	0.07	0.9403	stable	
5311J05	Hale's Ale Nested Site, east	52	0	0.0	0.0011	0.0026	0.0028	0.0028	0.0030	0.0035	0.0004			-231	-1.83	0.0677	stable	
5311J07	Hale's Ale Nested Site, mid	52	0	0.0	0.0011	0.0026	0.0028	0.0028	0.0030	0.0037	0.0004			-272	-2.16	0.0310	decreasing	-7.14E-06
6211K01	Spokane Fish Hatchery well	54	0	0.0	0.0025	0.0032	0.0034	0.0034	0.0036	0.0048	0.0004			7	0.05	0.9640	stable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	50	0	0.0	0.0024	0.0029	0.0031	0.0032	0.0034	0.0045	0.0004			180	1.51	0.1320	stable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	49	0	0.0	0.0023	0.0030	0.0034	0.0033	0.0037	0.0056	0.0007		3	-362	-3.13	0.0018	decreasing	-1.25E-05
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	52	1	1.9	0	0.0022	0.0024	0.0023	0.0026	0.0038	0.0005			-325	-2.57	0.0101	decreasing	-7.14E-06
6631M07	Idaho Road - East Farms monitoring well at CID11	52	0	0.0	0.0037	0.0040	0.0044	0.0043	0.0047	0.0054	0.0005		7	372	2.94	0.0033	increasing	8.63E-06
5213B01	I.E. COLD STORAGE	54	2	3.7	0	0.0021	0.0023	0.0023	0.0026	0.0033	0.0005			8	0.05	0.9580	stable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	53	3	5.7	0	0.0027	0.0030	0.0031	0.0034	0.0039	0.0009			-296	-2.27	0.0232	decreasing	-1.00E-05
5517D05	Mission & Barker monitoring well at CID 4	64	31	48.4	0	0	0.0007	0.0010	0.0012	0.0030	0.0008			-386	-2.38	0.0172	decreasing	0.00E+00
5415 E03	MODERN ELECT WATER, Site 11	30	0	0.0	0.0024	0.0027	0.0030	0.0031	0.0033	0.0036	0.0003			197	3.52	0.0004	increasing	2.50E-05
5408N01	MODERN ELECT WATER, Site 6	54	1	1.9	0	0.0022	0.0023	0.0023	0.0026	0.0035	0.0005			287	2.15	0.0313	increasing	5.41E-06
5304G01	NE Community Center, City monitoring well	48	0	0.0	0.0017	0.0024	0.0026	0.0026	0.0027	0.0045	0.0005			-38	-0.33	0.7404	stable	
5417R02	New Balfour Park monitoring well	23	0	0.0	0.0011	0.0025	0.0027	0.0026	0.0029	0.0045	0.0007			-24	-0.61	0.5403	stable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	50	2	4.0	0	0.0022	0.0023	0.0023	0.0025	0.0031	0.0005			28	0.23	0.8199	stable	
5315L01	Olive & Fiske monitoring well	52	1	1.9	0	0.0020	0.0022	0.0021	0.0024	0.0045	0.0006			99	0.78	0.4337	stable	
5312H01	ORCHARD AVE IRRIG DIST, Site 1	41	1	2.4	0	0.0050	0.0050	0.0052	0.0055	0.0060	0.0009		31	-64	-0.71	0.4768	stable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	1	3.2	0	0.0031	0.0035	0.0036	0.0041	0.0049	0.0009			173	2.95	0.0032	increasing	2.86E-05
5405K01	PASADENA PARK #2	47	10	21.3	0	0.0010	0.0011	0.0013	0.0015	0.0022	0.0006			-110	-1.01	0.3115	stable	
5404A01	Plantes Ferry Park monitoring well	28	22	78.6	0	0.0000	0.0004	0.0000	0.0000	0.0032	0.0008						not applicable	
5310Q01	monitoring well at SCC	42	1	2.4	0	0.0024	0.0026	0.0025	0.0029	0.0044	0.0006			296	3.22	0.0013	increasing	8.33E-06
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	0	0.0	0.0032	0.0038	0.0040	0.0041	0.0042	0.0048	0.0003			-104	-0.95	0.3410	stable	
5411R03	Sullivan Park South, monitoring well	54	0	0.0	0.0015	0.0025	0.0028	0.0028	0.0030	0.0041	0.0005			-204	-1.52	0.1279	stable	
5411R05s	Springs at Sullivan Park	13	0	0.0	0.0019	0.0025	0.0029	0.0031	0.0032	0.0035	0.0005			22	1.30	0.1945	stable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	0	0.0	0.0022	0.0023	0.0023	0.0024	0.0024	0.0024	0.0001						not applicable	
5322A01	Third & Havana Nested Site, east	54	0	0.0	0.0018	0.0023	0.0026	0.0025	0.0027	0.0045	0.0005			-238	-1.78	0.0744	stable	
5322A03	Third & Havana Nested Site, mid	52	1	1.9	0.0000	0.0025	0.0026	0.0026	0.0028	0.0050	0.0006		1	-95	-0.75	0.4543	stable	
5212F01s	Three Springs	24	0	0.0	0.0015	0.0028	0.0030	0.0032	0.0033	0.0047	0.0007			35	0.85	0.3939	stable	
5505D01	Trent & Barker Road, monitoring well	53	0	0.0	0.0031	0.0048	0.0051	0.0050	0.0054	0.0073	0.0007		33	-408	-3.13	0.0017	decreasing	-1.32E-05
5307M01	Trinity School, Adams & Carlisle, City monitoring well	52	0	0.0	0.0016	0.0021	0.0023	0.0023	0.0024	0.0040	0.0004			156	1.23	0.2178	stable	
5426L03	VERA WATER & POWER, New Well 4	7	0	0.0	0.0035	0.0041	0.0041	0.0042	0.0044	0.0044	0.0003						not applicable	
6306P01s	Waikiki Springs	22	0	0.0	0.0013	0.0018	0.0022	0.0022	0.0024	0.0042	0.0007			-35	-0.97	0.3316	stable	
6306P01s2	Waikiki Springs-new location	4	0	0.0	0.0025	0.0025	0.0026	0.0026	0.0026	0.0026	0.0001						not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	50	0	0.0	0.0020	0.0031	0.0034	0.0034	0.0036	0.0053	0.0005			156	1.31	0.1915	stable	
TOTAL (ALL SITES)		2276	279	12.3	0.0000	0.0020	0.0028	0.0026	0.0036	0.0060	0.0016	1	185					

Trend Summary	9	#decreasing
	5	#increasing
	30	#stable
	7	#not applicable

Appendix E16. Cadmium (Cd) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	%ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (0.005 mg/L)	State RL (0.001 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	51	51	100.0	0	0	0	0	0	0	0							not applicable
5508M01	Barker Road Centennial Trail North, monitoring well	71	49	69.0	0	0	0.0001	0	0	0.0003	0.00010							not applicable
5508M02	Barker Road Centennial Trail South, monitoring well	70	70	100.0	0	0	0	0	0	0	0							not applicable
5507H01	Barker Road north of river, monitoring well	70	56	80.0	0	0	0.0001	0	0	0.0005	0.00012							not applicable
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	48	48	100.0	0	0	0	0	0	0	0							not applicable
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	50	50	100.0	0	0	0	0	0	0	0							not applicable
5308A02	CITY of SPOKANE-Nevada	50	50	100.0	0	0	0	0	0	0	0							not applicable
5322F01	CITY of SPOKANE-Ray	52	52	100.0	0	0	0	0	0	0	0							not applicable
5308H01	Denver & Marietta, City monitoring well	52	52	100.0	0	0	0	0	0	0	0							not applicable
6436N01	East Valley High School monitoring well	29	28	96.6	0	0	0	0	0	0	0							not applicable
5324G01	E. SPOKANE WTR DIST, Site 1	50	50	100.0	0	0	0	0	0	0	0							not applicable
5507A04	Euclid & Barker monitoring well at CID5	71	71	100.0	0	0	0	0	0	0	0							not applicable
5312C01	Felts Field City monitoring well	61	61	100.0	0	0	0	0	0	0	0							not applicable
6327N04	Fire Station Houston & Regal, No. Spokane WD	48	48	100.0	0	0	0	0	0	0	0							not applicable
6331J01	Franklin Park, City monitoring well	48	48	100.0	0	0	0	0	0	0	0							not applicable
5409C02	monitoring well Frederick & Bowdish	45	44	97.8	0	0	0	0	0	0.0002	0.00003							not applicable
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.0	0	0	0	0	0	0	0							not applicable
5311J05	Hale's Ale Nested Site, east	52	52	100.0	0	0	0	0	0	0	0							not applicable
5311J07	Hale's Ale Nested Site, mid	52	52	100.0	0	0	0	0	0	0	0							not applicable
6211K01	Spokane Fish Hatchery well	54	53	98.1	0	0	0	0	0	0.0015	0.00020		1					not applicable
6330J01	Holy Cross, Rhoades & Washington monitoring well	50	50	100.0	0	0	0	0	0	0	0							not applicable
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	50	50	100.0	0	0	0	0	0	0	0							not applicable
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	58	58	100.0	0	0	0	0	0	0	0							not applicable
6631M07	Idaho Road - East Farms monitoring well at CID11	59	59	100.0	0	0	0	0	0	0	0							not applicable
5213B01	I.E. COLD STORAGE	54	54	100.0	0	0	0	0	0	0	0							not applicable
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	53	53	100.0	0	0	0	0	0	0	0							not applicable
5517D05	Mission & Barker monitoring well at CID 4	71	71	100.0	0	0	0	0	0	0	0							not applicable
5415 E03	MODERN ELECT WATER, Site 11	30	30	100.0	0	0	0	0	0	0	0							not applicable
5408N01	MODERN ELECT WATER, Site 6	54	54	100.0	0	0	0	0	0	0	0							not applicable
5304G01	NE Community Center, City monitoring well	48	48	100.0	0	0	0	0	0	0	0							not applicable
5417R02	New Balfour Park monitoring well	23	23	100.0	0	0	0	0	0	0	0							not applicable
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	50	50	100.0	0	0	0	0	0	0	0							not applicable
5315L01	Olive & Fiske monitoring well	52	52	100.0	0	0	0	0	0	0	0							not applicable
5312H01	ORCHARD AVE IRRIG DIST, Site 1	41	41	100.0	0	0	0	0	0	0	0							not applicable
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	30	30	100.0	0	0	0	0	0	0	0							not applicable
5405K01	PASADENA PARK #2	46	46	100.0	0	0	0	0	0	0	0							not applicable
5404A01	Plantes Ferry Park monitoring well	28	28	100.0	0	0	0	0	0	0	0							not applicable
5310Q01	monitoring well at SCC	42	42	100.0	0	0	0	0	0	0	0							not applicable
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	47	100.0	0	0	0	0	0	0	0							not applicable
5411R03	Sullivan Park South, monitoring well	59	59	100.0	0	0	0	0	0	0	0							not applicable
5411R05s	Springs at Sullivan Park	13	13	100.0	0	0	0	0	0	0	0							not applicable
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.0	0	0	0	0	0	0	0							not applicable
5322A01	Third & Havana Nested Site, east	55	55	100.0	0	0	0	0	0	0	0							not applicable
5322A03	Third & Havana Nested Site, mid	52	52	100.0	0	0	0	0	0	0	0							not applicable
5212F01s	Three Springs	24	24	100.0	0	0	0	0	0	0	0							not applicable
5505D01	Trent & Barker Road, monitoring well	60	60	100.0	0	0	0	0	0	0	0							not applicable
5307M01	Trinity School, Adams & Carlisle, City monitoring well	52	52	100.0	0	0	0	0	0	0	0							not applicable
5426L03	VERA WATER & POWER, New Well 4	7	7	100.0	0	0	0	0	0	0	0							not applicable
6306P01s	Waikiki Springs	22	22	100.0	0	0	0	0	0	0	0							not applicable
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0	0	0	0	0							not applicable
6320D01	WHITWORTH WATER DIST. #2, Well 2A	50	50	100.0	0	0	0	0	0	0	0							not applicable
	TOTAL (ALL SITES)	2335	2296	98.3	0	0	4.55E-06	0	0	0	4.37E-05	0	1					

Trend Summary	0	#decreasing
	0	#increasing
	0	#stable
	51	#not applicable

Appendix E17. Chromium (Cr) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	%ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (0.1 mg/L)	State RL (0.007 mg/L)	S	z	p-value	20-yr Trend	
5323E01	6th & Havana monitoring well (MW-2)	50	43	86.0	0	0	0.0002	0	0	0.0030	0.0006						not applicable	
5508M01	Barker Road Centennial Trail North, monitoring well	54	52	96.3	0	0	0.0001	0	0	0.0020	0.0003						not applicable	
5508M02	Barker Road Centennial Trail South, monitoring well	54	46	85.2	0	0	0.0003	0	0	0.0055	0.0009						not applicable	
5507H01	Barker Road north of river, monitoring well	53	49	92.5	0	0	0.0006	0	0	0.0186	0.0029	1					not applicable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	47	44	93.6	0	0	0.0001	0	0	0.0020	0.0004						not applicable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	49	49	100.0	0	0	0	0	0	0	0						not applicable	
5308A02	CITY OF SPOKANE-Nevada	50	47	94.0	0	0	0.0001	0	0	0.0027	0.0005						not applicable	
5322F01	CITY OF SPOKANE-Ray	52	48	92.3	0	0	0.0001	0	0	0.0014	0.0003						not applicable	
5308H01	Denver & Marietta, City monitoring well	51	45	88.2	0	0	0.0002	0	0	0.0020	0.0006						not applicable	
6436N01	East Valley High School monitoring well	29	15	51.7	0	0	0.0013	0	0.0021	0.0080	0.0018	1					not applicable	
5324G01	E. SPOKANE WTR DIST, Site 1	48	44	91.7	0	0	0.0001	0	0	0.0016	0.0003						not applicable	
5507A04	Euclid & Barker monitoring well at CIDS	54	45	83.3	0	0	0.0002	0	0	0.0030	0.0006						not applicable	
5312C01	Felts Field City monitoring well	51	47	92.2	0	0	0.0001	0	0	0.0014	0.0003						not applicable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	47	31	66.0	0	0	0.0007	0	0.0012	0.0048	0.0012						not applicable	
6331J01	Franklin Park, City monitoring well	47	19	40.4	0	0	0.0021	0.0011	0.0020	0.0383	0.0056	1	-133	-1.26	0.2094	stable		
5409C02	monitoring well Frederick & Bowdish	45	42	93.3	0	0	0.0002	0	0	0.0052	0.0008						not applicable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.0	0	0	0	0	0	0	0						not applicable	
5311J05	Hale's Ale Nested Site, east	51	45	88.2	0	0	0.0002	0	0	0.0027	0.0006						not applicable	
5311J07	Hale's Ale Nested Site, mid	51	46	90.2	0	0	0.0001	0	0	0.0016	0.0004						not applicable	
6211K01	Spokane Fish Hatchery well	52	50	96.2	0	0	0.0001	0	0	0.0024	0.0004						not applicable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	49	30	61.2	0	0	0.0008	0	0.0012	0.0077	0.0014	1					not applicable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	49	32	65.3	0	0	0.0006	0	0.0011	0.0053	0.0012						not applicable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	50	39	78.0	0	0	0.0004	0	0	0.0050	0.0009						not applicable	
6631M07	Idaho Road - East Farms monitoring well at CID11	51	41	80.4	0	0	0.0003	0	0	0.0028	0.0007						not applicable	
5213B01	I.E. COLD STORAGE	52	47	90.4	0	0	0.0002	0	0	0.0058	0.0009						not applicable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	51	51	100.0	0	0	0	0	0	0	0						not applicable	
5517D05	Mission & Barker monitoring well at CID 4	54	45	83.3	0	0	0.0002	0	0.0000	0.0015	0.0004						not applicable	
5415E03	MODERN ELECT WATER, Site 11	30	30	100.0	0	0	0	0	0	0	0						not applicable	
5408N01	MODERN ELECT WATER, Site 6	52	51	98.1	0	0	0	0	0	0.0011	0.0002						not applicable	
5304G01	NE Community Center, City monitoring well	47	22	46.8	0	0	0.0014	0.0011	0.0019	0.0069	0.0019		-328	-3.17	0.0015	decreasing	-3.64E-05	
5417R02	New Balfour Park monitoring well	23	17	73.9	0	0	0.0008	0	0.0005	0.0098	0.0021	1					not applicable	
5328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	49	48	98.0	0	0	0	0	0	0.0010	0.0001						not applicable	
5315L01	Olive & Fiske monitoring well	51	34	66.7	0	0	0.0008	0	0.0012	0.0102	0.0017	1					not applicable	
5312H01	ORCHARD AVE IRRIG DIST, Site 1	31	31	100.0	0	0	0	0	0	0	0						not applicable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	30	29	96.7	0	0	0.0001	0	0	0.0015	0.0003						not applicable	
5405K01	PASADENA PARK #2	46	42	91.3	0	0	0.0001	0	0	0.0019	0.0004						not applicable	
5404A01	Plantes Ferry Park monitoring well	28	28	100.0	0	0	0	0	0	0	0						not applicable	
5310Q01	monitoring well at SCC	42	38	90.5	0	0	0.0001	0	0	0.0017	0.0004						not applicable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	46	45	97.8	0	0	0	0	0	0.0013	0.0002						not applicable	
5411R03	Sullivan Park South, monitoring well	52	41	78.8	0	0	0.0004	0	0	0.0047	0.0009						not applicable	
5411R05s	Springs at Sullivan Park	13	13	100.0	0	0	0	0	0	0	0						not applicable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.0	0	0	0	0	0	0	0						not applicable	
5322A01	Third & Havana Nested Site, east	54	43	79.6	0	0	0.0004	0	0	0.0056	0.0010						not applicable	
5322A03	Third & Havana Nested Site, mid	51	44	86.3	0	0	0.0002	0	0	0.0044	0.0007						not applicable	
5212F01s	Three Springs	24	24	100.0	0	0	0	0	0	0	0						not applicable	
5505D01	Trent & Barker Road, monitoring well	52	40	76.9	0	0	0.0004	0	0	0.0041	0.0009						not applicable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	51	35	68.6	0	0	0.0006	0	0.0011	0.0053	0.0010						not applicable	
5426L03	VERA WATER & POWER, New Well 4	7	7	100.0	0	0	0	0	0	0	0						not applicable	
6306P01s	Waikiki Springs	22	22	100.0	0	0	0	0	0	0	0						not applicable	
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0	0	0	0	0						not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	49	48	98.0	0	0	0	0	0	0.0011	0.0002						not applicable	
	TOTAL (ALL SITES)	2172	1855	85.4	0	0	0.0003	0	0	0.0383	0.0013	0	6					

Trend Summary	1	#decreasing
	0	#increasing
	1	#stable
	49	#not applicable

Appendix E18. Copper (Cu) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (1.3 mg/L)	State RL (0.02 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	55	51	92.7	0	0	0.0001	0	0	0.0029	0.0005							not applicable
5508M01	Barker Road Centennial Trail North, monitoring wel	70	62	88.6	0	0	0.0001	0	0	0.0014	0.0003							not applicable
5508M02	Barker Road Centennial Trail South, monitoring well	69	51	73.9	0	0	0.0009	0	0.0004	0.0164	0.0029							not applicable
5507H01	Barker Road north of river, monitoring wel	69	40	58.0	0	0	0.0007	0	0.0012	0.0057	0.0011							not applicable
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	29	58.0	0	0	0.0008	0	0.0014	0.0047	0.0011		1					not applicable
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	41	78.8	0	0	0.0003	0	0	0.0024	0.0007							not applicable
5308A02	CITY of SPOKANE-Nevada	52	14	26.9	0	0	0.0044	0.0014	0.0035	0.0648	0.0101		3	38	0.30	0.7678		stable
5322F01	CITY of SPOKANE-Ray	55	14	25.5	0	0.0004	0.0017	0.0012	0.0019	0.0082	0.0018			224	1.64	0.1017		stable
5308H01	Denver & Marietta, City monitoring well	58	52	89.7	0	0	0.0002	0	0	0.0045	0.0007							not applicable
6436N01	East Valley High School monitoring well	29	17	58.6	0	0	0.0009	0	0.0013	0.0099	0.0019							not applicable
5324G01	E. SPOKANE WTR DIST, Site 1	54	1	1.9	0	0.0018	0.0036	0.0023	0.0043	0.0235	0.0036		1	-414	-3.08	0.0020	decreasing	-2.86E-05
5507A04	Euclid & Barker monitoring well at CID5	70	62	88.6	0	0	0.0001	0	0	0.0027	0.0004							not applicable
5312C01	Felts Field City monitoring well	67	26	38.8	0	0	0.0012	0.0011	0.0016	0.0089	0.0014			-28	-0.15	0.8801		stable
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	45	84.9	0	0	0.0002	0	0	0.0022	0.0006							not applicable
6331J01	Franklin Park, City monitoring well	53	44	83.0	0	0	0.0003	0	0	0.0070	0.0010							not applicable
5409C02	monitoring well Frederick & Bowdish	45	44	97.8	0	0	0.0000	0	0	0.0016	0.0002							not applicable
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.0	0	0	0.0000	0	0	0	0							not applicable
5311J05	Hale's Ale Nested Site, east	58	52	89.7	0	0	0.0003	0	0	0.0090	0.0012							not applicable
5311J07	Hale's Ale Nested Site, mid	58	51	87.9	0	0	0.0001	0	0	0.0014	0.0004							not applicable
6211K01	Spokane Fish Hatchery well	58	29	50.0	0	0	0.0051	0.0005	0.0020	0.1800	0.0237		2					not applicable
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	49	87.5	0	0	0.0009	0	0	0.0300	0.0044							not applicable
6524R01	Idaho Road 1000 ft south of Trent, monitoring wel	55	51	92.7	0	0	0.0001	0	0	0.0028	0.0005							not applicable
6525R01	Idaho Road 300 ft south of pipeline, monitoring wel	58	51	87.9	0	0	0.0003	0	0	0.0061	0.0012							not applicable
6631M07	Idaho Road - East Farms monitoring well at CID11	58	48	82.8	0	0	0.0016	0	0	0.0795	0.0104		1					not applicable
5213B01	I.E. COLD STORAGE	58	20	34.5	0	0	0.0010	0.0011	0.0013	0.0077	0.0012			300	2.06	0.0397	increasing	3.70E-06
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	7	12.3	0	0.0011	0.0029	0.0018	0.0026	0.0414	0.0058		1	-412	-2.84	0.0046	decreasing	-2.78E-05
5517D05	Mission & Barker monitoring well at CID 4	70	63	90.0	0	0	0.0001	0	0	0.0014	0.0003							not applicable
5415 E03	MODERN ELECT WATER, Site 11	30	27	90.0	0	0	0.0007	0	0	0.0163	0.0030							not applicable
5408N01	MODERN ELECT WATER, Site 6	58	33	56.9	0	0	0.0027	0	0.0015	0.0380	0.0072		3					not applicable
5304G01	NE Community Center, City monitoring well	53	36	67.9	0	0	0.0005	0	0.0012	0.0058	0.0010							not applicable
5417R02	New Balfour Park monitoring well	23	22	95.7	0	0	0.0002	0	0	0.0037	0.0008							not applicable
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	22	40.7	0	0	0.0036	0.0011	0.0013	0.1460	0.0198		1	-86	-0.66	0.5096	stable	
5315L01	Olive & Fiske monitoring well	58	49	84.5	0	0	0.0005	0	0	0.0067	0.0013							not applicable
5312H01	ORCHARD AVE IRRIG DIST, Site 1	44	29	65.9	0	0	0.0009	0	0.0012	0.0092	0.0018							not applicable
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	9	29.0	0	0	0.0026	0.0023	0.0030	0.0179	0.0035			-210	-3.60	0.0003	decreasing	-6.92E-05
5405K01	PASADENA PARK #2	46	8	17.4	0	0.0013	0.0053	0.0019	0.0035	0.1250	0.0183		1	-14	-0.12	0.9016	stable	
5404A01	Plantes Ferry Park monitoring well	28	17	60.7	0	0	0.0014	0	0.0014	0.0113	0.0026							not applicable
5310Q01	monitoring well at SCC	42	41	97.6	0	0	0.0000	0	0	0.0007	0.0001							not applicable
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	6	12.8	0	0.001	0.0020	0.0015	0.0026	0.0148	0.0023			-203	-1.86	0.0633	stable	
5411R03	Sullivan Park South, monitoring well	59	49	83.1	0	0	0.0002	0	0	0.0022	0.0005							not applicable
5411R05s	Springs at Sullivan Park	13	13	100.0	0	0	0.0000	0	0	0	0							not applicable
5411R06	Sullivan Road and Krispy Kreme, monitoring wel	3	3	100.0	0	0	0.0000	0	0	0	0							not applicable
5322A01	Third & Havana Nested Site, east	60	51	85.0	0	0	0.0002	0	0	0.0032	0.0007							not applicable
5322A03	Third & Havana Nested Site, mid	58	55	94.8	0	0	0.0001	0	0	0.0035	0.0005							not applicable
5212F01s	Three Springs	24	14	58.3	0	0	0.0006	0	0.0012	0.0019	0.0007							not applicable
5505D01	Trent & Barker Road, monitoring well	59	48	81.4	0	0	0.0003	0	0	0.0020	0.0006							not applicable
5307M01	Trinity School, Adams & Carlisle, City monitoring wel	58	55	94.8	0	0	0.0001	0	0	0.0018	0.0003							not applicable
5426L03	VERA WATER & POWER, New Well 4	7	5	71.4	0	0	0.0003	0	0.0006	0.0013	0.0006							not applicable
6306P01s	Waikiki Springs	22	22	100.0	0	0	0.0000	0	0	0	0							not applicable
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0.0000	0	0	0	0							not applicable
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	41	77.4	0	0	0.0008	0	0	0.0082	0.0018							not applicable
TOTAL (ALL SITES)		2445	1697	69.4	0	0	0.0008	0	0.0011	0.0027	0.0062	0	14					

Trend Summary	3	#decreasing
	1	#increasing
	6	#stable
	41	#not applicable

Appendix E19. Iron (Fe) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	# NDs	% ND	Min	Q1	Average	Median	Q3	Max	StDev	Secondary (0.3 mg/L)	State RL (0.1 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	46	35	76.1	0	0	0.0375	0	0	0.398	0.0955	1	6				not applicable	
5508M01	Barker Road Centennial Trail North, monitoring well	58	46	79.3	0	0	0.0282	0	0	0.637	0.0976	1	5				not applicable	
5508M02	Barker Road Centennial Trail South, monitoring well	58	36	62.1	0	0	0.1921	0	0.0695	4.39	0.6210	9	13				not applicable	
5507H01	Barker Road north of river, monitoring well	57	27	47.4	0	0	0.1314	0.0173	0.0599	2.79	0.3927	6	12	-375	-2.73	0.0064	decreasing	-0.0004
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	41	32	78.0	0	0	0.0183	0	0	0.199	0.0451	0	3				not applicable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	43	39	90.7	0	0	0.0093	0	0	0.214	0.0407	0	2				not applicable	
5308A02	CITY of SPOKANE-Nevada	43	35	81.4	0	0	0.0652	0	0	0.8285	0.1962	4	5				not applicable	
5322F01	CITY of SPOKANE-Ray	46	41	89.1	0	0	0.0362	0	0	1.11	0.1722	2	3				not applicable	
5308H01	Denver & Marietta, City monitoring well	49	43	87.8	0	0	0.0312	0	0	0.836	0.1316	2	3				not applicable	
6436N01	East Valley High School monitoring well	20	7	35.0	0	0	0.3144	0.0990	0.4620	1.55	0.4362	6	10	-75	-2.46	0.0139	decreasing	-0.0219
5324G01	E. SPOKANE WTR DIST, Site 1	45	22	48.9	0	0	0.2027	0.0422	0.2160	2.2	0.3917	8	19	-75	-0.77	0.4402	stable	
5507A04	Euclid & Barker monitoring well at CID5	58	42	72.4	0	0	0.0712	0	0.0117	2	0.2808	4	7				not applicable	
5312C01	Felts Field City monitoring well	49	36	73.5	0	0	0.0517	0	0.0160	0.61	0.1192	2	9				not applicable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	44	27	61.4	0	0	0.1323	0	0.0394	1.39	0.3054	8	9				not applicable	
6331J01	Franklin Park, City monitoring well	44	23	52.3	0	0	0.3832	0	0.2118	8.33	1.2781	11	13				not applicable	
5409C02	monitoring well Frederick & Bowdish	36	3	8.3	0	0.0913	0.5390	0.2385	0.4415	5.77	1.0202	15	27	71	0.95	0.3402	stable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	15	14	93.3	0	0	0.0019	0	0	0.0291	0.0075	0	0				not applicable	
5311J05	Hale's Ale Nested Site, east	49	44	89.8	0	0	0.0056	0	0	0.211	0.0303	0	1				not applicable	
5311J07	Hale's Ale Nested Site, mid	49	45	91.8	0	0	0.0176	0	0	0.421	0.0825	2	2				not applicable	
6211K01	Spokane Fish Hatchery well	49	44	89.8	0	0	0.0025	0	0	0.041	0.0084	0	0				not applicable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	47	32	68.1	0	0	0.0854	0	0.0346	1.71	0.2664	3	8				not applicable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	46	26	56.5	0	0	0.1519	0	0.0562	2.14	0.4332	6	10				not applicable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	55	34	61.8	0	0	0.0912	0	0.0470	1.19	0.2173	7	11				not applicable	
6631M07	Idaho Road - East Farms monitoring well at CID11	55	40	72.7	0	0	0.1336	0	0.0305	2.57	0.3961	8	11				not applicable	
5213B01	I.E. COLD STORAGE	49	44	89.8	0	0	0.0256	0	0	0.3700	0.0866	3	4				not applicable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	48	44	91.7	0	0	0.0300	0	0	1.11	0.1650	2	2				not applicable	
5517D05	Mission & Barker monitoring well at CID 4	58	39	67.2	0	0	0.1062	0	0.0317	1.34	0.2705	7	10				not applicable	
5415 E03	MODERN ELECT WATER, Site 11	21	21	100.0	0	0	0	0	0	0	0	0	0				not applicable	
5408N01	MODERN ELECT WATER, Site 6	49	38	77.6	0	0	0.0936	0	0	1.80	0.3055	4	9				not applicable	
5304G01	NE Community Center, City monitoring well	44	25	56.8	0	0	0.0927	0	0.1298	0.85	0.1793	5	13				not applicable	
5417R02	New Balfour Park monitoring well	14	12	85.7	0	0	0.0225	0	0	0.218	0.0619	0	1				not applicable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	45	39	86.7	0	0	0.0127	0	0	0.249	0.0477	0	2				not applicable	
5315L01	Olive & Fiske monitoring well	49	32	65.3	0	0	0.5328	0	0.0330	8.03	1.4865	9	10				not applicable	
5312H01	ORCHARD AVE IRRIG DIST, Site 1	27	22	81.5	0	0	0.0265	0	0	0.482	0.0978	1	2				not applicable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	23	15	65.2	0	0	0.0452	0	0.0365	0.401	0.0960	1	4				not applicable	
5405K01	PASADENA PARK #2	37	32	86.5	0	0	0.0081	0	0	0.18	0.0306	0	1				not applicable	
5404A01	Plantess Ferry Park monitoring well	19	0	0.0	5.37	5.77	6.63	6.14	6.91	10.00	1.3814	19	19	-102	-3.54	0.0004	decreasing	-0.1475
5310Q01	monitoring well at SCC	33	5	15.2	0	0.0660	0.3001	0.1475	0.3350	2.44	0.4447	12	21	-4	-0.05	0.9629	stable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	38	36	94.7	0	0	0.0007	0	0	0.0143	0.0030	0	0				not applicable	
5411R03	Sullivan Park South, monitoring well	56	36	64.3	0	0	0.1005	0	0.0337	1.21	0.2739	5	9				not applicable	
5411R05s	Springs at Sullivan Park	4	3	75.0	0	0	0.0053	0	0.0053	0.0211	0.0106	0	0				not applicable	
5411R06	Sullivan Road and Krispy Krems, monitoring well	0	---	---	---	---	---	---	---	---	---	0	0				not applicable	
5322A01	Third & Havana Nested Site, east	51	31	60.8	0	0	0.1102	0	0.0449	1.64	0.2829	7	10				not applicable	
5322A03	Third & Havana Nested Site, mid	49	39	79.6	0	0	0.0267	0	0	0.45	0.0849	2	4				not applicable	
5212F01s	Three Springs	15	14	93.3	0	0	0.0027	0	0	0.041	0.0106	0	0				not applicable	
5505D01	Trent & Barker Road, monitoring well	56	40	71.4	0	0	0.1169	0	0.0309	2.23	0.3667	5	9				not applicable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	49	43	87.8	0	0	0.0055	0	0	0.1635	0.0240	0	1				not applicable	
5426L03	VERA WATER & POWER, New Well 4	0	---	---	---	---	---	---	---	---	---	0	0				not applicable	
6306P01s	Waikiki Springs	15	14	93.3	0	0	0.0021	0	0	0.0321	0.0083	0	0				not applicable	
6306P01s2	Waikiki Springs-new location	0	---	---	---	---	---	---	---	---	---	0	0				not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	44	43	97.7	0	0	0.0373	0	0	1.64	0.2472	1	1				not applicable	
TOTAL (ALL SITES)		1995	1440	72.2	0	0	0.0126	0	0.0181	0.0451	0.7803	188	321					

Trend Summary	3	#decreasing
	0	#increasing
	3	#stable
	45	#not applicable

Appendix E20. Lead (Pb) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)		
		Count	# NDs	% ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (0.015 mg/L)	State RL (0.001 mg/L)	S	z	p-value	20-yr Trend			
5323 E01	6th & Havana monitoring well (MW-2)	55	55	100.0	0	0	0	0	0	0	0						not applicable			
5508M01	Barker Road Centennial Trail North, monitoring wel	76	76	100.0	0	0	0	0	0	0							not applicable			
5508M02	Barker Road Centennial Trail South, monitoring well	75	72	96.0	0	0	9.87E-05	0	0	0.0036	0.0005						3	not applicable		
5507H01	Barker Road north of river, monitoring well	75	56	74.7	0	0	0.0007	0	0.00005	0.0285	0.0034	1					14	not applicable		
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	49	98.0	0	0	2.60E-05	0	0	0.0013	0.0002						1	not applicable		
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	51	98.1	0	0	3.08E-05	0	0	0.0016	0.0002						1	not applicable		
5308A02	CITY of SPOKANE-Nevada	52	44	84.6	0	0	0.0009	0	0	0.0251	0.0038	1					7	not applicable		
5322F01	CITY of SPOKANE-Ray	55	51	92.7	0	0	0.0001	0	0	0.0022	0.0004						4	not applicable		
5308H01	Denver & Marietta, City monitoring well	58	57	98.3	0	0	3.45E-05	0	0	0.0020	0.0003						1	not applicable		
6436N01	East Valley High School monitoring well	29	26	89.7	0	0	0.0002	0	0	0.0029	0.0006						3	not applicable		
5324G01	E. SPOKANE WTR DIST, Site 1	54	36	66.7	0	0	0.0007	0	0.001175	0.0074	0.0013						18	not applicable		
5507A04	Euclid & Barker monitoring well at CID5	76	72	94.7	0	0	3.95E-05	0	0	0.0016	0.0002						2	not applicable		
5312C01	Felts Field City monitoring well	67	67	100.0	0	0	0	0	0	0	0								not applicable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	52	98.1	0	0	2.26E-05	0	0	0.0012	0.0002						1	not applicable		
6331J01	Franklin Park, City monitoring well	53	51	96.2	0	0	9.62E-05	0	0	0.0036	0.0005						2	not applicable		
5409C02	monitoring well Frederick & Bowdish	45	45	100.0	0	0	0	0	0	0	0								not applicable	
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.0	0	0	0	0	0	0	0								not applicable	
5311J05	Hale's Ale Nested Site, east	58	58	100.0	0	0	0	0	0	0	0								not applicable	
5311J07	Hale's Ale Nested Site, mid	58	58	100.0	0	0	0	0	0	0	0								not applicable	
6211K01	Spokane Fish Hatchery well	58	49	84.5	0	0	0.0002	0	0	0.0019	0.0006						9	not applicable		
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	54	96.4	0	0	0.0001	0	0	0.0047	0.0006						2	not applicable		
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	55	52	94.5	0	0	0.0001	0	0	0.0016	0.0003						3	not applicable		
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	64	60	93.8	0	0	8.59E-05	0	0	0.0016	0.0003						4	not applicable		
6631M07	Idaho Road - East Farms monitoring well at CID11	64	61	95.3	0	0	0.0002	0	0	0.0117	0.0015						3	not applicable		
5213B01	I.E. COLD STORAGE	58	56	96.6	0	0	7.24E-05	0	0	0.0027	0.0004						2	not applicable		
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	54	94.7	0	0	0.0002	0	0	0.0064	0.0009						3	not applicable		
5517D05	Mission & Barker monitoring well at CID 4	76	72	94.7	0	0	2.89E-05	0	0	0.0010	0.0002						2	not applicable		
5415 E03	MODERN ELECT WATER, Site 11	30	29	96.7	0	0	0.0001	0	0	0.0018	0.0003						1	not applicable		
5408N01	MODERN ELECT WATER, Site 6	59	52	88.1	0	0	0.0006	0	0	0.0167	0.0024	1					7	not applicable		
5304G01	NE Community Center, City monitoring well	53	50	94.3	0	0	9.25E-05	0	0	0.0019	0.0004						3	not applicable		
5417R02	New Balfour Park monitoring well	23	22	95.7	0	0	0.0002	0	0	0.0039	0.0008						1	not applicable		
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	54	100.0	0	0	0	0	0	0	0								not applicable	
5315L01	Olive & Fiske monitoring well	58	51	87.9	0	0	0.0003	0	0	0.0047	0.0008						7	not applicable		
5312H01	ORCHARD AVE IRRIG DIST, Site 1	44	41	93.2	0	0	0.0004	0	0	0.0122	0.0019						3	not applicable		
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	30	96.8	0	0	8.39E-05	0	0	0.0026	0.0005						1	not applicable		
5405K01	PASADENA PARK #2	46	40	87.0	0	0	0.0004	0	0	0.0081	0.0013						6	not applicable		
5404A01	Plantas Ferry Park monitoring well	28	28	100.0	0	0	0	0	0	0	0								not applicable	
5310Q01	monitoring well at SCC	42	42	100.0	0	0	0	0	0	0	0								not applicable	
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	43	91.5	0	0	0.000168	0	0	0.0026	0.0006						4	not applicable		
5411R03	Sullivan Park South, monitoring well	64	60	93.8	0	0	7.81E-05	0	0	0.0015	0.0003						4	not applicable		
5411R05s	Springs at Sullivan Park	13	11	84.6	0	0	0.0003	0	0	0.0022	0.0008						2	not applicable		
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.0	0	0	0	0	0	0	0								not applicable	
5322A01	Third & Havana Nested Site, east	60	57	95.0	0	0	7.83E-05	0	0	0.0017	0.0003						3	not applicable		
5322A03	Third & Havana Nested Site, mid	58	57	98.3	0	0	2.76E-05	0	0	0.0016	0.0002						1	not applicable		
5212F01s	Three Springs	24	24	100.0	0	0	0	0	0	0	0								not applicable	
5505D01	Trent & Barker Road, monitoring well	65	61	93.8	0	0	7.23E-05	0	0	0.0013	0.0003						4	not applicable		
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	57	98.3	0	0	3.28E-05	0	0	0.0019	0.0002						1	not applicable		
5426L03	VERA WATER & POWER, New Well 4	7	7	100.0	0	0	0	0	0	0	0								not applicable	
6306P01s	Waikiki Springs	22	22	100.0	0	0	0	0	0	0	0								not applicable	
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0	0	0	0	0								not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	48	90.6	0	0	0.0007	0	0	0.0287	0.0040	1					5	not applicable		
TOTAL (ALL SITES)		2499	2351	94.1	0	0	0	0	0	0	0.0012	4					138			

Trend Summary	0	#decreasing
	0	#increasing
	0	#stable
	51	#not applicable

Appendix E21. Manganese (Mn) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	# ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	Secondary (0.05 mg/L)	State RL (0.01 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	55	53	96.36	0	0	0.0001	0	0.0	0.0033	0.0005						not applicable	
5508M01	Barker Road Centennial Trail North, monitoring well	60	54	90.00	0	0	0.0002	0	0.0	0.0030	0.0006						not applicable	
5508M02	Barker Road Centennial Trail South, monitoring well	60	47	78.33	0	0	0.0044	0	0.0	0.1090	0.0156						not applicable	
5507H01	Barker Road north of river, monitoring well	59	40	67.80	0	0	0.0037	0	0.0010	0.1170	0.0156	1	7				not applicable	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	50	100.00	0	0	0	0	0	0	0						not applicable	
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	52	100.00	0	0	0	0	0	0	0						not applicable	
5308A02	CITY of SPOKANE-Nevada	52	51	98.08	0	0	0.0002	0	0	0.0090	0.0012						not applicable	
5322F01	CITY of SPOKANE-Ray	55	54	98.18	0	0	0	0	0	0.0010	0.0001						not applicable	
5308H01	Denver & Marietta, City monitoring well	58	56	96.55	0	0	0.0006	0	0	0.0320	0.0042						not applicable	
6436N01	East Valley High School monitoring well	29	10	34.48	0	0	0.0043	0.0019	0.0049	0.0294	0.0068						stable	
5324G01	E. SPOKANE WTR DIST, Site 1	54	50	92.59	0	0	0.0004	0	0	0.0148	0.0020						not applicable	
5507A04	Euclid & Barker monitoring well at CID5	60	58	96.67	0	0	0.0008	0	0	0.0323	0.0046						not applicable	
5312C01	Felts Field City monitoring well	58	53	91.38	0	0	0.0003	0	0	0.0066	0.0012						not applicable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	44	83.02	0	0	0.0009	0	0	0.0188	0.0031						not applicable	
6331J01	Franklin Park, City monitoring well	53	38	71.70	0	0	0.0112	0	0.0014	0.4320	0.0596	2	7				not applicable	
5409C02	monitoring well Frederick & Bowdish	45	15	33.33	0	0	0.0111	0.0100	0.0140	0.0590	0.0127	2	23	198	1.97	0.0493	increasing	0.0002
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	23	95.83	0	0	0.0002	0	0	0.0043	0.0009						not applicable	
5311J05	Hale's Ale Nested Site, east	58	58	100.00	0	0	0	0	0	0	0						not applicable	
5311J07	Hale's Ale Nested Site, mid	58	57	98.28	0	0	0	0	0	0.0014	0.0002						not applicable	
6211K01	Spokane Fish Hatchery well	58	57	98.28	0	0	0	0	0	0.0007	0.0001						not applicable	
6330I01	Holy Cross, Rhoades & Washington monitoring well	56	49	87.50	0	0	0.0009	0	0	0.0235	0.0035						not applicable	
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	55	46	83.64	0	0	0.0017	0	0	0.0314	0.0058						not applicable	
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	57	48	84.21	0	0	0.0013	0	0	0.0160	0.0038						not applicable	
6631M07	Idaho Road - East Farms monitoring well at CID11	57	51	89.47	0	0	0.0013	0	0	0.0473	0.0065						not applicable	
5213B01	I.E. COLD STORAGE	58	58	100.00	0	0	0	0	0	0	0						not applicable	
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	56	98.25	0	0	0.0003	0	0	0.0150	0.0020						not applicable	
5517D05	Mission & Barker monitoring well at CID 4	60	51	85.00	0	0	0.0010	0	0	0.0218	0.0036						not applicable	
5415 E03	MODERN ELECT WATER, Site 11	30	30	100.00	0	0	0	0	0	0	0						not applicable	
5408N01	MODERN ELECT WATER, Site 6	58	58	100.00	0	0	0	0	0	0	0						not applicable	
5304G01	NE Community Center, City monitoring well	53	44	83.02	0	0	0.0020	0	0	0.0396	0.0066						not applicable	
5417R02	New Balfour Park monitoring well	23	16	69.57	0	0	0.0030	0	0.0009	0.0588	0.0122	1	1				not applicable	
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	54	100.00	0	0	0	0	0	0	0						not applicable	
5315L01	Olive & Fiske monitoring well	58	50	86.21	0	0	0.0068	0	0	0.1220	0.0219	4	6				not applicable	
5312H01	ORCHARD AVE IRRIG DIST, Site 1	36	36	100.00	0	0	0	0	0	0	0						not applicable	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	28	90.32	0	0	0.0072	0	0	0.1750	0.0318	1	3				not applicable	
5405K01	PASADENA PARK #2	46	46	100.00	0	0	0	0	0	0	0						not applicable	
5404A01	Plantes Ferry Park monitoring well	28	0	0.00	0.302	0.33975	0.4009	0.3590	0.3768	1.1100	0.1590	28	28	-240	-4.72	2.32E-06	decreasing	-0.0045
5310Q01	monitoring well at SCC	42	16	38.10	0	0	0.0066	0.0036	0.0105	0.0309	0.0084						increasing	4.91E-05
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	47	100.00	0	0	0	0	0	0	0						not applicable	
5411R03	Sullivan Park South, monitoring well	58	49	84.48	0	0	0.0019	0	0	0.0298	0.0065						not applicable	
5411R05s	Springs at Sullivan Park	13	10	76.92	0	0	0.0007	0	0	0.0054	0.0016						not applicable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.00	0	0	0	0	0	0	0						not applicable	
5322A01	Third & Havana Nested Site, east	60	51	85.00	0	0	0.0014	0	0	0.0328	0.0054						not applicable	
5322A03	Third & Havana Nested Site, mid	58	53	91.38	0	0	0.0002	0	0	0.0033	0.0007						not applicable	
5212F01s	Three Springs	24	24	100.00	0	0	0	0	0	0	0						not applicable	
5505D01	Trent & Barker Road, monitoring well	58	52	89.66	0	0	0.0014	0	0	0.0300	0.0050						not applicable	
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	57	98.28	0	0	0	0	0	0.0014	0.0002						not applicable	
5426L03	VERA WATER & POWER, New Well 4	7	7	100.00	0	0	0	0	0	0	0						not applicable	
6306P01s	Waikiki Springs	22	21	95.45	0	0	0.0001	0	0	0.0019	0.0004						not applicable	
6306P01s2	Waikiki Springs-new location	4	4	100.00	0	0	0	0	0	0	0						not applicable	
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	52	98.11	0	0	0	0	0	0.0185	0.0025						not applicable	
TOTAL (ALL SITES)		2375	2087	87.87	0	0	0	0	0	0	0.0478	40	128					

Trend Summary	1	#decreasing
	2	#increasing
	1	#stable
	47	#not applicable

Appendix E22. Mercury (Hg) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results			
		Count	# ND	% ND	Min	Q1	Average	Median	Q3	Max	StDev	MCL (0.002 mg/L)	State RL (0.0002 mg/L)	S	z	p-value	20-yr Trend
5323 E01	6th & Havana monitoring well (MW-2)	55	51	92.73	0	0	0	0	0	0	0						not applicable
5508M01	Barker Road Centennial Trail North, monitoring well	76	62	81.58	0	0	0	0	0	0	0						not applicable
5508M02	Barker Road Centennial Trail South, monitoring well	75	61	81.33	0	0	0	0	0	0	0						not applicable
5507H01	Barker Road north of river, monitoring well	75	61	81.33	0	0	0	0	0	0	0						not applicable
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	48	96.00	0	0	0	0	0	0	0						not applicable
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	50	96.15	0	0	0	0	0	0	0						not applicable
5308A02	CITY of SPOKANE-Nevada	52	50	96.15	0	0	0	0	0	0	0						not applicable
5322F01	CITY of SPOKANE-Ray	54	52	96.30	0	0	0	0	0	0	0						not applicable
5308H01	Denver & Marietta, City monitoring well	58	52	89.66	0	0	0	0	0	0	0						not applicable
6436N01	East Valley High School monitoring well	29	28	96.55	0	0	6.21E-05	0	0	0.0018	0.0003		1				not applicable
5324G01	E. SPOKANE WTR DIST, Site 1	54	50	92.59	0	0	0	0	0	0	0						not applicable
5507A04	Euclid & Barker monitoring well at CID5	76	62	81.58	0	0	0	0	0	0	0						not applicable
5312C01	Felts Field City monitoring well	67	61	91.04	0	0	0	0	0	0	0						not applicable
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	47	88.68	0	0	2.08E-06	0	0	0.0001	1.44E-05						not applicable
6331J01	Franklin Park, City monitoring well	53	48	90.57	0	0	0	0	0	0	0						not applicable
5409C02	monitoring well Frederick & Bowdish	44	44	100.00	0	0	6.67E-06	0	0	0.0003	4.47E-05		1				not applicable
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.00	0	0	0	0	0	0	0						not applicable
5311J05	Hale's Ale Nested Site, east	58	52	89.66	0	0	0	0	0	0	0						not applicable
5311J07	Hale's Ale Nested Site, mid	58	52	89.66	0	0	0	0	0	0	0						not applicable
6211K01	Spokane Fish Hatchery well	58	54	93.10	0	0	0	0	0	0	0						not applicable
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	50	89.29	0	0	0	0	0	0	0						not applicable
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	55	50	90.91	0	0	0	0	0	0	0						not applicable
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	64	50	78.13	0	0	1.18E-05	0	0	0.0006	8.4E-05		1				not applicable
6631M07	Idaho Road - East Farms monitoring well at CID11	64	52	81.25	0	0	0	0	0	0	0						not applicable
5213B01	I.E. COLD STORAGE	58	54	93.10	0	0	0	0	0	0	0						not applicable
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	53	92.98	0	0	0	0	0	0	0						not applicable
5517D05	Mission & Barker monitoring well at CID 4	76	61	80.26	0	0	6.45E-06	0	0	0.0004	5.08E-05		1				not applicable
5415 E03	MODERN ELECT WATER, Site 11	30	30	100.00	0	0	0	0	0	0	0						not applicable
5408N01	MODERN ELECT WATER, Site 6	58	54	93.10	0	0	0	0	0	0	0						not applicable
5304G01	NE Community Center, City monitoring well	53	48	90.57	0	0	0	0	0	0	0						not applicable
5417R02	New Balfour Park monitoring well	23	23	100.00	0	0	0	0	0	0	0						not applicable
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	50	92.59	0	0	0	0	0	0	0						not applicable
5315L01	Olive & Fiske monitoring well	58	52	89.66	0	0	0	0	0	0	0						not applicable
5312H01	ORCHARD AVE IRRIG DIST, Site 1	44	41	93.18	0	0	0	0	0	0	0						not applicable
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	30	96.77	0	0	0	0	0	0	0						not applicable
5405K01	PASADENA PARK #2	46	46	100.00	0	0	0	0	0	0	0						not applicable
5404A01	Plantas Ferry Park monitoring well	27	26	96.30	0	0	5.00E-05	0	0	0.0012	0.0002		2				not applicable
5310Q01	monitoring well at SCC	42	42	100.00	0	0	0	0	0	0	0						not applicable
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	47	100.00	0	0	0	0	0	0	0						not applicable
5411R03	Sullivan Park South, monitoring well	64	51	79.69	0	0	0	0	0	0	0						not applicable
5411R05s	Springs at Sullivan Park	13	13	100.00	0	0	0	0	0	0	0						not applicable
5411R06	Sullivan Road and Krispy Kreme, monitoring well	3	3	100.00	0	0	0	0	0	0	0						not applicable
5322A01	Third & Havana Nested Site, east	60	53	88.33	0	0	0	0	0	0	0						not applicable
5322A03	Third & Havana Nested Site, mid	58	52	89.66	0	0	0	0	0	0	0						not applicable
5212F01s	Three Springs	24	24	100.00	0	0	0	0	0	0	0						not applicable
5505D01	Trent & Barker Road, monitoring well	65	53	81.54	0	0	0	0	0	0	0						not applicable
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	52	89.66	0	0	0	0	0	0	0						not applicable
5426L03	VERA WATER & POWER, New Well 4	7	7	100.00	0	0	0	0	0	0	0						not applicable
6306P01s	Waikiki Springs	22	22	100.00	0	0	0	0	0	0	0						not applicable
6306P01s2	Waikiki Springs-new location	4	4	100.00	0	0	0	0	0	0	0						not applicable
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	50	94.34	0	0	0	0	0	0	0						not applicable
TOTAL (ALL SITES)		2495	2252	90.26	0	0	0	0	0	0	4.86E-05	0	6				

Trend Summary	0	#decreasing
	0	#increasing
	0	#stable
	51	#not applicable

Appendix E23. Zinc (Zn) Summary Table

Well ID	Well Name	Samples			Summary Statistics (mg/L)							Drinking Water Standard # Exceedances		Mann-Kendall Results				Sen's Slope (mg/yr)
		Count	#NDs	%ND	Min	Q1	Average	Median	Q3	Max	StDev	Secondary (5 mg/L)	State RL (0.2 mg/L)	S	z	p-value	20-yr Trend	
5323 E01	6th & Havana monitoring well (MW-2)	55	53	96.4	0	0	0.0005	0	0	0.0178	0.0027						not applicable	
5508M01	Barker Road Centennial Trail North, monitoring wel	76	1	1.3	0	0.0259	0.0307	0.0368	0.0496	0.0085			-962	-4.31	1.63E-05	decreasing	-0.0002	
5508M02	Barker Road Centennial Trail South, monitoring well	75	13	17.3	0	0.0054	0.0099	0.0104	0.0138	0.0280	0.0069		21	0.09	0.9269	stable		
5507H01	Barker Road north of river, monitoring wel	75	5	6.7	0	0.0165	0.0311	0.0303	0.0436	0.1360	0.0219		-1157	-5.29	1.23E-07	decreasing	-0.0005	
6631M04	CONSOLIDATED IRRIG DIST 19, Site 11B	50	40	80.0	0	0	0.0033	0	0	0.0320	0.0081					not applicable		
5518R01	CONSOLIDATED IRRIG DIST 19, Site 2A	52	49	94.2	0	0	0.0007	0	0	0.0143	0.0030					not applicable		
5308A02	CITY of SPOKANE-Nevada	52	48	92.3	0	0	0.0011	0	0	0.0219	0.0041					not applicable		
5322F01	CITY of SPOKANE-Ray	54	14	25.9	0	0.0008	0.0123	0.0132	0.0190	0.0394	0.0096			-483	-3.63	0.0003	decreasing	-0.0002
5308H01	Denver & Marietta, City monitoring well	58	56	96.6	0	0	0.0006	0	0	0.0294	0.0039					not applicable		
6436N01	East Valley High School monitoring well	29	27	93.1	0	0	0.0005	0	0	0.0104	0.0021					not applicable		
5324G01	E. SPOKANE WTR DIST, Site 1	54	37	68.5	0	0	0.0035	0	0.0077	0.0198	0.0056					not applicable		
5507A04	Euclid & Barker monitoring well at CID5	76	65	85.5	0	0	0.0007	0	0	0.0129	0.0025					not applicable		
5312C01	Felts Field City monitoring well	67	65	97.0	0	0	0.0010	0	0	0.0520	0.0065					not applicable		
6327N04	Fire Station Houston & Regal, No. Spokane WD	53	50	94.3	0	0	0.0049	0	0	0.2410	0.0331	1				not applicable		
6331J01	Franklin Park, City monitoring well	53	52	98.1	0	0	0.0003	0	0	0.0141	0.0019					not applicable		
5409C02	monitoring well Frederick & Bowdish	44	43	97.7	0	0	0.0025	0	0	0.1090	0.0164					not applicable		
6211J01s	SPOKANE FISH HATCHERY, GRIFFITH SPR	24	24	100.0	0	0	0	0	0	0	0					not applicable		
5311J05	Hale's Ale Nested Site, east	58	56	96.6	0	0	0.0006	0	0	0.0224	0.0032					not applicable		
5311J07	Hale's Ale Nested Site, mid	58	46	79.3	0	0	0.0035	0	0	0.0367	0.0079					not applicable		
6211K01	Spokane Fish Hatchery well	58	16	27.6	0	0	0.0269	0.0128	0.0189	0.2825	0.0541	1	-604	-4.09	4.30E-05	decreasing	-0.0004	
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	55	98.2	0	0	0.0004	0	0	0.0234	0.0031					not applicable		
6524R01	Idaho Road 1000 ft south of Trent, monitoring wel	55	52	94.5	0	0	0.0005	0	0	0.0150	0.0025					not applicable		
6525R01	Idaho Road 300 ft south of pipeline, monitoring wel	64	56	87.5	0	0	0.0014	0	0	0.0315	0.0052					not applicable		
6631M07	Idaho Road - East Farms monitoring well at CID11	64	53	82.8	0	0	0.0042	0	0	0.1820	0.0229					not applicable		
5213B01	I.E. COLD STORAGE	58	51	87.9	0	0	0.0017	0	0	0.0295	0.0053					not applicable		
5515C01	Mission Well, LIBERTY LAKE SEWER DIST	57	44	77.2	0	0	0.0030	0	0	0.0241	0.0061					not applicable		
5517D05	Mission & Barker monitoring well at CID 4	76	66	86.8	0	0	0.0012	0	0	0.0192	0.0038					not applicable		
5415 E03	MODERN ELECT WATER, Site 11	30	27	90.0	0	0	0.0009	0	0	0.0182	0.0035					not applicable		
5408N01	MODERN ELECT WATER, Site 6	58	49	84.5	0	0	0.0063	0	0	0.2490	0.0329	1				not applicable		
5304G01	NE Community Center, City monitoring well	53	42	79.2	0	0	0.0054	0	0	0.1360	0.0196					not applicable		
5417R02	New Balfour Park monitoring well	23	22	95.7	0	0	0.0005	0	0	0.0112	0.0023					not applicable		
6328H01	NORTH SPOKANE IRRIG. DIST. # 4, Site 4	54	48	88.9	0	0	0.0028	0	0	0.0679	0.0109					not applicable		
5315L01	Olive & Fiske monitoring well	58	55	94.8	0	0	0.0008	0	0	0.0225	0.0038					not applicable		
5312H01	ORCHARD AVE IRRIG DIST, Site 1	44	5	11.4	0	0.00945	0.0146	0.0123	0.0162	0.0755	0.0122		-317	-3.20	0.0014	decreasing	-0.0002	
5407C01	Orchard Ave Irrig Dist, Site 2 Buckeye & Dick	31	20	64.5	0	0	0.0047	0	0.0105	0.0213	0.0069					not applicable		
5405K01	PASADENA PARK #2	46	27	58.7	0	0	0.0095	0	0.0126	0.1400	0.0224					not applicable		
5404A01	Plantas Ferry Park monitoring well	27	20	74.1	0	0	0.0087	0	0.0028	0.0844	0.0203					not applicable		
5310Q01	monitoring well at SCC	42	41	97.6	0	0	0.0007	0	0	0.0298	0.0046					not applicable		
5427L01	Spokane Co Water Dist #3, Site 2-5, 26th & Vercler	47	41	87.2	0	0	0.0009	0	0	0.0121	0.0027					not applicable		
5411R03	Sullivan Park South, monitoring well	64	57	89.1	0	0	0.0007	0	0	0.0194	0.0030					not applicable		
5411R05s	Springs at Sullivan Park	13	12	92.3	0	0	0.0014	0	0	0.0182	0.0050					not applicable		
5411R06	Sullivan Road and Krispy Kreme, monitoring wel	3	3	100.0	0	0	0	0	0	0	0					not applicable		
5322A01	Third & Havana Nested Site, east	60	56	93.3	0	0	0.0005	0	0	0.0203	0.0027					not applicable		
5322A03	Third & Havana Nested Site, mid	58	57	98.3	0	0	0.0002	0	0	0.0120	0.0016					not applicable		
5212F01s	Three Springs	24	24	100.0	0	0	0	0	0	0	0					not applicable		
5505D01	Trent & Barker Road, monitoring well	65	60	92.3	0	0	0.0005	0	0	0.0143	0.0025					not applicable		
5307M01	Trinity School, Adams & Carlisle, City monitoring wel	58	56	96.6	0	0	0.0003	0	0	0.0101	0.0018					not applicable		
5426L03	VERA WATER & POWER, New Well 4	7	2	28.6	0	0.0039	0.0090	0.0097	0.0129	0.0196	0.0073					not applicable		
6306P01s	Waikiki Springs	22	22	100.0	0	0	0	0	0	0	0					not applicable		
6306P01s2	Waikiki Springs-new location	4	4	100.0	0	0	0	0	0	0	0					not applicable		
6320D01	WHITWORTH WATER DIST. #2, Well 2A	53	46	86.8	0	0	0.0030	0	0	0.1060	0.0148					not applicable		
TOTAL (ALL SITES)		2495	1933	77.5	0	0	0.0000	0	0	0.0000	0.01665	0	3					

Trend Summary	5	#decreasing
	0	#increasing
	1	#stable
	45	#not applicable

Appendix E24. Water Surface Elevation (ft) Summary Table

Well ID	Well Name (monitoring wells only)	Summary Statistics							Seasonality				Mann-Kendall Results					Sen's Slope	
		Count	Min	Q1	Average	Median	Q3	Max	StDev	Chi-Sq	p-value	S	Chi-Sq (het)	p-value	Test*	z-stat (trend)	p-value		trend
5323E01	6th & Havana monitoring well (MW-2)	79	1891.28	1893.42	1895.62	1894.29	1897.82	1905.90	3.48	58.44	1.26E-12	Y	6.22	0.102	SMK	1.67	0.095	stable	
5508M01	Barker Road Centennial Trail North, monitoring well	75	1950.90	1954.47	1957.22	1956.21	1960.15	1968.34	4.03	36.57	5.67E-08	Y	0.30	0.960	SMK	0.97	0.333	stable	
5508M02	Barker Road Centennial Trail South, monitoring well	75	1950.50	1954.07	1956.67	1955.63	1959.55	1967.95	3.97	34.50	1.56E-07	Y	0.24	0.972	SMK	0.60	0.55	stable	
5507H01	Barker Road north of river, monitoring well	75	1950.77	1954.42	1957.10	1956.17	1959.93	1968.26	4.05	36.21	6.77E-08	Y	0.26	0.967	SMK	0.94	0.349	stable	
5308H01	Denver & Marietta, City monitoring well	85	1859.53	1861.78	1863.79	1863.12	1865.21	1871.98	2.87	68.12	1.08E-14	Y	8.61	0.035	MK	1.56	0.118	stable	
6436N01	East Valley High School monitoring well	54	1940.27	1942.84	1945.66	1944.64	1948.65	1956.12	3.95	29.77	1.54E-06	Y	0.91	0.824	SMK	1.83	0.067	stable	
5507A04	Euclid & Barker monitoring well at CID5	93	1951.62	1955.51	1958.04	1957.08	1960.61	1969.14	3.75	33.59	2.42E-07	Y	2.97	0.397	SMK	2.94	0.013	increasing	0.121
5312C01	Felts Field City monitoring well	70	1885.08	1887.22	1889.68	1888.07	1891.96	1899.65	3.61	49.31	1.12E-10	Y	0.22	0.957	SMK	1.61	0.107	stable	
6327N04	Fire Station Houston & Regal, No. Spokane WD	78	1847.97	1849.14	1850.75	1850.25	1851.97	1856.53	1.91	47.60	2.59E-10	Y	3.22	0.358	SMK	2.20	0.028	increasing	0.04
6331J01	Franklin Park, City monitoring well	53	1850.37	1852.06	1853.54	1853.13	1854.97	1857.96	2.10	31.03	8.36E-07	Y	4.85	0.183	SMK	0.60	0.548	stable	
5311J05	Hale's Ale Nested Site, east	106	1878.40	1881.02	1883.61	1882.11	1886.18	1894.85	3.82	74.90	3.80E-16	Y	1.40	0.705	SMK	1.49	0.137	stable	
5311J07	Hale's Ale Nested Site, mid	57	1879.40	1880.86	1883.30	1882.00	1885.63	1893.88	3.52	41.98	4.05E-09	Y	0.69	0.876	SMK	0.00	1	stable	
6330J01	Holy Cross, Rhoades & Washington monitoring well	56	1841.61	1843.98	1844.91	1844.66	1846.20	1847.77	1.55	28.33	3.10E-06	Y	3.60	0.308	SMK	1.28	0.202	stable	
6631M07	Idaho Road - East Farms monitoring well at CID11	107	1973.32	1978.32	1981.23	1980.95	1983.60	1993.62	3.97	8.98	0.0295	Y	2.10	0.552	SMK	3.45	0.0006	increasing	0.248
6524R01	Idaho Road 1000 ft south of Trent, monitoring well	78	1974.50	1979.47	1982.66	1982.54	1985.40	1995.03	4.31	5.47	0.1406	N	1.01	0.799	MK	4.17	3.07E-05	increasing	0.351
6525R01	Idaho Road 300 ft south of pipeline, monitoring well	89	1972.60	1977.66	1980.67	1980.51	1983.32	1992.96	4.15	8.32	0.0390	Y	2.21	0.529	SMK	3.30	0.0009	increasing	0.242
5517D05	Mission & Barker monitoring well at CID 4	76	1955.03	1956.59	1957.68	1956.59	1960.52	1968.87	4.00	35.21	1.10E-07	Y	0.31	0.958	SMK	0.68	0.498	stable	
5310Q01	monitoring well at SCC	88	1873.10	1874.98	1877.46	1876.01	1879.57	1887.76	3.66	63.83	8.93E-14	Y	1.58	0.665	SMK	1.37	0.171	stable	
5409C02	monitoring well Frederick & Bowdish	45	1905.79	1907.20	1908.91	1907.98	1910.31	1915.30	2.53	22.04	6.39E-05	Y	0.81	0.847	SMK	0.87	0.386	stable	
5304G01	NE Community Center, City monitoring well	53	1858.10	1859.45	1861.24	1860.23	1862.67	1867.74	2.51	34.52	1.54E-07	Y	4.02	0.260	SMK	0.16	0.875	stable	
5417R02	New Balfour Park monitoring well	48	1911.98	1914.06	1916.42	1915.06	1918.54	1925.51	3.38	29.31	1.93E-06	Y	2.52	0.471	SMK	0.85	0.398	stable	
5315L01	Olive & Fiske monitoring well	86	1872.79	1874.97	1877.16	1875.83	1879.45	1886.79	3.39	67.80	1.26E-14	Y	3.85	0.278	SMK	2.35	0.019	increasing	0.04
5411R03	Sullivan Park South, monitoring well	103	1930.47	1933.23	1936.47	1934.80	1939.46	1947.84	4.48	70.83	2.83E-15	Y	5.63	0.131	SMK	0.62	0.538	stable	
5411R06	Sullivan Road and Krispy Kreme, monitoring well	12	1929.03	1931.76	1935.35	1933.80	1938.59	1943.80	5.13	4.39	0.2220	N	3.39	0.336	MK	-0.21	0.837	stable	
5322A01	Third & Havana Nested Site, east	85	1873.87	1876.04	1878.51	1876.90	1881.00	1888.86	3.60	65.31	4.32E-14	Y	6.37	0.095	SMK	1.72	0.086	stable	
5322A03	Third & Havana Nested Site, mid	58	1873.88	1875.30	1877.72	1876.48	1879.85	1887.28	3.25	42.72	2.82E-09	Y	2.32	0.509	SMK	0.19	0.85	stable	
5505D01	Trent & Barker Road, monitoring well	91	1952.77	1956.71	1959.06	1958.10	1961.23	1970.06	3.63	28.18	3.33E-06	Y	2.12	0.548	SMK	2.92	0.004	increasing	0.138
5307M01	Trinity School, Adams & Carlisle, City monitoring well	58	1745.52	1749.88	1753.68	1752.03	1756.74	1768.00	5.66	37.02	4.66E-08	Y	2.69	0.443	SMK	0.64	0.523	stable	

*Trend Test SMK = Seasonal Mann-Kendall
MK = Mann-Kendall

Trend Summary	0 #decreasing
	7 #increasing
	21 #stable
	0 #not applicable