CITY OF WEST KELOWNA

Monthly Water Quality Report

Powers Creek Water Service Area

August 2025

WATER SUPPLY AND TREATMENT

CITY OF
WEST
KELOWNA

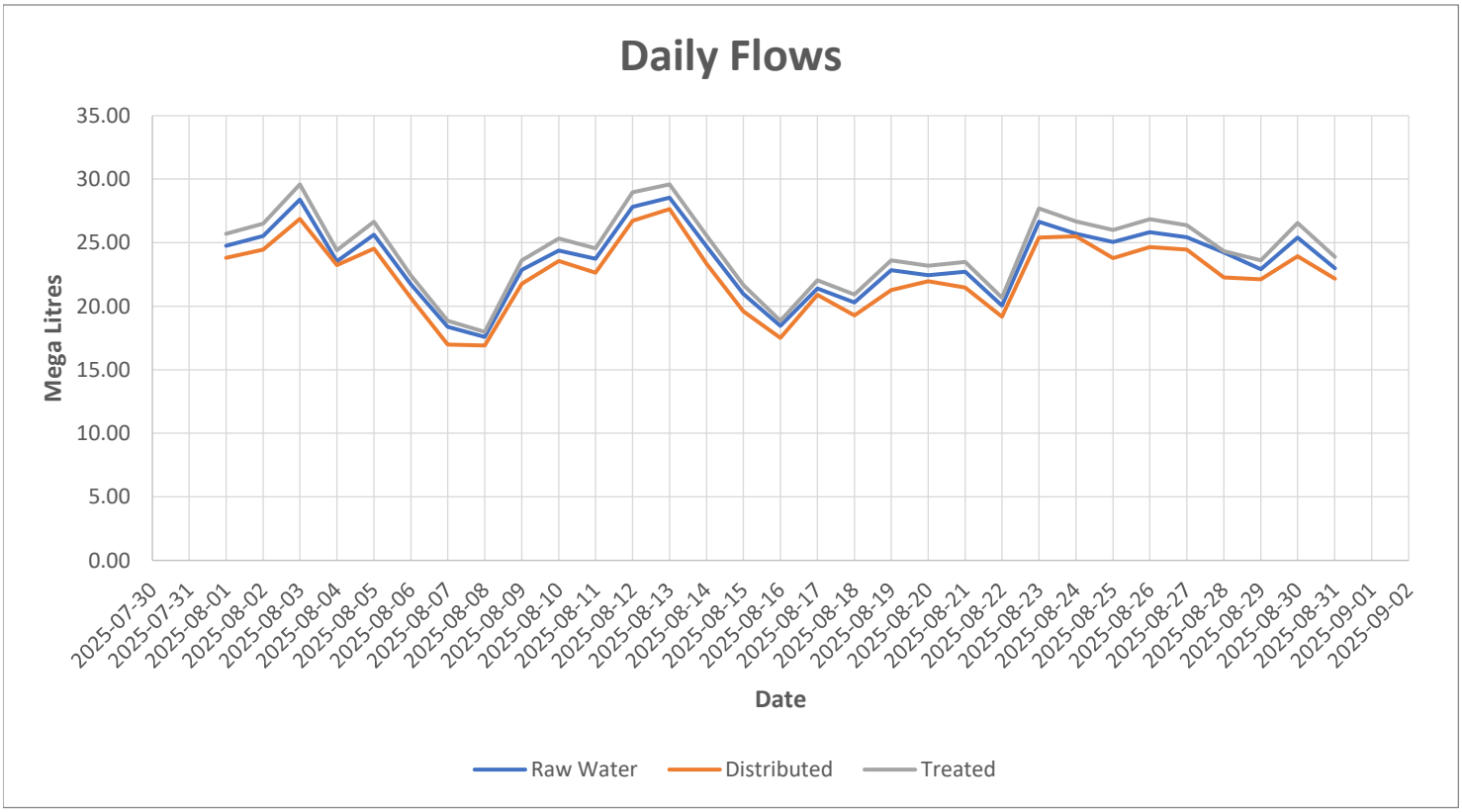
Powers Creek
Water Treatment Plant Monthly
Water Quality Summary

2025-09-05

August, 2025

Flow Demand:

	Total for Month
Raw Processed Water:	730.99 ML
Treated Water :	756.08 ML
Distributed Water :	698.57 ML
Backwash Water :	27.28 ML



Notes:

Raw Water Specifications:

	Raw Turbidity (NTU)			Raw pH		
Date	Min	Max	Average	Min	Max	Average
2025-08-01	0.43	3.19	0.90	7.52	7.86	7.69
2025-08-02	0.93	2.88	1.07	7.66	7.94	7.76
2025-08-03	0.85	2.80	1.01	7.55	7.84	7.69
2025-08-04	0.78	3.43	0.95	7.36	7.82	7.56
2025-08-05	0.52	2.71	0.70	7.47	7.99	7.78
2025-08-06	0.55	2.41	0.66	7.68	7.84	7.77
2025-08-07	0.39	1.88	0.53	7.62	7.93	7.79
2025-08-08	0.35	2.00	0.43	7.75	7.93	7.83
2025-08-09	0.18	1.07	0.30	7.76	7.92	7.84
2025-08-10	0.27	0.88	0.41	7.44	7.82	7.69
2025-08-11	0.39	3.36	0.64	7.34	7.91	7.62
2025-08-12	0.58	2.35	0.74	7.50	7.91	7.70
2025-08-13	0.57	1.67	0.71	7.44	7.89	7.69
2025-08-14	0.56	3.36	0.71	7.57	7.93	7.76
2025-08-15	0.61	2.56	0.72	7.64	7.80	7.70
2025-08-16	0.59	2.34	0.78	7.69	7.87	7.75
2025-08-17	0.46	2.54	0.62	7.48	7.73	7.61
2025-08-18	0.37	2.08	0.45	7.34	7.98	7.65
2025-08-19	0.31	1.03	0.41	7.70	7.92	7.80
2025-08-20	0.37	2.09	0.46	7.55	7.92	7.74
2025-08-21	0.40	1.17	0.47	7.45	7.79	7.65
2025-08-22	0.40	2.18	0.50	7.43	7.87	7.69
2025-08-23	0.47	1.33	0.63	7.69	7.94	7.79
2025-08-24	0.55	1.57	0.71	7.71	7.93	7.80
2025-08-25	0.34	2.06	0.46	7.68	7.90	7.77
2025-08-26	0.37	1.30	0.47	7.58	7.87	7.73
2025-08-27	0.41	1.23	0.54	7.56	7.89	7.74
2025-08-28	0.40	1.07	0.48	7.52	7.88	7.72
2025-08-29	0.46	2.67	0.56	7.55	7.86	7.71
2025-08-30	0.61	3.13	0.99	7.62	7.92	7.74
2025-08-31	0.58	2.89	0.86	7.60	7.80	7.65

Notes:

Raw Water Specifications (Continued):

	Raw Temp (˚C)			Raw DOC (mg/L)		
Date	Min	Max	Average	Min	Max	Average
2025-08-01	17.43	22.96	19.90	10.98	11.85	11.39
2025-08-02	17.43	19.60	18.69	10.60	12.21	11.88
2025-08-03	16.84	23.40	20.03	9.65	16.07	11.55
2025-08-04	17.80	23.30	19.60	6.09	19.81	9.71
2025-08-05	15.60	20.68	17.08	0.58	17.46	11.04
2025-08-06	16.19	17.80	16.80	11.25	11.69	11.50
2025-08-07	14.47	16.64	15.52	9.88	11.30	11.16
2025-08-08	14.42	17.33	15.50	10.60	10.89	10.79
2025-08-09	16.00	18.15	17.01	10.48	10.78	10.65
2025-08-10	17.75	23.31	19.90	10.43	10.82	10.66
2025-08-11	17.18	23.36	19.02	10.33	11.71	10.48
2025-08-12	16.35	22.20	18.66	10.32	10.60	10.47
2025-08-13	16.51	22.51	18.41	10.45	11.76	10.73
2025-08-14	16.03	18.18	17.14	9.94	30.66	10.76
2025-08-15	16.22	18.25	16.91	10.59	11.06	10.83
2025-08-16	16.55	19.24	17.40	10.83	11.32	11.11
2025-08-17	18.48	22.79	20.60	10.65	11.08	10.77
2025-08-18	14.81	21.57	16.82	10.27	10.65	10.54
2025-08-19	15.31	17.30	16.29	10.25	10.54	10.38
2025-08-20	14.45	21.69	16.84	10.17	10.40	10.29
2025-08-21	13.89	22.06	16.92	10.15	10.39	10.29
2025-08-22	12.95	15.17	14.26	10.09	10.48	10.34
2025-08-23	13.26	15.82	14.52	10.16	10.54	10.35
2025-08-24	14.16	16.54	15.31	10.19	10.78	10.52
2025-08-25	14.80	17.02	15.93	10.07	10.29	10.18
2025-08-26	15.18	20.84	16.91	10.00	10.42	10.22
2025-08-27	15.37	18.28	16.73	9.93	10.54	10.28
2025-08-28	15.91	19.29	17.14	9.34	9.82	9.64
2025-08-29	16.52	19.03	17.68	9.08	9.40	9.27
2025-08-30	16.39	18.25	17.44	9.02	9.65	9.38
2025-08-31	15.51	21.57	18.30	8.95	9.28	9.14

Notes:

Raw Water Specifications (Continued):

	Raw Cond (µS/cm)			Streaming Current		
Date	Min	Max	Average	Min	Max	Average
2025-08-01	80.86	99.66	97.68	-37.43	13.74	-15.81
2025-08-02	90.94	96.55	95.85	-7.93	12.52	3.45
2025-08-03	94.98	96.05	95.73	-13.90	15.93	-0.24
2025-08-04	94.87	102.18	97.11	-7.82	19.63	3.53
2025-08-05	93.30	96.36	95.34	-17.14	22.85	7.56
2025-08-06	95.12	96.47	95.83	-9.94	23.61	12.79
2025-08-07	-0.13	96.58	95.83	3.34	53.29	32.72
2025-08-08	88.35	97.32	96.66	9.57	45.35	33.02
2025-08-09	88.57	97.99	96.64	5.35	190.81	31.77
2025-08-10	95.48	97.39	96.55	35.46	118.57	83.27
2025-08-11	95.67	97.45	96.51	???	112.28	25.45
2025-08-12	79.89	97.81	96.35	-59.79	72.15	-2.61
2025-08-13	87.45	96.32	95.32	-40.77	29.47	-2.48
2025-08-14	-0.36	95.67	93.87	-38.69	23.66	-6.56
2025-08-15	79.56	95.66	92.99	-66.61	31.86	-17.75
2025-08-16	80.35	94.60	89.55	-87.14	12.59	-40.51
2025-08-17	75.05	96.79	93.63	-75.24	11.62	-29.04
2025-08-18	83.55	95.44	94.12	-66.54	5.51	-29.43
2025-08-19	87.58	95.12	93.53	-65.78	-3.76	-31.57
2025-08-20	83.63	95.00	92.75	-105.28	0.08	-32.95
2025-08-21	90.26	93.93	93.53	???	1.34	-36.46
2025-08-22	92.87	93.64	93.26	-74.45	7.49	-32.98
2025-08-23	92.09	93.20	92.68	-79.22	25.47	-25.14
2025-08-24	91.38	93.13	92.02	-72.43	6.18	-30.83
2025-08-25	66.84	93.05	92.61	-82.25	9.64	-46.85
2025-08-26	91.16	93.26	92.15	???	30.57	-37.19
2025-08-27	78.72	93.43	91.94	-38.88	41.32	-7.89
2025-08-28	84.15	93.58	92.07	-43.58	7.49	-12.33
2025-08-29	83.13	93.79	92.00	-42.79	20.39	-17.98
2025-08-30	90.58	92.29	91.42	-53.74	8.44	-22.74
2025-08-31	89.08	90.72	90.00	-49.75	22.85	-14.96

Notes:

Raw Water Specifications (Continued):

	Coagulated pH			Coagulated Temp (˚C)		
Date	Min	Max	Average	Min	Max	Average
2025-08-01	7.02	7.21	7.12	17.40	18.98	18.40
2025-08-02	7.08	7.20	7.13	17.46	19.65	18.53
2025-08-03	7.11	7.23	7.17	18.10	19.62	18.78
2025-08-04	7.01	7.18	7.09	18.29	19.76	19.18
2025-08-05	7.09	7.20	7.14	15.81	19.54	17.49
2025-08-06	7.09	7.21	7.13	16.41	17.06	16.80
2025-08-07	7.02	7.17	7.07	14.78	16.52	15.57
2025-08-08	7.08	7.22	7.12	14.72	16.83	15.58
2025-08-09	6.99	7.23	7.13	16.00	17.99	16.89
2025-08-10	6.89	6.98	6.94	17.44	19.41	18.27
2025-08-11	6.81	6.94	6.88	17.05	19.21	18.44
2025-08-12	6.89	7.01	6.93	16.38	18.84	17.77
2025-08-13	6.83	6.97	6.91	16.69	18.27	17.71
2025-08-14	6.84	6.96	6.92	16.41	17.48	17.04
2025-08-15	6.87	7.04	6.96	16.12	16.87	16.43
2025-08-16	6.96	7.12	7.03	16.36	17.77	16.87
2025-08-17	6.99	7.06	7.03	15.17	16.92	16.17
2025-08-18	6.97	7.06	7.02	14.94	16.60	15.98
2025-08-19	7.01	7.06	7.04	15.61	16.68	16.20
2025-08-20	7.01	7.08	7.04	14.77	16.41	15.83
2025-08-21	7.02	7.07	7.04	14.35	19.36	15.49
2025-08-22	7.00	7.08	7.04	13.44	15.44	14.42
2025-08-23	7.01	7.08	7.06	14.39	16.42	15.28
2025-08-24	7.02	7.07	7.05	15.30	17.27	16.25
2025-08-25	6.90	7.06	7.01	14.65	17.03	16.03
2025-08-26	7.02	7.11	7.07	15.27	19.30	16.19
2025-08-27	7.05	7.12	7.09	15.55	16.96	16.34
2025-08-28	7.09	7.12	7.11	16.22	17.45	16.77
2025-08-29	6.98	7.10	7.06	16.27	18.09	17.21
2025-08-30	7.01	7.10	7.07	16.15	17.72	17.07
2025-08-31	7.03	7.10	7.06	15.22	16.97	15.95

Notes:

Train 1 Filter Turbidity (NTU):

	Filter 1			Filter 2			Filter 3		
Date	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-08-01	0.01	0.05	0.02	0.02	0.03	0.02	0.01	0.04	0.01
2025-08-02	0.01	0.03	0.02	0.02	0.07	0.03	0.01	0.01	0.01
2025-08-03	0.01	0.04	0.02	0.02	0.05	0.03	0.01	0.04	0.01
2025-08-04	0.02	0.02	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-05	0.02	0.05	0.02	0.02	0.03	0.03	0.01	0.04	0.01
2025-08-06	0.02	0.03	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-07	0.02	0.04	0.02	0.02	0.03	0.03	0.01	0.02	0.01
2025-08-08	0.01	0.03	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-09	0.02	0.04	0.02	0.02	0.02	0.02	0.01	0.02	0.01
2025-08-10	0.02	0.03	0.02	0.02	0.05	0.03	0.01	0.01	0.01
2025-08-11	0.02	0.04	0.02	0.02	0.03	0.02	0.01	0.02	0.01
2025-08-12	0.02	0.02	0.02	0.02	0.05	0.03	0.01	0.01	0.01
2025-08-13	0.02	0.05	0.02	0.02	0.03	0.03	0.01	0.03	0.01
2025-08-14	0.02	0.06	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-15	0.02	0.04	0.03	0.02	0.04	0.03	0.01	0.02	0.01
2025-08-16	0.02	0.05	0.03	0.02	0.07	0.03	0.01	0.01	0.01
2025-08-17	0.02	0.05	0.03	0.02	0.04	0.02	0.01	0.03	0.01
2025-08-18	0.02	0.04	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-19	0.02	0.06	0.03	0.02	0.03	0.02	0.01	0.03	0.01
2025-08-20	0.02	0.03	0.02	0.02	0.07	0.03	0.01	0.01	0.01
2025-08-21	0.02	0.05	0.03	0.02	0.03	0.02	0.01	0.03	0.01
2025-08-22	0.02	0.04	0.02	0.02	0.06	0.03	0.01	0.01	0.01
2025-08-23	0.02	0.06	0.03	0.02	0.03	0.02	0.01	0.03	0.01
2025-08-24	0.02	0.04	0.02	0.02	0.08	0.03	0.01	0.01	0.01
2025-08-25	0.02	0.05	0.02	0.02	0.04	0.03	0.01	0.04	0.01
2025-08-26	0.02	0.03	0.02	0.02	0.07	0.03	0.01	0.01	0.01
2025-08-27	0.02	0.07	0.03	0.03	0.04	0.03	0.01	0.05	0.02
2025-08-28	0.02	0.17	0.05	0.02	0.06	0.03	0.01	0.05	0.02
2025-08-29	0.02	0.04	0.02	0.02	0.05	0.03	0.01	0.01	0.01
2025-08-30	0.02	0.04	0.02	0.03	0.03	0.03	0.01	0.04	0.02
2025-08-31	0.02	0.05	0.03	0.03	0.08	0.03	0.01	0.02	0.01

Notes:

Train 2 Filter Turbidity (NTU)

	Filter 4			Filter 5			Filter 6		
Date	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-08-01	0.03	0.08	0.04	0.02	0.04	0.03	0.02	0.03	0.02
2025-08-02	0.03	0.04	0.03	0.03	0.06	0.03	0.02	0.04	0.02
2025-08-03	0.03	0.07	0.03	0.03	0.04	0.03	0.02	0.02	0.02
2025-08-04	0.03	0.03	0.03	0.03	0.08	0.03	0.02	0.05	0.02
2025-08-05	0.03	0.07	0.03	0.02	0.04	0.03	0.02	0.03	0.02
2025-08-06	0.03	0.03	0.03	0.02	0.07	0.03	0.02	0.04	0.02
2025-08-07	0.03	0.06	0.03	0.02	0.03	0.03	0.02	0.02	0.02
2025-08-08	0.03	0.03	0.03	0.03	0.05	0.03	0.02	0.03	0.02
2025-08-09	0.02	0.06	0.03	0.03	0.03	0.03	0.02	0.02	0.02
2025-08-10	0.02	0.03	0.02	0.02	0.07	0.03	0.02	0.04	0.02
2025-08-11	0.02	0.03	0.03	0.02	0.04	0.03	0.02	0.02	0.02
2025-08-12	0.02	0.03	0.03	0.02	0.05	0.03	0.01	0.02	0.02
2025-08-13	0.02	0.05	0.03	0.03	0.04	0.03	0.01	0.01	0.01
2025-08-14	0.02	0.03	0.02	0.02	0.05	0.03	0.01	0.03	0.02
2025-08-15	0.02	0.05	0.03	0.02	0.02	0.02	0.02	0.02	0.02
2025-08-16	0.02	0.03	0.02	0.02	0.05	0.03	0.02	0.03	0.02
2025-08-17	0.02	0.06	0.03	0.03	0.04	0.03	0.02	0.02	0.02
2025-08-18	0.02	0.03	0.02	0.02	0.07	0.03	0.02	0.03	0.02
2025-08-19	0.02	0.04	0.02	0.02	0.05	0.02	0.02	0.03	0.02
2025-08-20	0.02	0.03	0.02	0.02	0.06	0.03	0.02	0.04	0.02
2025-08-21	0.02	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2025-08-22	0.01	0.02	0.02	0.03	0.08	0.04	0.02	0.04	0.02
2025-08-23	0.02	0.05	0.02	0.03	0.03	0.03	0.02	0.02	0.02
2025-08-24	0.02	0.04	0.02	0.03	0.07	0.03	0.02	0.04	0.02
2025-08-25	0.02	0.04	0.02	0.02	0.03	0.02	0.02	0.02	0.02
2025-08-26	0.02	0.03	0.02	0.03	0.07	0.03	0.02	0.04	0.02
2025-08-27	0.01	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2025-08-28	0.01	0.03	0.02	0.02	0.05	0.03	0.01	0.03	0.02
2025-08-29	0.02	0.02	0.02	0.03	0.05	0.03	0.02	0.02	0.02
2025-08-30	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.04	0.02
2025-08-31	0.02	0.02	0.02	0.03	0.08	0.04	0.02	0.03	0.02

Notes:

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2025-08-01	346.03	20.50	99.93
2025-08-02	269.43	20.44	99.93
2025-08-03	383.53	21.70	99.93
2025-08-04	396.64	22.86	99.93
2025-08-05	198.29	25.26	99.93
2025-08-06	268.71	20.76	99.93
2025-08-07	189.62	28.00	99.93
2025-08-08	184.37	30.96	99.93
2025-08-09	241.45	24.80	99.93
2025-08-10	298.84	21.06	99.93
2025-08-11	329.67	20.96	99.93
2025-08-12	286.57	21.80	99.85
2025-08-13	396.95	21.00	92.23
2025-08-14	329.68	20.74	99.93
2025-08-15	296.14	21.40	99.93
2025-08-16	185.99	30.02	99.93
2025-08-17	182.27	30.18	99.93
2025-08-18	318.60	20.20	99.93
2025-08-19	192.97	29.02	99.93
2025-08-20	182.79	30.46	99.93
2025-08-21	262.00	22.60	99.93
2025-08-22	255.91	23.24	99.93
2025-08-23	188.97	29.12	99.93
2025-08-24	337.64	20.64	99.93
2025-08-25	338.91	20.20	99.93
2025-08-26	387.25	20.50	99.93
2025-08-27	384.48	20.80	99.93
2025-08-28	290.51	20.70	99.93
2025-08-29	313.83	99.93	99.93
2025-08-30	340.50	99.93	99.93
2025-08-31	190.95	99.93	99.93

Notes:

UV Transmittance %:

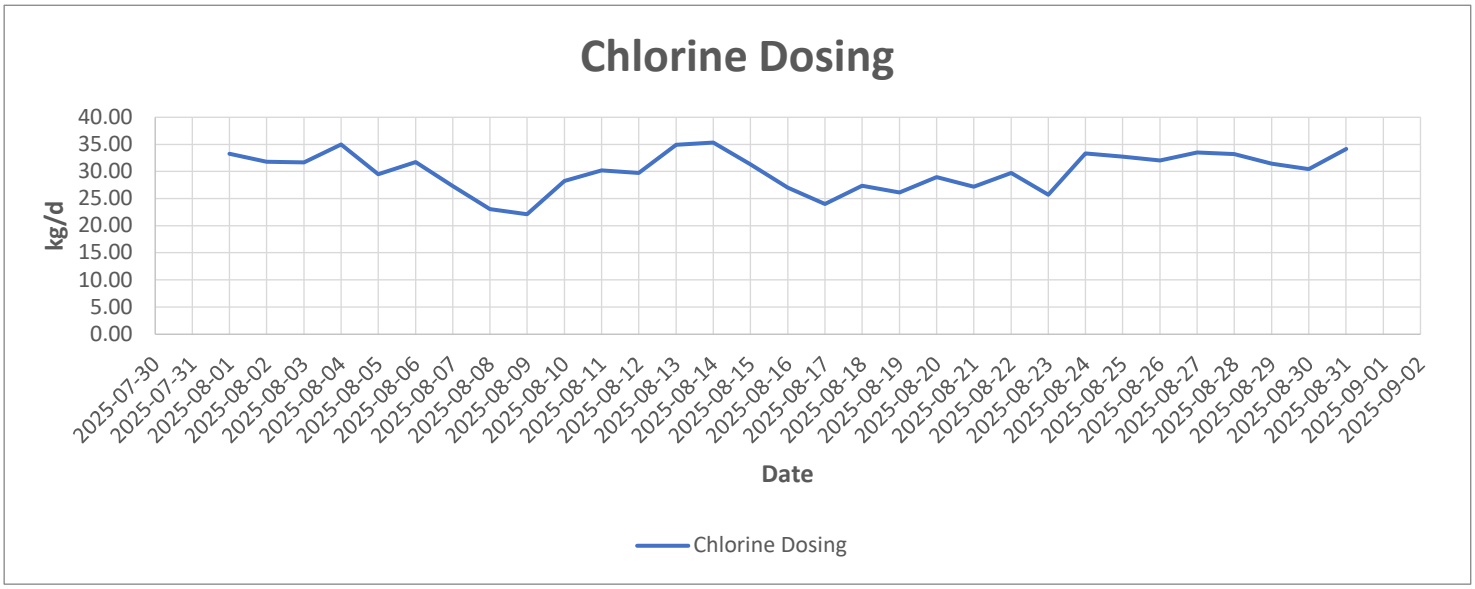
Date	Min	Max	Average
2025-08-01	89.30	90.10	89.81
2025-08-02	89.50	90.30	89.89
2025-08-03	89.60	90.60	89.97
2025-08-04	89.10	90.30	89.66
2025-08-05	89.30	90.60	90.08
2025-08-06	89.80	91.00	90.18
2025-08-07	90.10	91.60	90.82
2025-08-08	90.80	91.90	91.24
2025-08-09	90.90	91.80	91.38
2025-08-10	90.90	91.70	91.31
2025-08-11	91.00	92.10	91.40
2025-08-12	91.20	92.00	91.56
2025-08-13	90.80	92.10	91.31
2025-08-14	90.90	91.40	91.11
2025-08-15	90.70	91.40	91.06
2025-08-16	90.40	91.20	90.77
2025-08-17	90.50	91.50	90.87
2025-08-18	90.60	91.20	90.82
2025-08-19	90.60	91.70	90.87
2025-08-20	90.60	91.60	90.96
2025-08-21	90.80	91.60	91.12
2025-08-22	90.60	91.70	90.99
2025-08-23	90.50	91.30	90.85
2025-08-24	90.40	91.20	90.75
2025-08-25	90.50	91.20	90.91
2025-08-26	90.10	91.50	90.73
2025-08-27	90.10	90.90	90.56
2025-08-28	90.50	91.50	91.14
2025-08-29	90.80	91.70	91.32
2025-08-30	90.50	91.50	91.02
2025-08-31	90.80	91.60	91.21

Notes:

Chemical Demand:

Chlorine Used:

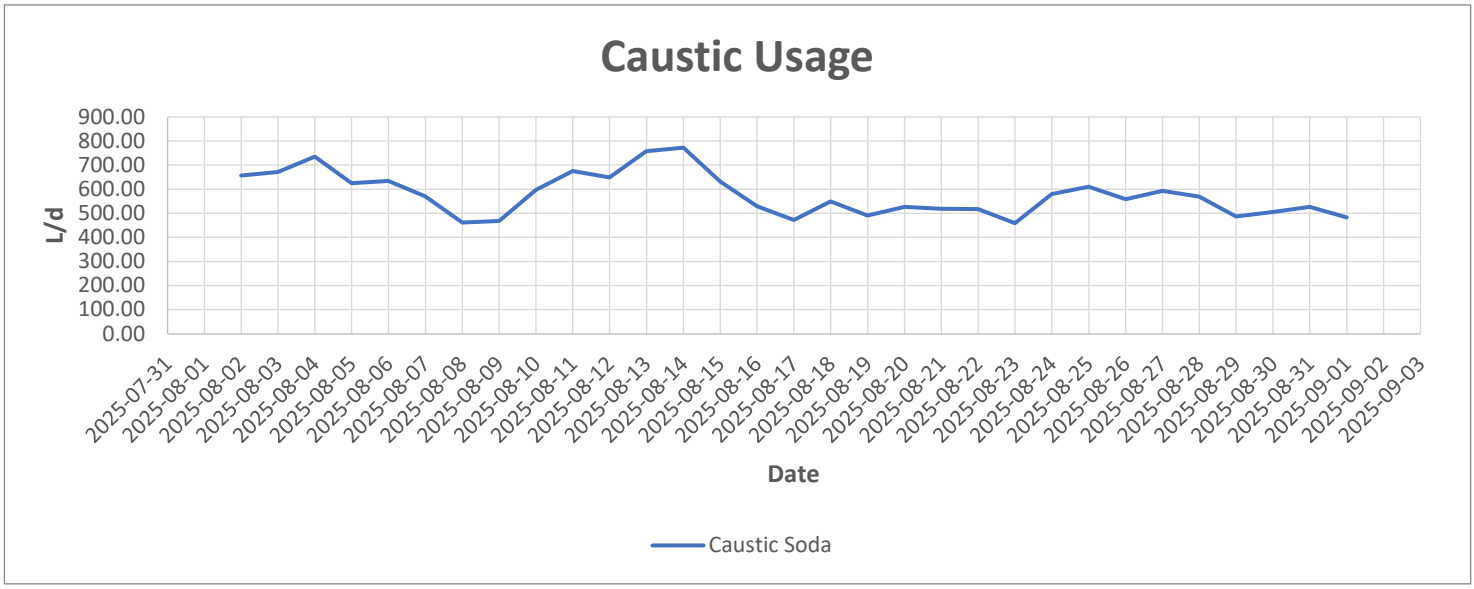
Total for Month
931.72 Kgs



Notes:

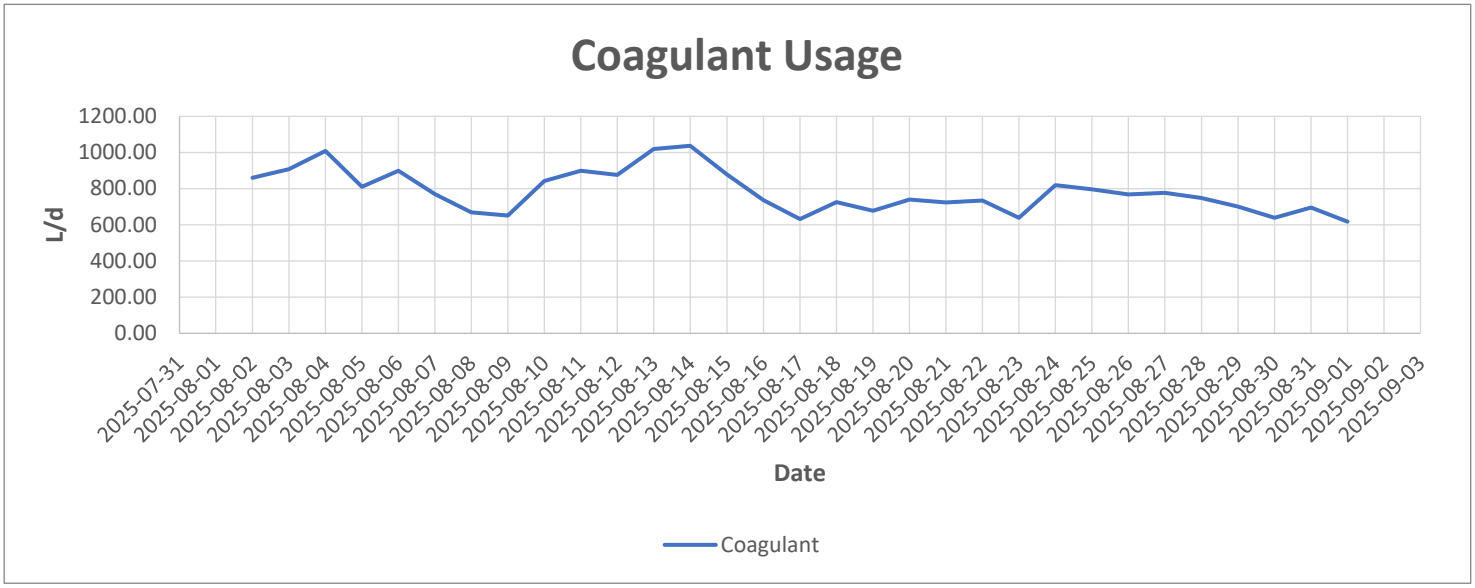
Caustic Soda Used:

Total for Month
17875.86 Litres



Notes:

	Total for Month
Coagulant Used:	24284.30 Litres

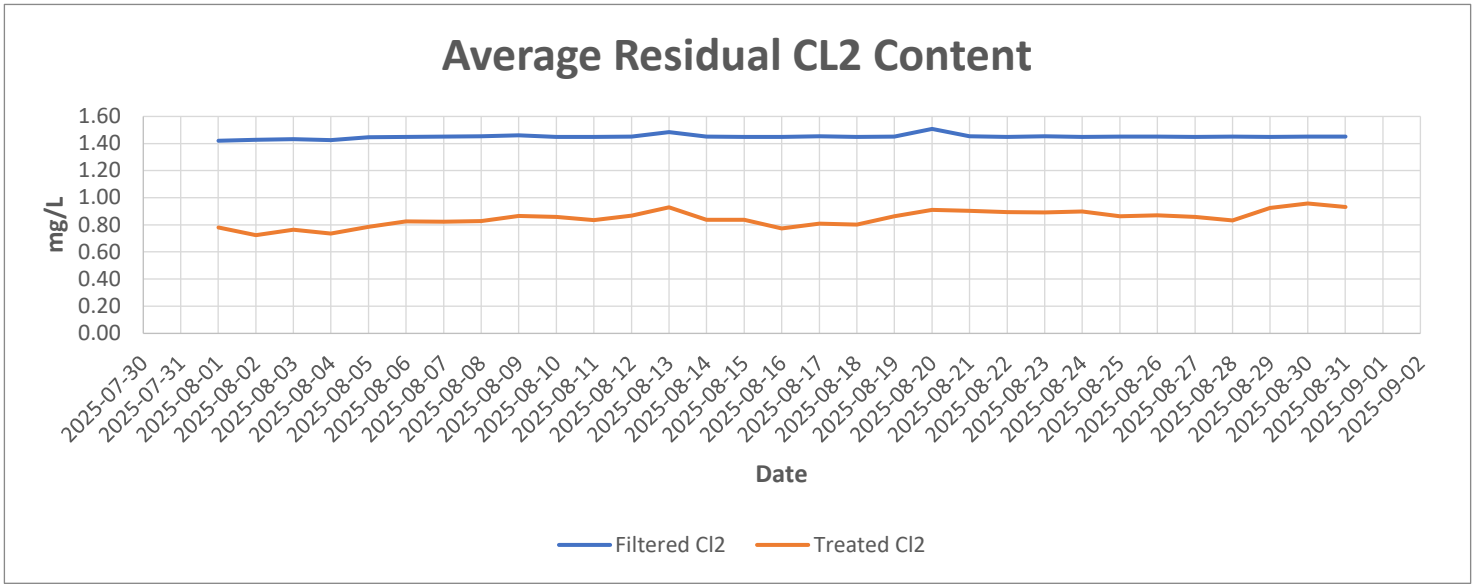


Notes:

	Total for Month
DAF & Residual DAF Neat Polymer	467.24 L
	Total for Month
Centrifuge Neat Polymer	802.45 L

Chlorine Dose

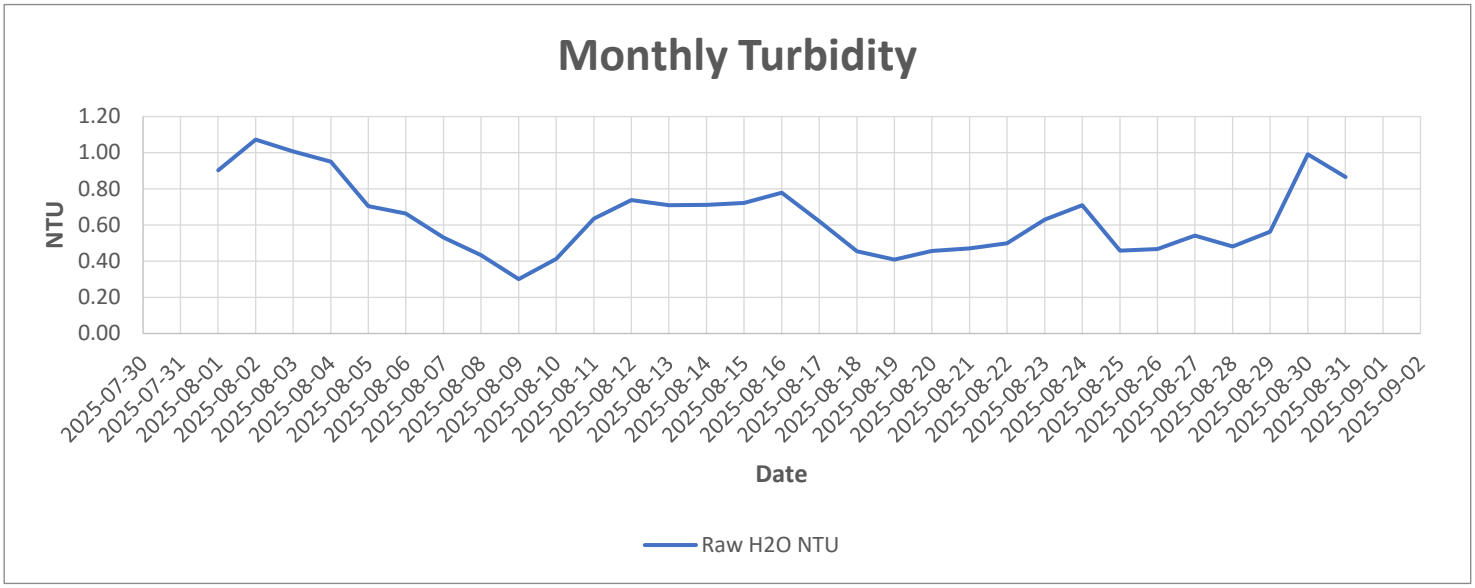
Filtered Water Residual Cl2 Average (mg/L):	1.45 mg/L
Treated Water (Distributed) Cl2 Average (mg/L):	0.85 mg/L



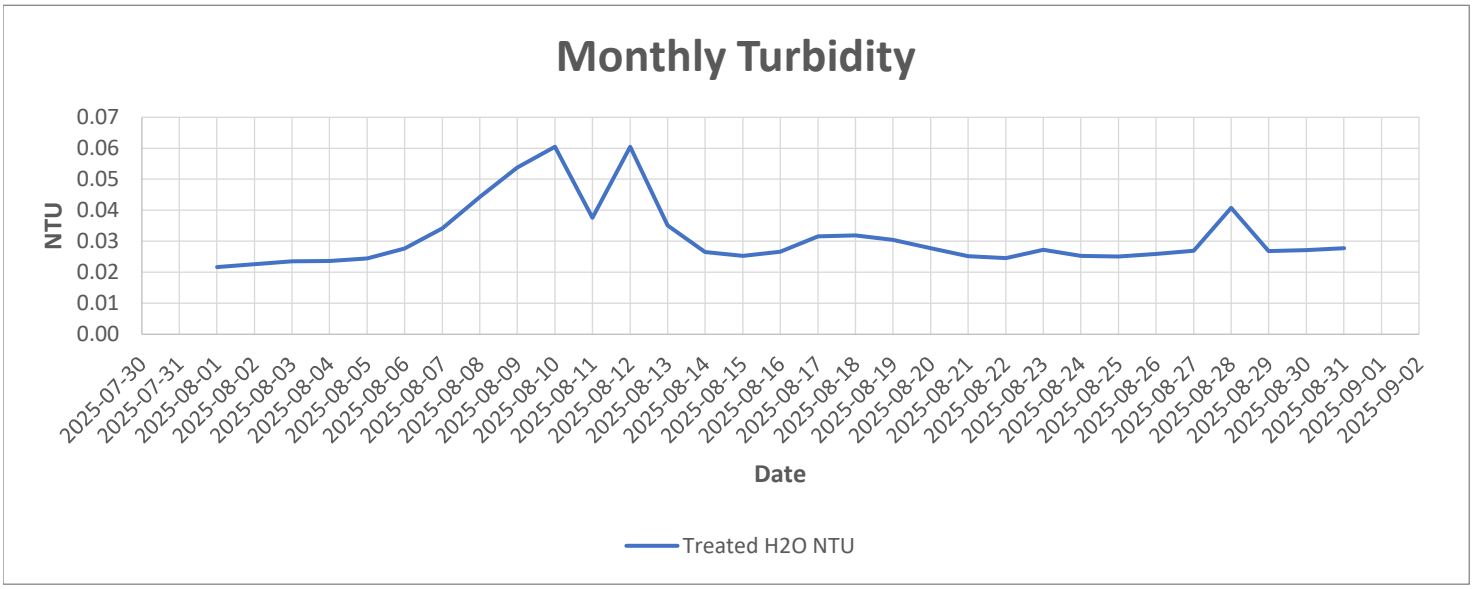
Water Quality Analytics:

Turbidity

Raw Water Monthly Average: 0.64 NTU



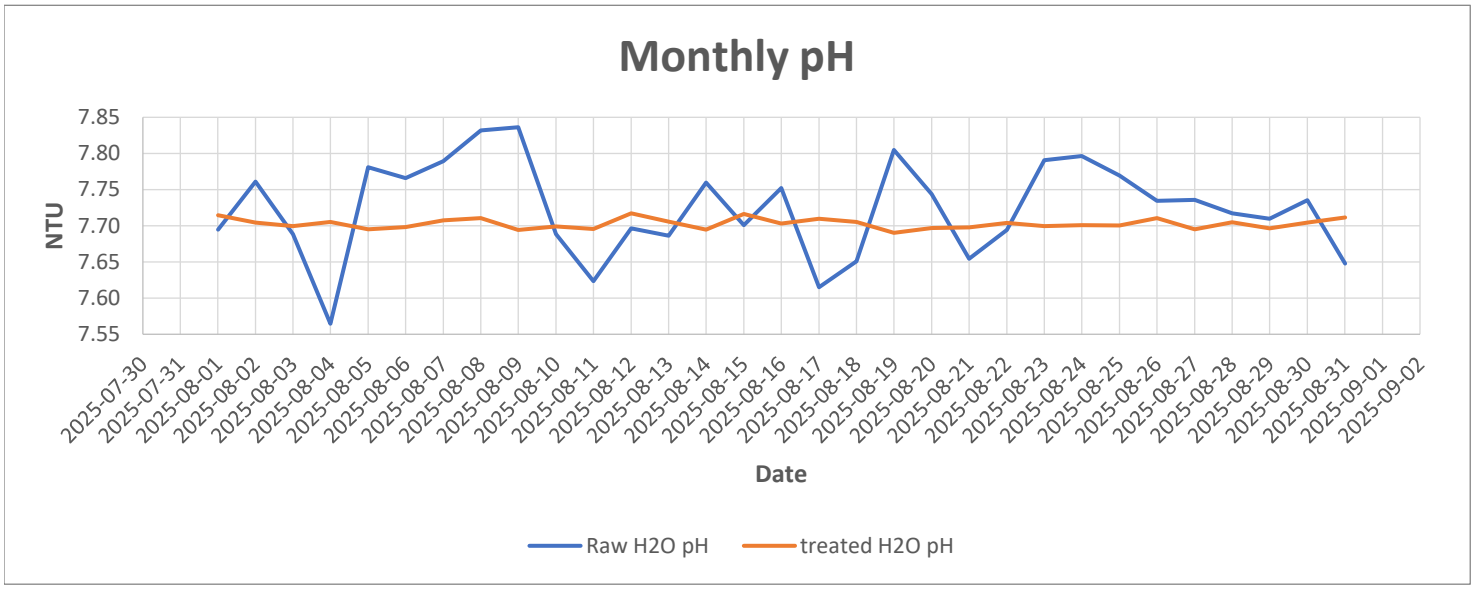
Treated Water Monthly Average: 0.03 NTU



Notes:

pH

Raw Water Monthly Average:	7.72 pH
Treated Water Monthly Average:	7.70 pH



Notes:

Powers Creek WTP Operational Highlights:

Ongoing Hypochlorite Project by contractor, all month
Aug 1st - flush, rinse, and zero streaming current
Aug 5th - clean DAF poly make down system
Aug 7th - contractor (Care Systems) in to do HVAC maintenance
Aug 7th - Chemical (Caustic) delivery
Aug 7th - contractor (Cleartech) in to do annual calibrations of lab equipment
Aug 8th - changed treated water tubing
Aug 12th - Chemical (Sodium Hypochlorite) delivery for new Hypo project - not yet in service
Aug 13th - 1000hr service on DAFs #1, #3, #4
Aug 13th - contractor (Care systems) annual check on HVAC software pkg
Aug 13th - routine maintenance on pH & NTU analyzers
Aug 14th - replaced skimmer motor on DAF #3
Aug 14th - changed out raw water tubing
Aug 14th - 1000hr service on DAFs #2, #5, #6
Aug 18th - Chemical (AluPAC 4000B) bulk load delivery
Aug 18th - installed new particle counter
Aug 19th & 20th - Alpha Laval rep in to troubleshoot issue with centrifuge
Aug 20th - Hypo project 28 day trial scheduled, start up failed. 28 day trial cancelled
Aug 22nd - clean & change treated water NTU analyzer vial
Aug 22nd - Chlorine tonner swap out
Aug 25th - charged up chlorine tonner
Aug 25th - swapped out centrifuge poly tote
Aug 26th - clean & rinse centrifuge poly system
Aug 26th - flush & zero streaming current
Aug 27th - clean & rinse DAF poly system
Aug 27th - clean & calibrate DAF interface NTU analyzer
Aug 28th - replaced solenoid on DAF poly system

Power Creek Watershed Operational Highlights:

Ongoing dam maintenance though out the month of August

Lambly
Weekly Dam inspections
Aug 12th Changed Fuel Cell
Aug 25th Cleaned spillway and removed flash boards
Aug 26th2721.1ML 3300gpm

Jackpine
Weekly Dam inspections
Aug 5th 1184Ml
Aug 26th1164.4ML

Paynter
Weekly Dam inspections
Aug 5th 297.3ML 1700usgpm
Aug 26th 66.6ML 1000usgpm

Horseshoe
Weekly Dam inspections
Aug 5th 937.4ML 2000usgpm
Aug 12th Brush cut dams
Aug 26th 862.2ML 4000usgpm

Dobbin
Weekly Dam inspection
Aug 12th 350.3ML 3500usgpm Brush cut roadway into dam
Aug 26th 354.0ML 3700usgpm

Tadpole
Weekly Dam inspections
Aug 5th 3235.4ML 3500usgpm
Aug 12th 4000usgpm
Aug 14th 4500usgpm
Aug 20th Brush cut dam and moved boom logs as per ACORA
Aug 28th 2818.5ML Completed Piezometers

Definitions:

UV Availability (%) - Calculated daily percentage of the time the UV is in operation divided by the time where there is flow going through the UV reactor. (Note: SCADA performing this calculation has a small error based on the time the values are pulled which does not allow the UV Availability to show 100% when the Reactor was operating for a full day without interruption (i.e. 99.93% represents a full day running without issue).

WATER DISTRIBUTION

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Power's Creek Water Service Area – Distribution System Monitoring

August 2025

Water Quality Data Review

- Based on the Power's Creek Water Service Area distribution system grab sample data, it appears the results for turbidity, free-chlorine and bacteriological have met the Water Quality Objectives during the month of August.
- August Bacteriological Sampling Summary:
    - 16 samples to CARO for analysis
    - 8 samples analyzed in-house at RVWTP
    - All bacteriological sample results indicated <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- August 1, 2025 – Smith Creek Reservoir (SCR) was dosed with sodium hypo in an effort to increase the FCR by 0.40mg/L.
- August 3, 2025 – Smith Creek Pump Station (SCPS) online FCR analyzer calibration adjustment of 0.19mg/L increase.
- August 3, 2025 – SCR was dosed with sodium hypo in an effort to increase the FCR by 0.40mg/L.
    - Additionally, water was moved between SCR and Dixie Reservoir to promote mixing of the reservoir and bring in new water from Dixie.
- August 8, 2025 – SCR was dosed with sodium hypo in an effort to increase the FCR by 0.40mg/L.
- August 14, 2025 – SCPS online FCR analyzer calibration adjustment of 0.27mg/L decrease.
- August 18, 2025 – SCR was dosed with sodium hypo in an effort to increase the FCR by 0.40mg/L.
- August 19, 2025 – The quarterly and annual analysis was completed.
    - Bulk Water Station sample location has been designated for inclusion in the quarterly analysis moving forward.
- August 29, 2025 – SCR was dosed with sodium hypo in an effort to increase the FCR by 0.40mg/L.

Operational System Improvements/Events

- August 12, 2025 – Hydrant #1154 at Yorkton Rd near Larsen Ave was removed from service and bagged. Recorded, communicated to the Fire Department and maintenance being scheduled.
- August 12, 2025 – 3505/3511 Webber Rd leak on service line effecting two homes, water service was disrupted overnight Aug 11-12th for 3511 Webber and for approximately 4 hours on Aug 12th both homes experienced water service disruption. Both homes were contacted directly regarding the disruption.
- August 13, 2025 – SCR levels were drawn down to 40% and in turn lowered Dixie Reservoir while re-filling SCR to increase the volume of fresh water to the reservoirs. This operational change helped maintain a residual of approximate 0.50mg/L for the week.
    - Additionally, changes have been made to pump fresh water up to the Dixie reservoir and back feed to SCR to promote fresher water and a higher FCR.
- August 22, 2025 – Old Okanagan Hwy capital project tie-in via BC general Contracting, witnessed by City staff and charge up completed by staff.
- August 22, 2025 – 3442 Logan Rd water service repair completed by contractor Approved service for the City utility. Three homes 3442/3448/3452 Logan Rd were without water from approximately 4 hours 8am-12pm, each home was contacted directly.

WQ Field and SCADA Data

Sampling Location Table:

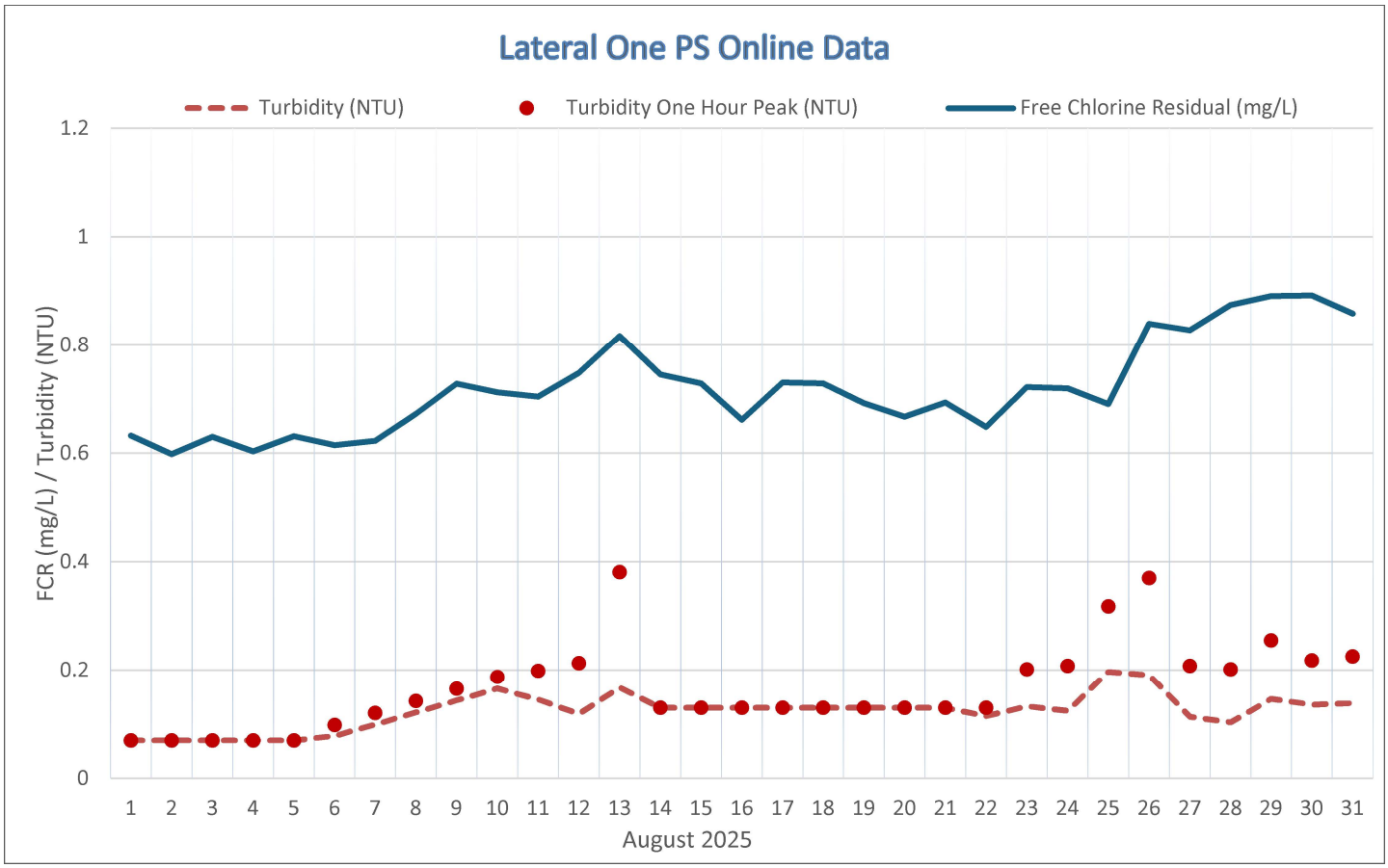
Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
Lateral One PS	3188 Shetler Dr	630	1st Customer water quality check.
Glenrosa PS	3149 Coventry Cres	673	Mid system water quality check. Water quality distributed throughout Glenrosa area.
Glenrosa Res	3313 Glenrosa Rd	673	Mid system water quality check on reservoir. Re-chlorination occurring at this location.
Smith Creek PS &Res	2802 Smith Creek Rd	630	Mid system water quality check. Water quality distributed throughout Smith Creek and downtown Westbank area.
Dixie Res	2850 Dixie Rd	630	Mid system water quality check. Re-chlorination occurring at this location.
End-of-Line WQS	4119 Gellatly Rd	449	End system water quality check.
McIver SS	3036 McIver Rd	626	Mid system water quality check.
Bulk Water Stn	3020 Shannon Lake Rd	583	End system water quality check. Water quality for bulk water filling and free water available to public.

- **PS** = Pump Station
- **SS**= Sample Station
- **Res** = Reservoir
- **WQS** = Water Quality Station

Note: Water Quality (WQ) field data results reflect that of the noted location within the distribution system at the time of the grab sample collection.

Lateral One PS

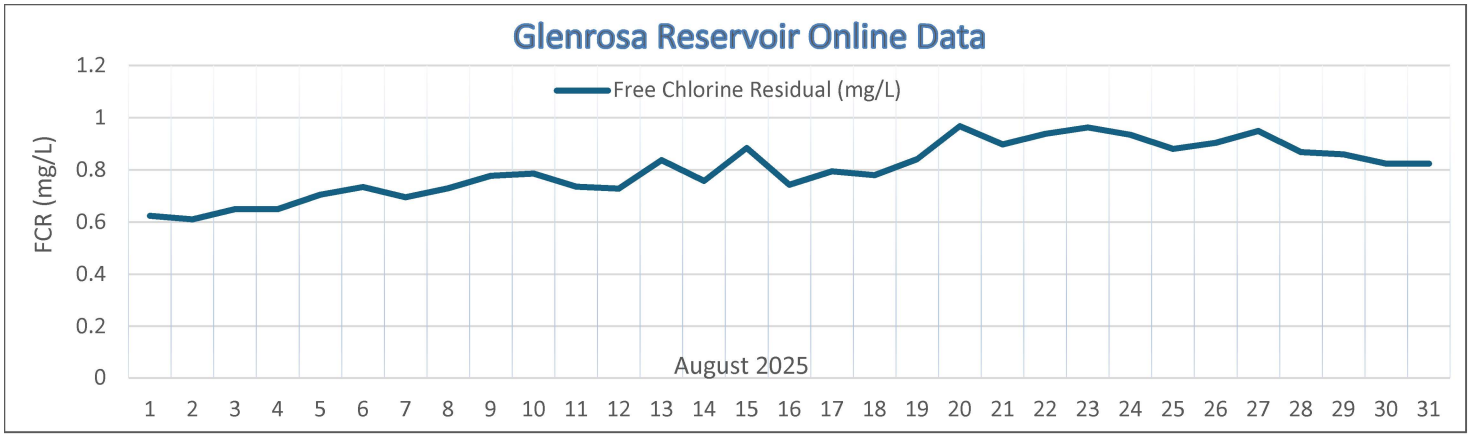
Lateral One PS Online Data							
Date	pH	Turbidity	Turbidity (Peak 1 Hr)	Temp	FCR		
	Avg (pH)	Avg (NTU)	Max Based On 1 Hr Avg	Avg (ºC)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
August 2025							
1	7.11	0.07	0.07	19.73	0.45	0.72	0.63
2	7.14	0.07	0.07	19.24	0.48	0.66	0.60
3	7.17	0.07	0.07	18.95	0.46	0.69	0.63
4	7.11	0.07	0.07	18.64	0.46	0.67	0.60
5	7.14	0.07	0.07	18.45	0.52	0.73	0.63
6	7.13	0.08	0.10	18.58	0.47	0.72	0.61
7	7.11	0.10	0.12	17.23	0.50	0.72	0.62
8	7.11	0.12	0.14	16.76	0.51	0.74	0.67
9	7.11	0.14	0.17	17.68	0.58	0.82	0.73
10	7.11	0.17	0.19	19.04	0.55	0.81	0.71
11	7.11	0.15	0.20	20.09	0.58	0.76	0.70
12	7.14	0.12	0.21	20.43	0.44	0.86	0.75
13	7.20	0.17	0.38	20.46	0.47	1.03	0.82
14	7.21	0.13	0.13	19.52	0.60	0.81	0.75
15	7.21	0.13	0.13	18.86	0.57	0.80	0.73
16	7.21	0.13	0.13	18.64	0.51	0.74	0.66
17	7.21	0.13	0.13	18.82	0.57	0.82	0.73
18	7.21	0.13	0.13	18.28	0.58	0.81	0.73
19	7.26	0.13	0.13	20.22	0.52	0.89	0.69
20	7.20	0.13	0.13	20.04	0.53	0.87	0.67
21	7.20	0.13	0.13	19.44	0.55	0.91	0.69
22	7.21	0.11	0.13	19.71	0.54	0.93	0.65
23	7.23	0.13	0.20	19.46	0.55	0.90	0.72
24	7.22	0.12	0.21	20.57	0.51	0.92	0.72
25	7.19	0.20	0.32	21.75	0.49	0.90	0.69
26	7.23	0.19	0.37	19.34	0.49	0.93	0.84
27	7.19	0.11	0.21	18.99	0.65	0.93	0.83
28	7.21	0.10	0.20	18.83	0.75	0.97	0.87
29	7.21	0.15	0.26	19.56	0.70	0.98	0.89
30	7.21	0.14	0.22	20.13	0.70	0.98	0.89
31	7.22	0.14	0.23	19.57	0.69	0.96	0.86
Average	7.18	0.12		19.26	0.55	0.84	0.72
Min	7.11	0.07		16.76	0.44	0.66	0.60
Max	7.26	0.20	0.38	21.75	0.75	1.03	0.89



Lateral One PS Water Quality						
Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
05-Aug-25	0.12	0.12	18.2	0.65	0.72	7.49
12-Aug-25	0.1	0.11	22.3	0.6	0.59	7.53
19-Aug-25	0.14	0.14	16.4	0.8	0.84	7.38
26-Aug-25	0.16	0.1	19.2	0.86	0.89	7.76
# of Samples	4	4	4	4	4	4
Average	0.13	0.12	19.03	0.73	0.76	7.54
Range	0.10-0.16	0.10-0.14	16.4-22.3	0.60-0.86	0.59-0.89	7.38-7.76

Glenrosa PS & Reservoir

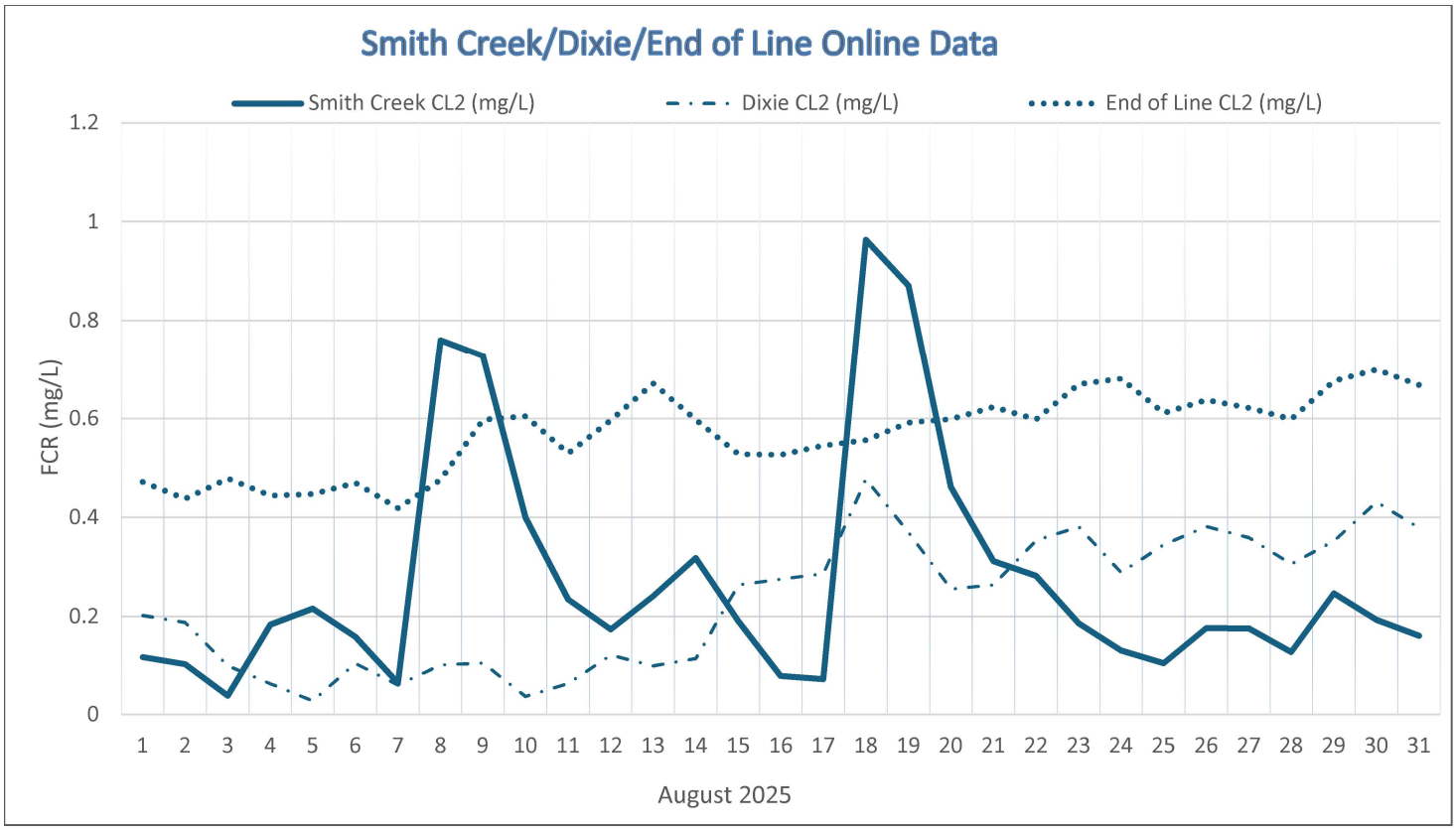
Glenrosa PS & Reservoir Online Data					
Date	Flow Total From PS	Peak Flow From PS	Reservoir pH	Reservoir Temp	FCR
	(ML)	Max (ML/Day)	Avg (pH)	Avg (°C)	Avg (mg/L)
August 2025					
1	3.33	5.02	8.07	17.49	0.62
2	3.62	8.93	8.07	17.59	0.61
3	4.05	5.03	8.07	17.48	0.65
4	3.29	5.03	8.08	17.45	0.65
5	3.83	8.93	8.08	17.20	0.71
6	3.48	8.73	8.08	17.04	0.73
7	2.97	5.05	8.09	16.56	0.70
8	2.93	5.04	8.09	16.12	0.73
9	4.03	8.77	8.08	16.26	0.78
10	3.98	5.03	8.07	16.70	0.79
11	3.36	5.03	8.07	17.23	0.74
12	3.97	5.04	8.07	17.33	0.73
13	3.99	8.73	8.08	17.50	0.84
14	3.20	5.05	8.08	17.40	0.76
15	3.04	5.07	8.09	17.16	0.88
16	3.21	5.06	8.09	16.85	0.74
17	3.73	5.07	8.09	16.66	0.80
18	3.13	5.07	8.08	16.35	0.78
19	3.58	5.06	8.09	16.35	0.84
20	3.98	8.96	8.10	16.22	0.97
21	3.55	5.06	8.09	15.86	0.90
22	3.11	5.06	8.10	15.47	0.94
23	4.01	9.03	8.10	15.24	0.96
24	4.02	8.98	8.09	15.44	0.93
25	3.67	5.04	8.08	15.79	0.88
26	3.59	5.08	8.09	16.10	0.90
27	4.10	9.07	8.08	16.40	0.95
28	3.46	5.05	8.08	16.53	0.87
29	3.69	5.09	8.05	16.95	0.86
30	3.74	5.07	8.03	17.09	0.82
31	3.98	8.98	8.03	17.09	0.82
Total	108				
Average	3.60	6.30	8.08	16.67	0.80
Min	2.93	5.02	8.03	15.24	0.61
Max	4.10	9.07	8.10	17.59	0.97



Smith Creek PS, Dixie Reservoir & End-of-Line WQS

Date	Smith Creek FCR			Dixie Reservoir FCR			End of The Line FCR		
	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
August 2025									
1	0.04	0.21	0.12	0.14	0.28	0.20	0.36	0.51	0.47
2	0.06	0.13	0.10	0.13	0.24	0.19	0.38	0.50	0.44
3	0.01	0.06	0.04	0.06	0.13	0.10	0.44	0.55	0.48
4	0.01		0.18	0.04	0.10	0.06	0.42	0.48	0.44
5	0.14	0.35	0.22	0.01	0.15	0.03	0.42	0.51	0.45
6	0.10	0.21	0.16	0.05	0.15	0.11	0.41	0.55	0.47
7	0.01	0.12	0.07	0.03	0.10	0.06	0.40	0.44	0.42
8	0.03		0.76	0.01	0.18	0.10	0.43	0.56	0.48
9	0.53	1.01	0.73	0.06	0.15	0.11	0.54	0.65	0.60
10	0.28	0.53	0.40	0.01	0.06	0.04	0.58	0.66	0.60
11	0.17	0.36	0.23	0.01	0.13	0.06	0.50	0.58	0.53
12	0.12	0.24	0.17	0.07	0.18	0.12	0.56	0.63	0.60
13	0.12	0.55	0.24	0.07	0.13	0.10	0.59	0.86	0.67
14	0.12	0.53	0.32	0.04	0.22	0.12	0.53	0.79	0.60
15	0.08	0.46	0.19	0.12	0.40	0.26	0.50	0.57	0.53
16	0.04	0.12	0.08	0.21	0.34	0.28	0.46	0.59	0.53
17	0.03	0.21	0.07	0.18	0.55	0.29	0.47	0.60	0.55
18	0.15		0.96	0.42	0.51	0.48	0.54	0.58	0.56
19	0.00	2.23	0.87	0.30	0.46	0.37	0.56	0.63	0.59
20	0.36	0.57	0.46	0.19	0.32	0.26	0.54	0.70	0.60
21	0.22	0.42	0.31	0.19	0.35	0.26	0.58	0.69	0.62
22	0.18	0.55	0.28	0.26	0.46	0.35	0.57	0.67	0.60
23	0.15	0.24	0.19	0.34	0.42	0.38	0.62	0.76	0.67
24	0.08	0.17	0.13	0.23	0.35	0.29	0.63	0.78	0.68
25	0.07	0.17	0.11	0.19	0.48	0.35	0.59	0.63	0.61
26	0.12	0.40	0.18	0.31	0.42	0.38	0.59	0.70	0.64
27	0.08	0.44	0.18	0.30	0.42	0.36	0.56	0.70	0.62
28	0.04	0.35	0.13	0.25	0.35	0.31	0.57	0.68	0.60
29	0.03		0.25	0.18	0.47	0.35	0.63	0.71	0.68
30	0.15	0.25	0.19	0.37	0.48	0.43	0.66	0.76	0.70
31	0.14	0.18	0.16	0.34	0.41	0.38	0.63	0.75	0.67
Average	0.12	0.41	0.27	0.16	0.30	0.23	0.52	0.64	0.57
Min	0.00	0.06	0.04	0.01	0.06	0.03	0.36	0.44	0.42
Max	0.53	2.23	0.96	0.42	0.55	0.48	0.66	0.86	0.70

- August 4, 8, 18 & 29, 2025 – Outliers recorded as the maximum FCR at Smith Creek Pump Station and Reservoir have been excluded from the dataset, as they do not accurately represent water quality of the location due to maintenance activities.



- Please note the online FCR Sample location of the Smith Creek Pump Station to the Dixie Reservoir/Re-chlorination Station is situated from a pipe with intermittent flows based on pump and back-feed cycles. Lower FCR readings followed by higher reading are typical due to these dynamics. Planning underway to relocate the sample location to a section of pipe to best represent the water being consistently provide to the service area.

End-of-Line WQS Water Quality					
Date	Turbidity	Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
05-Aug-25	0.09	19.5	0.36	0.43	7.55
12-Aug-25	0.12	19.2	0.6	0.59	7.58
19-Aug-25	0.07	18.2	0.56	0.58	7.18
26-Aug-25	0.11	18.8	0.48	0.64	7.6
# of Samples	4	4	4	4	4
Average	0.098	18.93	0.50	0.56	7.48
Range	0.07-0.12	18.2-19.5	0.36-0.6	0.43-0.64	7.18-7.6

WQ Field Data

McIver SS

McIver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
05-Aug-25	0.24	18.5	0.45	7.52
12-Aug-25	0.10	18.4	0.6	7.57
19-Aug-25	0.07	18.0	0.64	7.38
26-Aug-25	0.15	18.6	0.83	7.60
# of Samples	4	4	4	4
Average	0.14	18.38	0.63	7.52
Range	0.07-0.24	18.0-18.6	0.45-0.83	7.38-7.60

Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
05-Aug-25	0.23	19.8	0.45	7.56
12-Aug-25	0.12	18.8	0.63	7.55
19-Aug-25	0.12	18.6	0.63	7.32
26-Aug-25	0.34	18.5	0.72	7.66
# of Samples	4	4	4	4
Average	0.20	18.93	0.61	7.52
Range	0.12-0.34	18.5-19.8	0.45-0.72	7.32-7.66

Disinfection Byproducts

Powers Creek Water Service Area - THM Results (mg/L) MAC=0.10mg/L

Date	Lateral One PS	End-of-Line	McIver SS	Bulk Water Station
12-Aug-24	0.0368	0.0475	0.0404	
27-Nov-24	0.0218	0.0486	0.0552	
25-Feb-25	0.0382	0.0402	0.0766	
27-May-25	0.0267	0.0412	0.045	
19-Aug-25	0.0376	0.0365	0.0318	0.0574
Average	0.03222	0.0428	0.0498	

Powers Creek Water Service Area - HAA5 Results (mg/L) MAC=0.08mg/L

Date	Lateral One PS	End-of-Line	McIver SS	Bulk Water Station
12-Aug-24	0.0205	0.0242	0.0212	
27-Nov-24	0.0264	0.0382	0.0476	
25-Feb-25	0.0238	0.03	0.0351	
27-May-25	0.0218	0.0308	0.0383	
19-Aug-25	0.0205	0.0312	0.0318	0.0277
Average	0.0226	0.03088	0.0348	

Manganese

Power's Creek Water Service Area - Manganese Results (mg/L) MAC=0.12mg/L

Location	25-Feb-25	27-May-25	19-Aug-25	Average
Lateral One	0.0044	0.0028	0.0042	0.0039
McIver	0.0022	0.0090	0.0017	0.0034
End-of-Line	0.0073	0.0071	0.0016	0.0037
Bulk Water Station			0.0057	0.0057