

CITY OF WEST KELOWNA

Monthly Water Quality Report



**Powers Creek Water Service Area
December 2025**

WATER SUPPLY AND TREATMENT





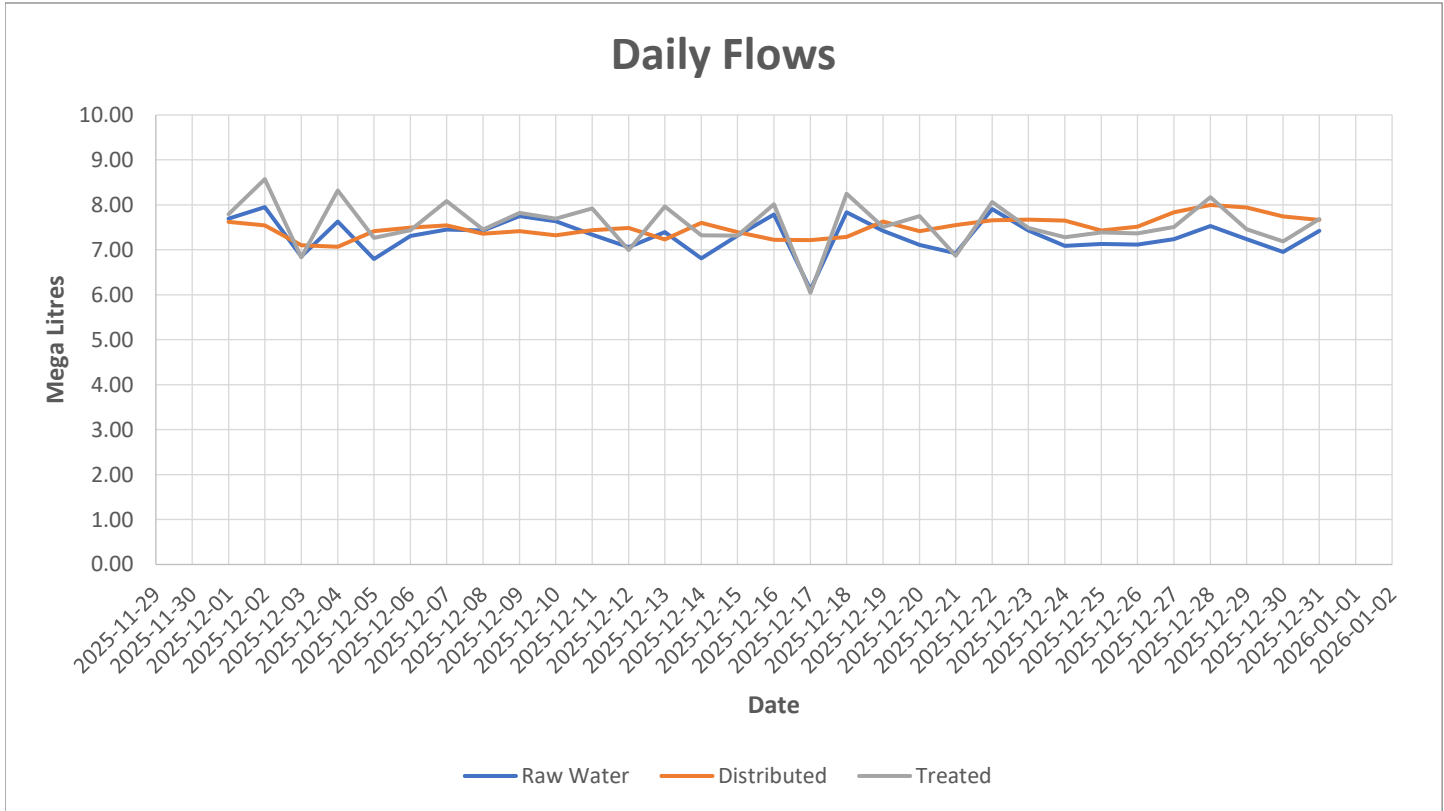
Powers Creek Water Treatment Plant Monthly Water Quality Summary

2026-01-09

December, 2025

Flow Demand:

	Total for Month
Raw Processed Water:	226.65 ML
Treated Water :	234.80 ML
Distributed Water :	232.43 ML
Backwash Water :	8.74 ML



Notes:

Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2025-12-01	0.36	0.97	0.42	7.68	7.75	7.71
2025-12-02	0.33	1.46	0.44	7.67	7.73	7.71
2025-12-03	0.32	0.39	0.35	7.68	7.72	7.70
2025-12-04	0.34	0.96	0.40	7.70	7.74	7.72
2025-12-05	0.34	1.65	0.54	7.67	7.73	7.69
2025-12-06	0.67	3.29	0.89	7.66	7.73	7.69
2025-12-07	0.43	1.76	0.67	7.68	7.74	7.71
2025-12-08	0.55	1.03	0.69	7.38	7.75	7.64
2025-12-09	0.69	2.93	0.99	7.39	7.77	7.55
2025-12-10	1.11	3.63	1.68	7.67	7.78	7.71
2025-12-11	2.36	7.52	3.21	7.66	7.73	7.69
2025-12-12	2.50	8.12	2.91	7.68	7.73	7.71
2025-12-13	1.70	6.24	2.49	7.65	7.72	7.68
2025-12-14	1.70	4.39	1.87	7.66	7.72	7.69
2025-12-15	1.27	6.14	2.04	7.65	7.71	7.69
2025-12-16	2.98	9.23	4.14	7.62	7.81	7.71
2025-12-17	2.85	10.83	4.83	7.56	7.76	7.66
2025-12-18	2.55	5.43	2.78	7.54	7.67	7.60
2025-12-19	1.73	3.57	2.40	7.54	7.67	7.59
2025-12-20	1.74	5.72	1.94	7.57	7.70	7.62
2025-12-21	1.57	5.90	2.20	7.38	7.72	7.61
2025-12-22	1.49	3.65	1.69	7.39	7.82	7.57
2025-12-23	1.83	4.32	2.07	7.79	7.89	7.83
2025-12-24	1.17	2.93	1.46	7.52	7.84	7.70
2025-12-25	1.33	3.86	1.60	7.53	7.65	7.58
2025-12-26	1.75	4.51	1.96	7.64	7.72	7.68
2025-12-27	1.23	2.73	1.59	7.60	7.69	7.64
2025-12-28	1.24	3.20	1.42	7.40	7.66	7.57
2025-12-29	1.28	2.59	1.56	7.62	7.77	7.70
2025-12-30	0.96	2.72	1.32	7.63	7.71	7.67
2025-12-31	1.31	3.48	1.66	7.67	7.74	7.70

Notes:

Raw Water Specifications (Continued):

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2025-12-01	1.22	1.38	1.26	6.31	6.62	6.49
2025-12-02	1.20	1.65	1.36	6.29	6.62	6.39
2025-12-03	1.65	2.10	1.89	6.31	6.53	6.43
2025-12-04	1.96	2.14	2.05	6.33	6.56	6.43
2025-12-05	1.79	2.16	1.99	6.23	6.51	6.41
2025-12-06	1.79	2.09	1.92	6.33	6.57	6.43
2025-12-07	2.02	2.39	2.14	6.26	6.65	6.50
2025-12-08	2.36	4.45	2.48	6.50	6.90	6.66
2025-12-09	2.69	3.15	2.89	6.94	8.27	7.70
2025-12-10	3.12	3.40	3.26	8.12	9.03	8.50
2025-12-11	3.38	4.00	3.67	9.05	11.97	11.00
2025-12-12	3.90	4.01	3.95	10.37	11.59	10.96
2025-12-13	3.69	4.01	3.82	10.13	10.51	10.31
2025-12-14	3.87	4.67	4.23	10.38	11.31	10.79
2025-12-15	4.68	5.28	4.90	11.22	13.24	11.83
2025-12-16	3.78	5.04	4.22	13.65	19.23	17.65
2025-12-17	3.95	4.74	4.41	18.47	22.89	20.19
2025-12-18	3.23	4.29	3.60	???	38.27	19.73
2025-12-19	2.26	3.23	2.52	15.96	17.71	16.69
2025-12-20	1.90	2.40	2.15	14.51	15.96	15.32
2025-12-21	2.35	3.06	2.72	13.55	14.56	14.01
2025-12-22	2.54	2.96	2.72	12.62	13.54	13.00
2025-12-23	2.46	3.65	2.75	11.97	12.77	12.33
2025-12-24	2.20	5.47	3.39	11.46	12.00	11.68
2025-12-25	2.31	2.67	2.49	11.05	11.53	11.31
2025-12-26	2.45	2.83	2.60	10.83	11.23	11.00
2025-12-27	1.32	2.48	1.81	10.66	11.05	10.86
2025-12-28	1.04	1.33	1.15	11.06	11.37	11.26
2025-12-29	1.00	1.21	1.08	10.34	11.30	10.87
2025-12-30	0.79	1.06	0.93	9.64	10.14	9.88
2025-12-31	0.83	1.14	0.94	9.21	9.67	9.41

Notes:

Dec 18th - Serviced DOC Analyzer

Raw Water Specifications (Continued):

Date	Raw Cond ($\mu\text{S}/\text{cm}$)			Streaming Current		
	Min	Max	Average	Min	Max	Average
2025-12-01	95.68	96.50	96.04	7.30	15.62	10.19
2025-12-02	93.10	95.26	94.50	-34.02	14.50	10.87
2025-12-03	93.30	96.07	94.63	-58.89	16.50	4.70
2025-12-04	87.61	92.35	90.72	-1.02	5.32	2.58
2025-12-05	84.50	96.51	93.30	-1.83	9.42	3.65
2025-12-06	92.01	95.98	94.27	0.96	11.54	4.45
2025-12-07	90.44	94.88	92.48	-1.07	7.35	2.42
2025-12-08	1.80	95.60	94.17	-1.88	5.20	0.96
2025-12-09	90.98	94.09	92.58	-7.34	3.89	-2.08
2025-12-10	87.45	93.46	91.26	-14.25	-3.05	-9.38
2025-12-11	85.13	90.42	88.40	-47.82	9.47	-14.17
2025-12-12	83.71	91.14	88.06	-16.02	19.34	1.94
2025-12-13	88.66	90.65	89.37	-0.97	18.48	9.69
2025-12-14	88.06	89.55	88.93	3.22	21.39	12.12
2025-12-15	83.95	93.35	88.14	-1.90	37.99	11.33
2025-12-16	78.01	81.97	79.15	-1.00	47.33	12.25
2025-12-17	74.11	78.38	76.10	-47.04	103.60	14.91
2025-12-18	74.88	76.95	75.86	-3.05	75.82	18.63
2025-12-19	76.43	79.00	77.35	5.32	67.81	25.71
2025-12-20	79.47	82.26	80.76	12.33	43.92	25.81
2025-12-21	82.22	85.48	82.69	8.16	47.40	27.80
2025-12-22	81.84	84.33	83.02	???	54.15	31.89
2025-12-23	83.12	86.14	84.66	29.33	68.65	44.23
2025-12-24	60.86	87.36	86.15	31.14	57.35	43.98
2025-12-25	85.35	88.38	87.22	30.50	55.18	42.90
2025-12-26	85.44	88.21	86.71	37.03	58.59	46.74
2025-12-27	87.45	96.18	91.02	37.03	60.56	46.17
2025-12-28	94.53	98.40	97.00	27.18	48.05	38.01
2025-12-29	79.56	91.19	86.39	6.08	57.30	44.00
2025-12-30	78.53	93.12	89.37	41.11	68.10	51.91
2025-12-31	89.27	91.31	90.93	45.14	67.72	56.36

Notes:

Dec 22nd - Serviced Streaming Current Analyzer

Raw Water Specifications (Continued):

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2025-12-01	7.15	7.31	7.20	3.06	3.33	3.17
2025-12-02	7.13	7.30	7.18	2.68	3.48	3.17
2025-12-03	7.13	7.29	7.18	3.54	3.95	3.78
2025-12-04	7.16	7.32	7.20	3.89	4.20	3.99
2025-12-05	7.16	7.23	7.19	3.79	4.24	4.03
2025-12-06	7.15	7.17	7.16	3.83	3.96	3.89
2025-12-07	7.17	7.21	7.18	3.93	4.27	4.06
2025-12-08	7.15	7.19	7.17	4.24	5.73	4.54
2025-12-09	7.13	7.15	7.14	4.45	5.23	4.99
2025-12-10	7.10	7.16	7.14	5.26	5.81	5.58
2025-12-11	7.05	7.10	7.08	3.82	8.99	5.11
2025-12-12	7.03	7.10	7.06	4.02	4.22	4.12
2025-12-13	7.03	7.05	7.05	3.89	4.12	3.98
2025-12-14	7.02	7.05	7.03	4.11	4.83	4.45
2025-12-15	6.98	7.09	7.04	4.91	5.45	5.16
2025-12-16	6.88	6.95	6.91	4.00	12.93	4.48
2025-12-17	6.77	6.90	6.82	3.87	4.78	4.45
2025-12-18	6.79	6.89	6.84	3.70	3.92	3.83
2025-12-19	6.81	6.88	6.84	2.77	7.98	3.12
2025-12-20	6.85	6.93	6.88	2.38	2.81	2.60
2025-12-21	6.92	6.98	6.94	2.95	3.35	3.11
2025-12-22	6.88	6.96	6.92	2.72	6.50	2.99
2025-12-23	6.90	6.97	6.94	2.47	2.71	2.60
2025-12-24	6.86	6.98	6.92	2.31	2.64	2.48
2025-12-25	6.89	6.98	6.93	2.52	2.68	2.61
2025-12-26	6.92	6.95	6.93	2.59	2.87	2.70
2025-12-27	6.89	7.00	6.94	1.46	2.28	1.92
2025-12-28	7.02	7.06	7.04	1.19	1.36	1.29
2025-12-29	7.00	7.08	7.04	1.13	1.29	1.22
2025-12-30	6.99	7.04	7.01	1.18	1.29	1.23
2025-12-31	6.96	7.02	6.99	1.24	1.55	1.39

Notes:

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Train 1 Filter Turbidity (NTU):

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-12-01	0.04	0.05	0.05	0.03	0.05	0.03	0.01	0.06	0.02
2025-12-02	0.04	0.06	0.05	0.03	0.05	0.03	0.01	0.01	0.01
2025-12-03	0.02	0.13	0.04	0.03	0.04	0.03	0.01	0.03	0.02
2025-12-04	0.02	0.02	0.02	0.03	0.04	0.03	0.02	0.02	0.02
2025-12-05	0.02	0.03	0.02	0.02	0.07	0.04	0.02	0.02	0.02
2025-12-06	0.02	0.10	0.03	0.02	0.03	0.02	0.02	0.03	0.02
2025-12-07	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03
2025-12-08	0.02	0.06	0.03	0.02	0.05	0.02	0.03	0.03	0.03
2025-12-09	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03
2025-12-10	0.02	0.05	0.03	0.02	0.04	0.03	0.03	0.03	0.03
2025-12-11	0.02	0.03	0.02	0.03	0.05	0.03	0.03	0.03	0.03
2025-12-12	0.02	0.04	0.03	0.03	0.03	0.03	0.01	0.06	0.02
2025-12-13	0.03	0.04	0.04	0.03	0.05	0.04	0.01	0.02	0.01
2025-12-14	0.03	0.05	0.04	0.04	0.05	0.04	0.01	0.02	0.01
2025-12-15	0.02	0.06	0.03	0.03	0.05	0.04	0.01	0.03	0.02
2025-12-16	0.02	1.69	0.06	0.02	0.07	0.03	0.02	0.02	0.02
2025-12-17	0.02	0.06	0.03	0.02	0.05	0.03	0.02	0.03	0.03
2025-12-18	0.02	0.06	0.05	0.03	0.05	0.04	0.01	0.05	0.02
2025-12-19	0.06	0.07	0.06	0.02	0.07	0.03	0.01	0.02	0.02
2025-12-20	0.06	0.07	0.06	0.02	0.07	0.03	0.02	0.02	0.02
2025-12-21	0.02	0.07	0.05	0.03	0.59	0.07	0.02	0.03	0.02
2025-12-22	0.02	0.06	0.03	0.05	0.06	0.05	0.02	0.03	0.03
2025-12-23	0.03	4.00	0.09	0.02	0.07	0.04	0.03	0.03	0.03
2025-12-24	0.04	0.05	0.04	0.02	0.07	0.03	0.03	0.03	0.03
2025-12-25	0.04	0.05	0.05	0.02	0.17	0.06	0.03	0.04	0.03
2025-12-26	0.05	0.05	0.05	0.02	0.06	0.03	0.03	0.04	0.03
2025-12-27	0.05	0.06	0.06	0.02	0.17	0.05	0.03	0.04	0.04
2025-12-28	0.05	0.07	0.06	0.02	0.06	0.02	0.03	0.04	0.04
2025-12-29	0.05	0.06	0.06	0.02	0.09	0.04	0.03	0.05	0.04
2025-12-30	0.06	0.06	0.06	0.02	0.10	0.03	0.02	0.07	0.03
2025-12-31	0.05	0.07	0.06	0.03	0.03	0.03	0.01	0.02	0.01

Notes:

Dec 16th - Filter 1 Taken out of service and drained, 1.69NTU while draining filter to waste.
 Dec 21st - Filter 2 Taken out of service and drained, 0.59NTU while draining filter to waste.
 Dec 23rd - Filter 1 Taken out of service and drained, 4.00NTU while draining filter to waste.

Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-12-01	0.08	0.08	0.08	0.02	0.03	0.03	0.02	0.05	0.03
2025-12-02	0.08	0.08	0.08	0.03	0.05	0.03	0.01	0.02	0.02
2025-12-03	0.08	0.08	0.08	0.03	0.06	0.03	0.02	0.04	0.03
2025-12-04	0.08	0.08	0.08	0.03	0.03	0.03	0.03	0.04	0.03
2025-12-05	0.07	0.08	0.08	0.02	0.06	0.03	0.03	0.05	0.03
2025-12-06	0.07	0.07	0.07	0.03	0.10	0.04	0.02	0.05	0.03
2025-12-07	0.07	0.07	0.07	0.02	0.04	0.03	0.02	0.03	0.02
2025-12-08	0.07	0.07	0.07	0.03	0.03	0.03	0.01	0.02	0.02
2025-12-09	0.02	1.57	0.06	0.03	0.04	0.03	0.01	0.04	0.02
2025-12-10	0.03	0.11	0.03	0.04	0.04	0.04	0.02	0.04	0.03
2025-12-11	0.03	0.04	0.03	0.03	0.07	0.04	0.03	0.03	0.03
2025-12-12	0.03	0.07	0.04	0.03	0.03	0.03	0.02	0.05	0.03
2025-12-13	0.03	0.04	0.04	0.04	0.05	0.04	0.02	0.02	0.02
2025-12-14	0.03	0.04	0.04	0.04	0.05	0.04	0.02	0.03	0.02
2025-12-15	0.03	0.09	0.04	0.04	0.06	0.05	0.02	0.09	0.04
2025-12-16	0.02	0.03	0.03	0.05	0.06	0.06	0.06	0.08	0.06
2025-12-17	0.03	0.09	0.06	0.05	0.06	0.05	0.02	0.08	0.04
2025-12-18	0.07	0.08	0.08	0.07	0.08	0.07	0.02	0.03	0.02
2025-12-19	0.08	0.08	0.08	0.03	0.12	0.06	0.02	0.03	0.02
2025-12-20	0.07	0.08	0.07	0.03	0.04	0.03	0.03	0.03	0.03
2025-12-21	0.02	0.08	0.06	0.03	0.12	0.05	0.02	0.03	0.03
2025-12-22	0.02	0.03	0.02	0.03	0.07	0.04	0.03	0.04	0.03
2025-12-23	0.02	0.04	0.02	0.04	0.04	0.04	0.03	0.05	0.03
2025-12-24	0.02	0.07	0.03	0.03	0.05	0.04	0.03	0.05	0.04
2025-12-25	0.02	0.06	0.03	0.03	0.05	0.03	0.04	0.05	0.04
2025-12-26	0.02	0.03	0.02	0.03	0.15	0.05	0.04	0.06	0.04
2025-12-27	0.01	0.02	0.02	0.04	0.04	0.04	0.03	0.06	0.04
2025-12-28	0.01	0.02	0.02	0.04	0.12	0.05	0.03	0.11	0.04
2025-12-29	0.01	0.03	0.02	0.03	0.13	0.05	0.04	0.08	0.04
2025-12-30	0.01	0.02	0.02	0.03	0.05	0.03	0.03	0.05	0.04
2025-12-31	0.01	0.02	0.02	0.03	0.04	0.04	0.01	0.05	0.02

Notes:

Dec 9th - Filter 4 Taken out of service and drained 1.57NTU while draining filter to waste

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2025-12-01	100.40	20.20	99.93
2025-12-02	99.00	21.58	99.93
2025-12-03	98.56	21.20	99.93
2025-12-04	95.10	20.95	99.93
2025-12-05	87.01	21.20	99.93
2025-12-06	99.35	21.40	99.93
2025-12-07	99.98	21.12	99.93
2025-12-08	100.57	21.08	99.93
2025-12-09	99.15	20.80	99.93
2025-12-10	99.05	20.28	99.93
2025-12-11	98.82	20.72	99.93
2025-12-12	98.87	21.70	99.93
2025-12-13	98.98	21.10	99.93
2025-12-14	99.41	21.50	99.93
2025-12-15	99.56	20.74	99.93
2025-12-16	98.82	21.08	99.93
2025-12-17	97.92	21.40	99.43
2025-12-18	98.84	20.10	90.57
2025-12-19	99.48	21.00	99.93
2025-12-20	99.77	20.48	99.93
2025-12-21	99.93	21.50	99.93
2025-12-22	94.66	20.82	99.93
2025-12-23	99.48	22.15	99.93
2025-12-24	98.88	22.10	99.93
2025-12-25	99.69	20.88	99.93
2025-12-26	95.48	22.20	99.93
2025-12-27	94.77	22.00	99.93
2025-12-28	100.13	20.50	99.93
2025-12-29	100.59	99.93	99.93
2025-12-30	99.79	99.93	99.93
2025-12-31	99.89	99.93	99.93

Notes:

UV Transmittance %:

Date	Min	Max	Average
2025-12-01	89.00	94.70	90.26
2025-12-02	89.20	97.90	90.58
2025-12-03	89.30	93.10	90.40
2025-12-04	88.40	95.80	90.29
2025-12-05	89.40	93.40	90.20
2025-12-06	89.50	98.00	90.42
2025-12-07	87.10	95.60	90.27
2025-12-08	88.80	97.60	90.14
2025-12-09	82.90	97.90	90.25
2025-12-10	89.00	91.30	90.00
2025-12-11	87.50	96.50	89.66
2025-12-12	87.20	94.70	88.97
2025-12-13	89.10	93.20	89.46
2025-12-14	88.40	94.40	89.78
2025-12-15	88.70	94.30	89.66
2025-12-16	87.40	91.20	89.53
2025-12-17	87.60	91.10	88.97
2025-12-18	87.00	94.90	88.57
2025-12-19	86.90	91.60	88.51
2025-12-20	87.00	93.80	88.21
2025-12-21	86.70	90.40	88.40
2025-12-22	88.10	91.50	89.73
2025-12-23	87.50	94.10	90.26
2025-12-24	88.80	92.90	90.13
2025-12-25	88.10	93.90	90.24
2025-12-26	88.60	93.60	90.46
2025-12-27	88.30	92.70	90.38
2025-12-28	87.00	91.60	89.12
2025-12-29	87.30	91.00	89.39
2025-12-30	88.30	92.90	90.19
2025-12-31	89.70	92.20	90.61

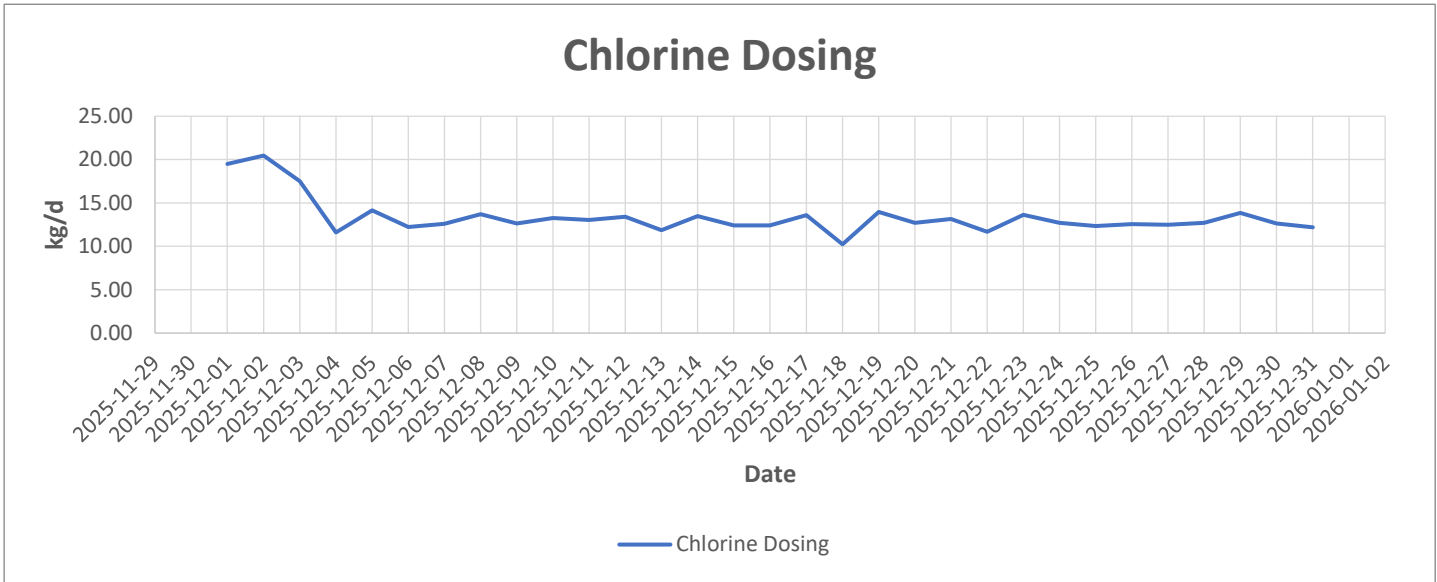
Notes:

Chemical Demand:

Chlorine Used:

Total for Month

414.61 Kgs

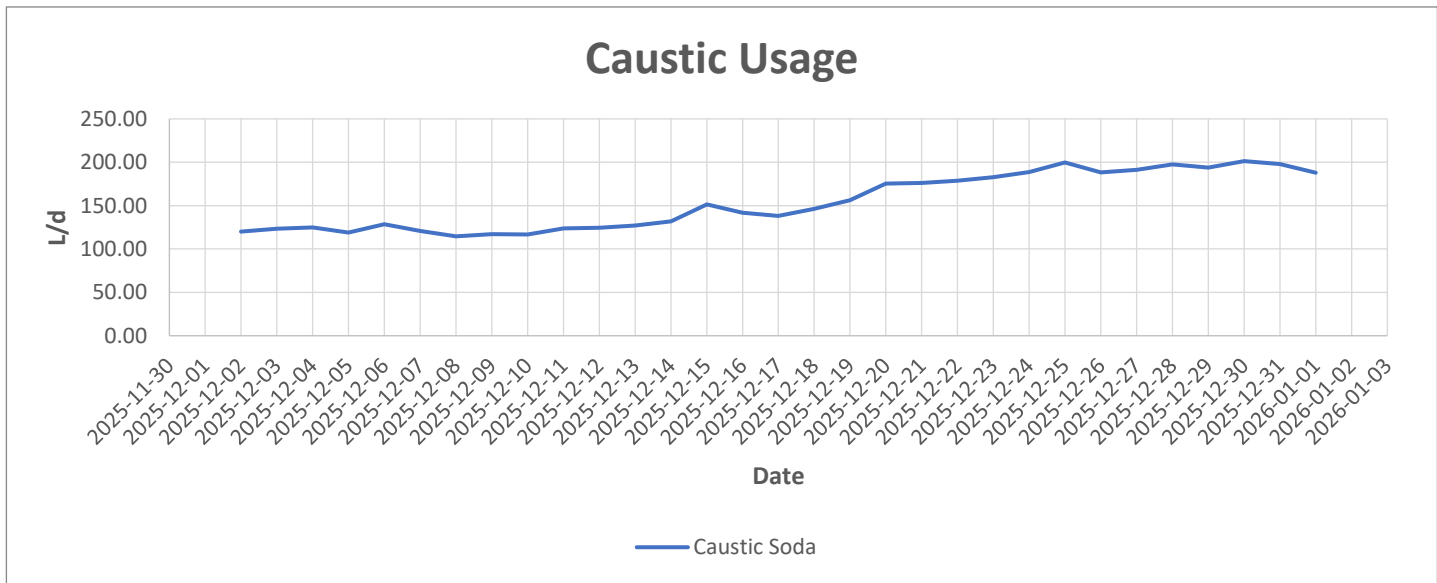


Notes:

Caustic Soda Used:

Total for Month

4785.43 Litres

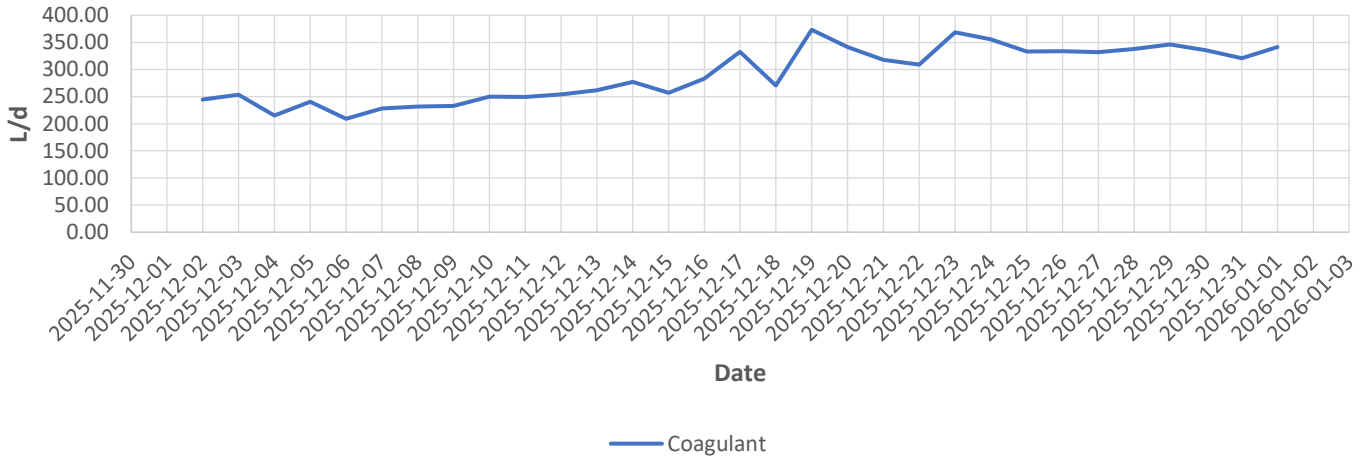


Notes:

Coagulant Used:

Total for Month
9036.97 Litres

Coagulant Usage



Notes:

DAF & Residual DAF Neat Polymer

Total for Month
198.02 L

Centrifuge Neat Polymer

Total for Month
300.38 L

Chlorine Dose

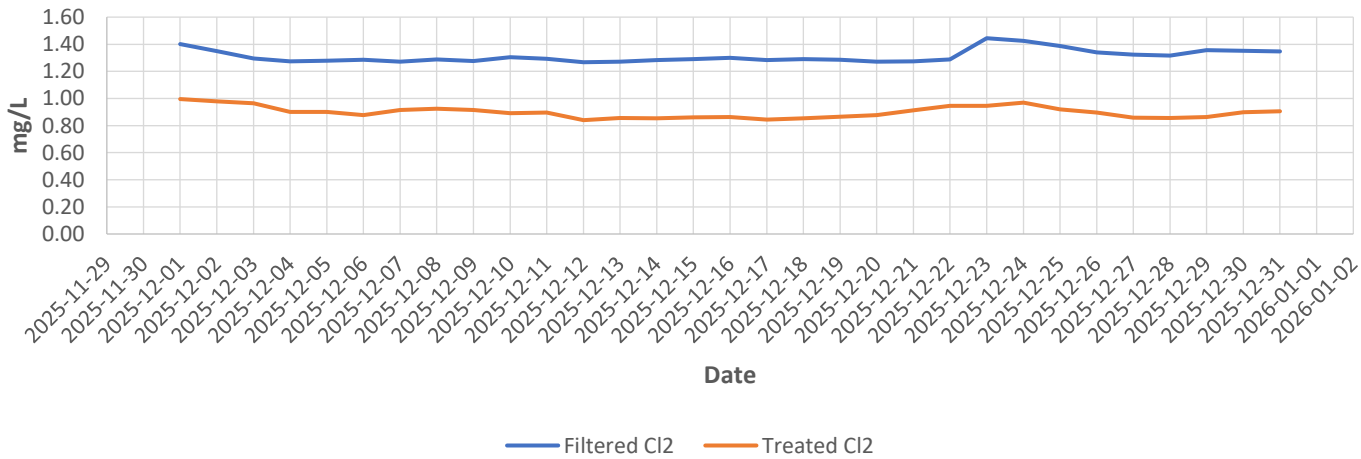
Filtered Water Residual Cl2 Average (mg/L):

1.31 mg/L

Treated Water (Distributed) Cl2 Average (mg/L):

0.90 mg/L

Average Residual CL2 Content

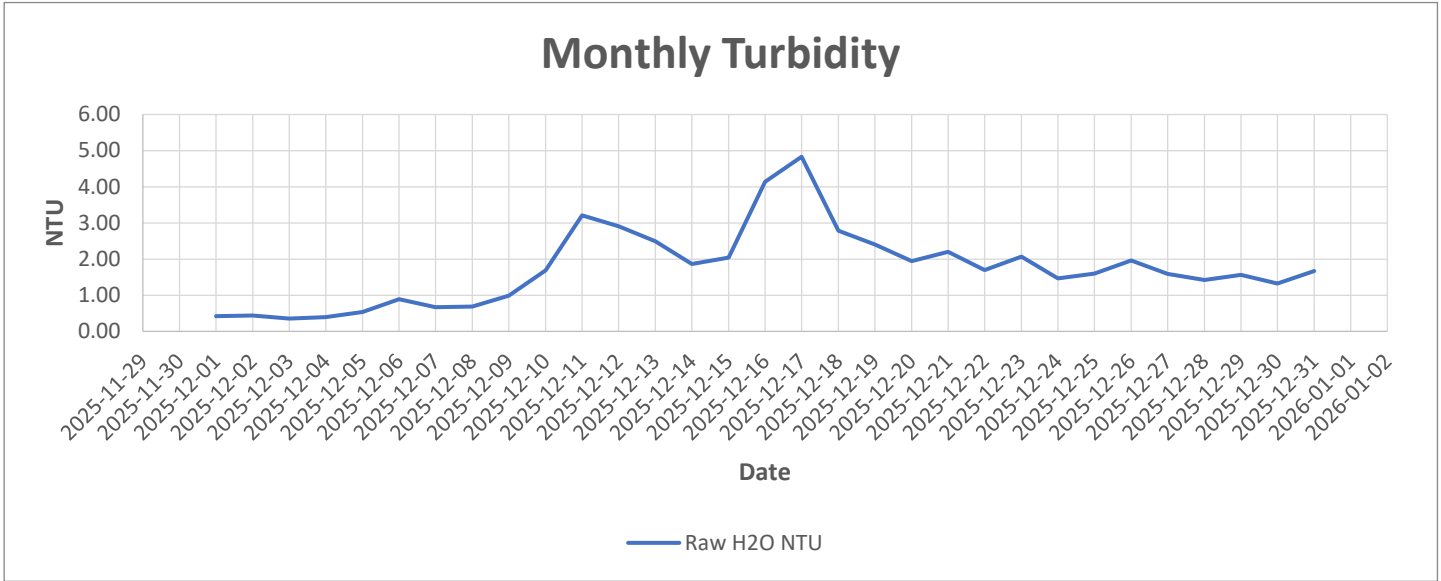


Water Quality Analytics:

Turbidity

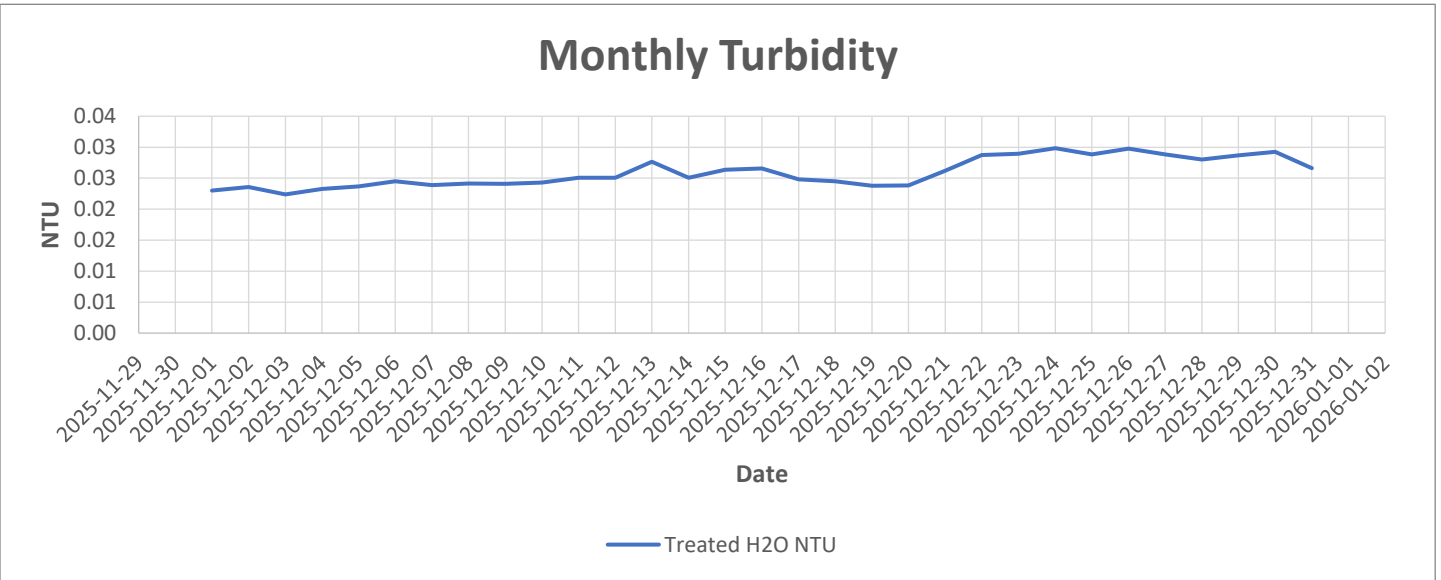
Raw Water Monthly Average:

1.75 NTU



Treated Water Monthly Average:

0.03 NTU



Notes:

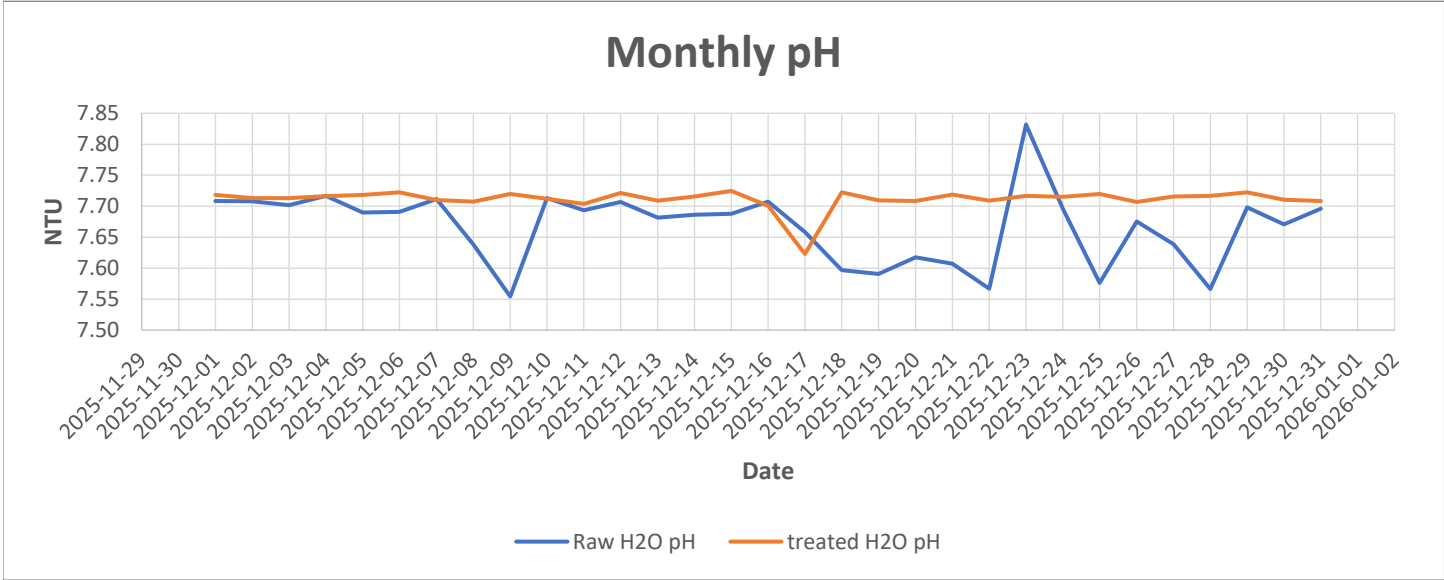
pH

Raw Water Monthly Average:

7.67 pH

Treated Water Monthly Average:

7.71 pH



Notes:

Powers Creek WTP Operational Highlights:

Ongoing Hypochlorite Project by Contrator (AECOM), all month (currently working on deficiencies)

- Dec 2nd - cleaned and rinsed DAF poly system and poly pumps
- Dec 2nd - CWK Engineering staff and contractor surveying/locating water main on intake road
- Dec 3rd - Contractor (Tri-Star) vac truck to suck out contaminated PAC tank, Sodium Hypochlorite on top of tank
- Dec 4th - Watershed crew/Electrician removed EFOY and batteries from Bearl Lake headgate (no comms) headgate is now operated manually
- Dec 4th - Welding contractor (Momentum) in to re/re valve on DAF #4
- Dec 4th/5th - cleaned and calibrated all NTU turbidity analyzers
- Dec 8th/9th - AECOM and subcontractor did sediment testing in creek
- Dec 9th - Irwin Safety in to look at confined space in Hypo room
- Dec 10th - Hypo walk through with all contractors (AECOM, Maple Reinders, Keldon, Centrix)
- Dec 11th - annual caustic pump maintenance
- Dec 11th - CWK Engineering staff and contractor locating water main on intake road
- Dec 12th - install new flow meter on raw water particle counter
- Dec 15th - Hypo walk through with AECOM for deficiencies
- Dec 16th-18th - 1000hr service on DAFs
- Dec 16th - cleaned and calibrated all pH analyzers
- Dec 17th - flush PAC pumps
- Dec 17th/-19th - AECOM and subcontractor doing creek study
- Dec 18th - cleaned DOC analyzer
- Dec 19th - Chemical (Hypochlorite) bulk load delivery
- Dec 22nd - CARE systems HVAC service
- Dec 22nd - Capital construction crew working on washout in staging area at plant.

Power Creek Watershed Operational Highlights:

Lambly

- Dec 3rd Site check
- Dec 4th Removed batteries from EFOY
- Dec 10th Site check logging is taking place at entrance gate to Lambly spillway

Jackpine

- Dec 3rd Site check
- Dec 10th Site check

Paynter

- Dec 3rd Site check
- Dec 10 Site check

Horseshoe

- Dec 3rd Site check
- Dec 10th Site check

Dobbin

- Dec 3rd Site check
- Dec 10th Site check

Tadpole

- Dec 3rd Site check
- Dec 10th Site check

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



Power's Creek Water Service Area – Distribution System Monitoring

December 2025

Water Quality Data Review

- Based on the Power's Creek Water Service Area distribution system grab sample data, it appears the turbidity, free-chlorine (FCR) and bacteriological results have met the Water Quality Objectives during the month of December.
- December Bacteriological Sampling Summary:
 - 16 samples to CARO for analysis
 - 12 samples analyzed in-house at RWWT
 - All bacteriological sample results were <1 CFU/100mL for Total Coliforms and <1 CFU/100mL *E.coli*
- December 1, 2025 – Glenrosa Reservoir FCR online analyzer calibration adjustment of 0.20mg/L decrease. Decreased target Chlorine residual dosing from 0.6mg/L to 0.5mg/L.
- December 1, 2025 – Dixie Reservoir online analyzer was cleaned and flushed, including the replacement of the membrane cap and electrolyte on the FCR sensor. Calibration performed 24 hours later.
 - December 2, 2025 – Dixie Reservoir FCR online analyzer calibration adjustment of 0.07mg/L decrease.
- December 1, 2025 – Smith Creek PS online analyzer was cleaned and flushed, including the replacement of the membrane cap and electrolyte on the FCR sensor. Calibration performed 24 hours later.
 - December 2, 2025 – Smith Creek PS FCR online analyzer Calibration adjustment of 0.07mg/L decrease and pH online analyzer calibration adjustment of 0.71 decrease for pH 7.0 and 0.67 decrease for pH 4.0.
- December 16-19 & 23-30, 2025 – Online analyzer was left in 'Maintenance Mode' and therefore the online data was flatlined and could not be trended. The data during this time was removed and readings went back to normal trending.

Operational System Improvements/Events

- December 2, 2025 – A water service leak at 3162 McCoy Road was repaired the same day by City crews and a City contractor. To manage the repair, the main was throttled to reduce water flow at the leak point while maintaining positive pressure to 26 homes in the area. Residents were notified in advance about the potential for lower water pressure during the work. The leak was successfully repaired and normal service restored that day.
- December 19, 2025 – Lateral One PS online analyzer unintentionally left in "maintenance mode" during flushing maintenance leading to a period without active readings. The event was discussed with the Utility Operations Team.
- December 29, 2025 – 2955 Lyon Crt curb stop repair completed.
- December 29, 2025 – 3693 Granada Cres service leak repair completed by City crews. Only the one home affected by repair.
- December 30, 2025 – 3379 McMorland Rd & 3379 McMurchie Rd service repair completed by City crews. Long sided service T'd off to each home, only the two homes were affected by the repair.

WQ Field and SCADA Data

Sampling Location Table:

Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
Lateral One PS	3188 Shetler Dr	630	1 st 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.
Mclver SS	3036 Mclver 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.

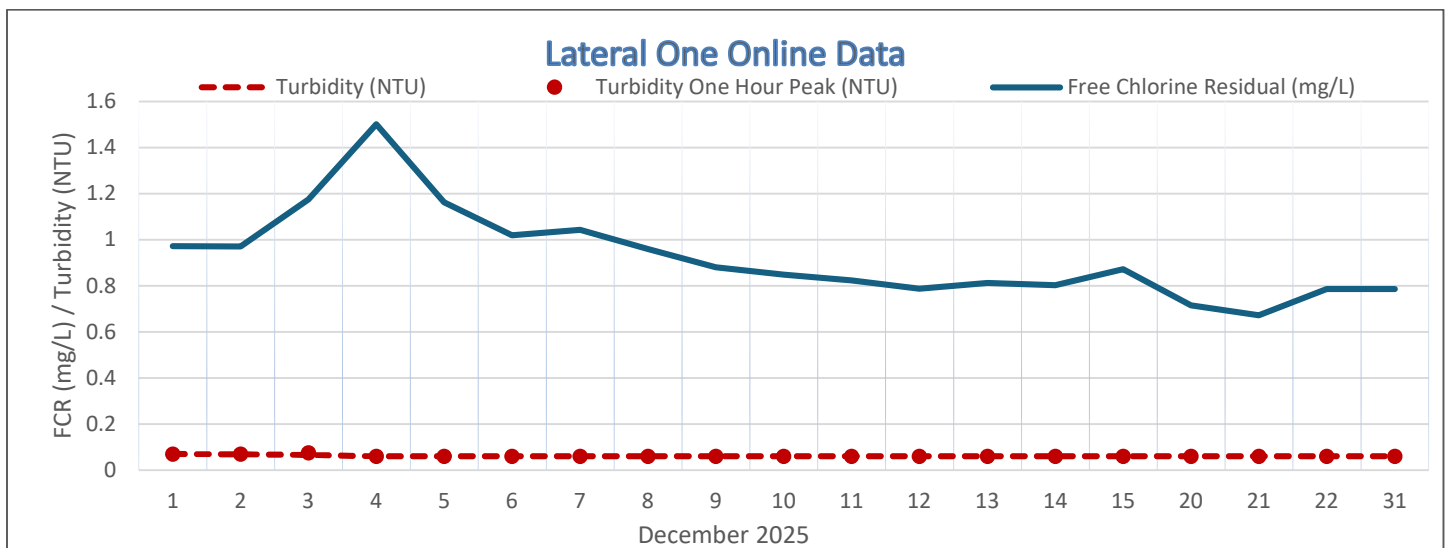
- **PS** = Pump Station
- **SS** = Sample Station
- **Res** = Reservoir
- **WQS** = Water Quality Station

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 (°C)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
December 2025							
1	7.19	0.07	0.07	3.72	0.87	1.04	0.97
2	7.17	0.07	0.07	3.86	0.87	1.04	0.97
3	7.38	0.07	0.08	5.67	0.70	1.77	1.17
4	7.34	0.06	0.06	4.42	1.20	2.13	1.50
5	7.36	0.06	0.06	4.69	0.57	1.71	1.16
6	7.37	0.06	0.06	4.37	0.76	1.84	1.02
7	7.35	0.06	0.06	4.42	0.78	1.64	1.04
8	7.27	0.06	0.06	4.63	0.81	1.35	0.96
9	7.33	0.06	0.06	4.83	0.74	1.65	0.88
10	7.35	0.06	0.06	4.99	0.68	1.21	0.85
11	7.30	0.06	0.06	5.27	0.67	1.49	0.82
12	7.33	0.06	0.06	5.64	0.63	1.63	0.79
13	7.33	0.06	0.06	5.96	0.61	1.67	0.81
14	7.30	0.06	0.06	6.22	0.52	1.14	0.80
15	7.28	0.06	0.06	6.34	0.60	1.36	0.87
20	7.37	0.06	0.06	5.73	0.49	0.95	0.71
21	7.42	0.06	0.06	5.23	0.00	1.44	0.67
22	7.34	0.06	0.06	5.51	0.30	1.00	0.79
31	7.29	0.06	0.06	3.72	0.55	0.90	0.79
Average	7.32	0.06		5.01	0.65	1.42	0.93
Min	7.17	0.06		3.72	0.00	0.90	0.67
Max	7.42	0.07	0.08	6.34	1.20	2.13	1.50

December 16-19 & 23-30, 2025 – Online analyzer was left in ‘Maintenance Mode’ and therefore the online data was flatlined and could not be trended



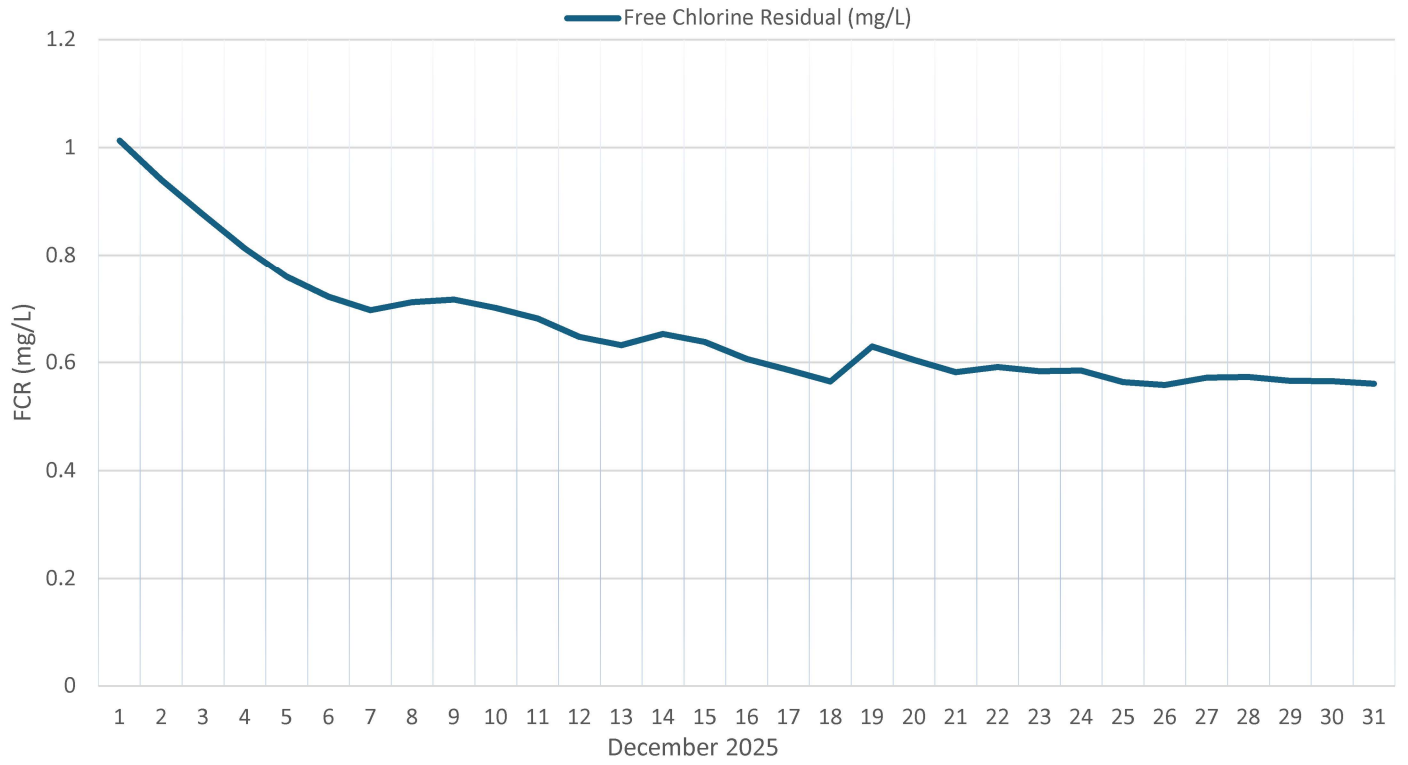
Lateral One PS Water Quality						
Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
01-Dec-25	0.22	0.06	3.5	0.93	1.05	7.38
02-Dec-25	0.12	0.07	3.5	0.89	0.99	7.11
09-Dec-25	0.21	0.10	6.5	0.82	0.88	7.75
16-Dec-25	0.10	0.08	8.7	0.70	0.74	7.86
23-Dec-25	0.11	0.08	3.3	0.89	0.97	7.37
30-Dec-25	0.17	0.14	3.2	0.86	0.80	7.49
# of Samples	6	6	6	6	6	6
Average	0.16	0.09	4.8	0.85	0.91	7.49
Range	0.10-0.22	0.06-0.14	3.2-8.7	0.70-0.93	0.74-1.05	7.11-7.86

2025 Lateral One PS Water Quality Overall Stats						
Stat	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
Total # of Samples	74	71	74	74	71	66
Average	0.16	0.11	8.3	0.79	0.75	7.60
Range	0.05-0.96	0.05-0.60	1.2-22.3	0.46-1.05	0.08-1.05	6.93-8.38

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)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
December 2025							
1	2.16	5.05	7.52	4.56	0.87	1.49	1.01
2	2.23	5.04	7.50	4.26	0.84	1.66	0.94
3	1.81	4.36	7.50	4.21	0.83	0.93	0.88
4	1.89	4.36	7.50	4.15	0.75	1.33	0.81
5	1.99	4.36	7.49	4.09	0.72	1.12	0.76
6	2.03	4.37	7.50	4.03	0.67	1.27	0.72
7	2.06	4.36	7.49	3.98	0.63	0.85	0.70
8	1.95	4.34	7.48	4.02	0.62	1.20	0.71
9	1.86	4.35	7.48	4.13	0.64	0.97	0.72
10	1.73	4.36	7.48	4.25	0.62	1.29	0.70
11	2.01	4.12	7.48	4.42	0.58	1.35	0.68
12	1.86	4.12	7.48	4.59	0.55	0.99	0.65
13	1.66	4.10	7.49	4.72	0.54	1.35	0.63
14	2.08	4.11	7.49	4.86	0.52	1.40	0.65
15	1.90	4.12	7.47	4.99	0.50	1.21	0.64
16	1.78	4.39	7.49	5.16	0.49	1.38	0.61
17	1.83	4.46	7.48	5.21	0.47	1.19	0.59
18	1.73	4.38	7.51	5.18	0.45	1.54	0.57
19	2.00	4.51	7.54	4.99	0.45	1.99	0.63
20	1.74	4.46	7.55	4.79	0.47	1.37	0.60
21	1.88	4.44	7.56	4.59	0.44	0.93	0.58
22	1.89	4.47	7.57	4.54	0.43	0.96	0.59
23	1.89	5.06	7.57	4.52	0.43	0.99	0.58
24	1.92	5.06	7.59	4.42	0.43	0.99	0.58
25	1.88	5.05	7.60	4.33	0.44	0.92	0.56
26	1.88	5.04	7.61	4.28	0.44	0.89	0.56
27	1.92	5.05	7.62	4.13	0.43	2.11	0.57
28	1.96	5.06	7.63	3.80	0.44	1.83	0.57
29	1.97	5.05	7.61	3.48	0.44	1.77	0.57
30	1.89	5.05	7.61	3.27	0.43	0.87	0.57
31	1.71	4.35	7.61	3.22	0.42	0.95	0.56
Total	57						
Average	1.91	4.56	7.53	4.36	0.55	1.26	0.66
Min	1.66	4.10	7.47	3.22	0.42	0.85	0.56
Max	2.23	5.06	7.63	5.21	0.87	2.11	1.01

Glenrosa Reservoir Online Data

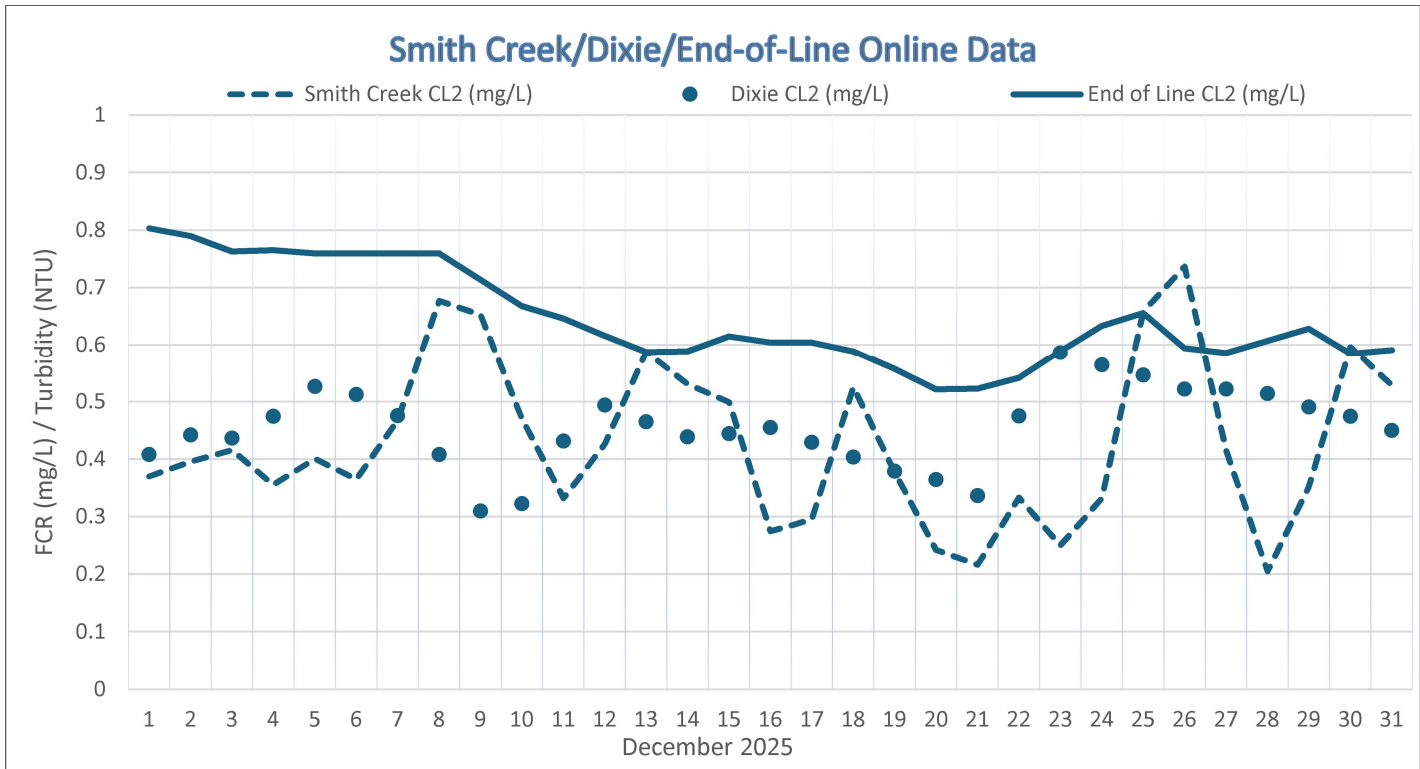


Smith Creek PS, Dixie Reservoir & End-of-Line WQS

Date	Smith Creek Reservoir FCR		
	Min (mg/L)	Max (mg/L)	Avg (mg/L)
December 2025			
1	0.00		0.37
2	0.37	0.42	0.40
3	0.13	0.66	0.42
4	0.32	0.39	0.36
5	0.30	0.48	0.40
6	0.33	0.40	0.37
7	0.30	0.72	0.47
8	0.65	0.72	0.68
9	0.59	0.68	0.65
10	0.36	0.61	0.47
11	0.29	0.37	0.33
12	0.26	0.75	0.43
13	0.51	0.64	0.59
14	0.51	0.58	0.53
15	0.30	0.92	0.50
16	0.23	0.32	0.27
17	0.21	0.57	0.30
18	0.46	0.57	0.53
19	0.27	0.46	0.38
20	0.20	0.28	0.24
21	0.18	0.36	0.22
22	0.26	0.50	0.33
23	0.21	0.28	0.25
24	0.19	0.68	0.33
25	0.62	0.70	0.66
26	0.62	0.90	0.74
27	0.23	0.69	0.42
28	0.17	0.24	0.21
29	0.15	0.70	0.35
30	0.54	0.65	0.60
31	0.50	0.55	0.53
Average	0.33	0.56	0.43
Min	0.00	0.24	0.21
Max	0.65	0.92	0.74

Dixie Reservoir FCR			
Min (mg/L)	Max (mg/L)	Avg (mg/L)	
0.23	0.48	0.41	
0.40	0.48	0.44	
0.30	0.73	0.44	
0.37	0.59	0.48	
0.41	0.61	0.53	
0.41	0.61	0.51	
0.37	0.55	0.48	
0.29	0.50	0.41	
0.29	0.33	0.31	
0.29	0.36	0.32	
0.32	0.55	0.43	
0.47	0.53	0.49	
0.45	0.50	0.47	
0.41	0.46	0.44	
0.40	0.48	0.44	
0.45	0.48	0.46	
0.41	0.46	0.43	
0.38	0.42	0.40	
0.37	0.39	0.38	
0.34	0.39	0.36	
0.32	0.35	0.34	
0.32	0.61	0.48	
0.57	0.61	0.59	
0.54	0.58	0.56	
0.52	0.57	0.55	
0.51	0.53	0.52	
0.48	0.55	0.52	
0.50	0.53	0.51	
0.48	0.50	0.49	
0.45	0.50	0.47	
0.43	0.46	0.45	
Average	0.40	0.51	0.46
Min	0.23	0.33	0.31
Max	0.57	0.73	0.59

End-of-Line FCR			
Min (mg/L)	Max (mg/L)	Avg (mg/L)	
0.79	0.82	0.80	
0.74	0.82	0.79	
0.75	0.84	0.76	
0.76	0.78	0.77	
0.76	0.76	0.76	
0.76	0.76	0.76	
0.76	0.76	0.76	
0.76	0.76	0.76	
0.63	0.80	0.71	
0.65	0.68	0.67	
0.61	0.68	0.65	
0.60	0.65	0.62	
0.57	0.62	0.59	
0.56	0.64	0.59	
0.58	0.68	0.62	
0.58	0.66	0.60	
0.57	0.67	0.60	
0.56	0.63	0.59	
0.52	0.60	0.56	
0.49	0.55	0.52	
0.50	0.54	0.52	
0.52	0.58	0.54	
0.57	0.61	0.59	
0.61	0.66	0.63	
0.62	0.67	0.66	
0.57	0.62	0.59	
0.56	0.60	0.59	
0.59	0.66	0.61	
0.59	0.67	0.63	
0.54	0.67	0.58	
0.56	0.63	0.59	
Average	0.62	0.68	0.65
Min	0.49	0.54	0.52
Max	0.79	0.84	0.80



End-of-Line WQS Water Quality					
Date	Turbidity	Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
01-Dec-25	0.15	9.0	0.66	0.8	7.44
02-Dec-25	0.09	9.4	0.74	0.78	7.84
09-Dec-25	0.09	9.8	0.6	0.76	7.82
16-Dec-25	0.13	8.8	0.63	0.6	7.83
23-Dec-25	0.14	8.4	0.56	0.59	7.55
30-Dec-25	0.14	7.3	0.64	0.57	7.55
# of Samples	6	6	6	6	6
Average	0.12	8.8	0.64	0.68	7.67
Range	0.09-0.15	7.3-9.8	0.56-0.74	0.57-0.80	7.44-7.84

2025 End-of-Line WQS Water Quality Overall Stats					
Stats	Turbidity	Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
Total # of Samples	53	53	53	51	47
Average	0.14	10.1	0.58	0.58	7.55
Range	0.06-1.36	4.6-20.1	0.34-0.82	0.34-0.80	6.83-7.98

WQ Field Data

Mclver SS

Mclver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
01-Dec-25	0.10	7.4	0.67	7.50
02-Dec-25	0.09	7.4	0.85	7.78
09-Dec-25	0.19	8.1	0.62	7.74
16-Dec-25	0.09	6.9	0.66	7.88
23-Dec-25	0.16	6.5	0.50	7.95
30-Dec-25	0.10	5.6	0.41	7.45
# of Samples	6	6	6	6
Average	0.12	7.0	0.62	7.72
Range	0.09-0.19	5.6-8.1	0.41-0.85	7.45-7.95

2025 Mclver SS Water Quality Overall Stats				
Stats	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
Total # of Samples	53	53	53	47
Average	0.12	8.4	0.60	7.57
Range	0.07-0.24	2.6-19.1	0.29-0.90	6.87-8.01

Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
01-Dec-25	0.08	10.0	0.46	7.42
02-Dec-25	0.09	11.4	0.51	7.86
09-Dec-25	0.10	11.5	0.44	7.80
16-Dec-25	0.27	9.6	0.44	7.86
23-Dec-25	0.12	9.8	0.33	7.69
30-Dec-25	0.10	9.4	0.53	7.49
# of Samples	6	6	6	6
Average	0.13	10.3	0.45	7.69
Range	0.08-0.27	9.4-11.5	0.33-0.53	7.42-7.86

2025 Bulk Water Station Water Quality Overall Stats				
Stats	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
Total # of Samples	41	41	41	40
Average	0.23	14.0	0.53	7.58
Range	0.08-0.82	6.5-19.9	0.31-0.77	7.01-7.86

2025 Disinfection Byproduct Summary

- Additional disinfection by-products were taken two weeks after the chlorine system at the Power's Creek treatment plant transitioned from Chlorine gas to liquid sodium hypochlorite.

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

Date	Lateral One PS	End-of-Line	Mclver SS	Bulk Water Stn
25-Feb-25	0.0382	0.0402	0.0766	
27-May-25	0.0267	0.0412	0.0450	
19-Aug-25	0.0376	0.0365	0.0318	0.0574
25-Nov-25	0.0400	0.0475	0.0420	0.0541
09-Dec-25	0.0227	0.0293	0.0308	0.0307
Average	0.0330	0.0389	0.0452	0.0474

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

Date	Lateral One PS	End-of-Line	Mclver SS	Bulk Water Stn
25-Feb-25	0.0238	0.0300	0.0351	
27-May-25	0.0218	0.0308	0.0383	
19-Aug-25	0.0205	0.0312	0.0318	0.0277
25-Nov-25	0.0280	0.0359	0.0325	0.0376
09-Dec-25	0.0221	0.0342	0.0341	0.0349
Average	0.0232	0.0324	0.0344	0.0334