CITY OF WEST KELOWNA

Monthly Water Quality Report

Powers Creek Water Service Area

March 2026

WATER SUPPLY AND TREATMENT

CITY OF
WEST
KELOWNA

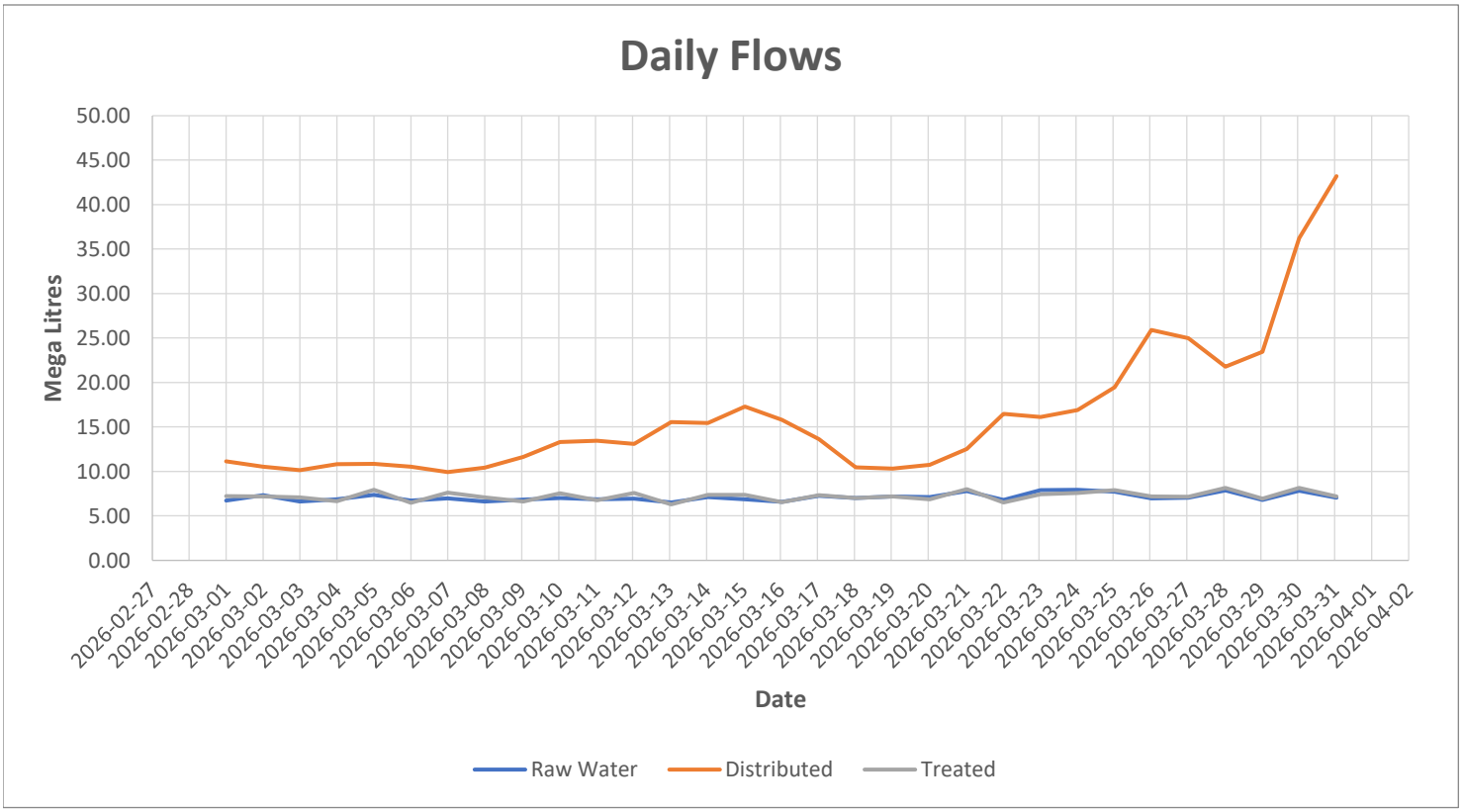
Powers Creek
Water Treatment Plant Monthly
Water Quality Summary

2026-04-07

March, 2026

Flow Demand:

	Total for Month
Raw Processed Water:	219.98 ML
Treated Water :	223.64 ML
Distributed Water :	501.82 ML
Backwash Water :	10.62 ML



Notes:

March 30th, dramatic increase in flows when Agricultural water turned on for the season.

Raw Water Specifications:

	Raw Turbidity (NTU)			Raw pH		
Date	Min	Max	Average	Min	Max	Average
2026-03-01	0.96	2.92	1.35	7.72	7.84	7.78
2026-03-02	1.00	3.41	1.38	7.73	7.84	7.77
2026-03-03	0.98	3.34	1.47	7.72	7.82	7.77
2026-03-04	1.30	8.14	1.69	7.72	7.83	7.78
2026-03-05	1.09	3.77	1.52	7.45	7.83	7.64
2026-03-06	1.15	7.83	1.82	7.73	7.88	7.81
2026-03-07	1.15	8.20	2.44	7.66	7.80	7.73
2026-03-08	5.49	14.52	8.63	7.70	7.82	7.76
2026-03-09	1.92	8.23	3.96	7.61	7.76	7.68
2026-03-10	1.36	3.02	1.74	7.60	7.77	7.69
2026-03-11	1.38	5.85	1.99	7.54	7.83	7.64
2026-03-12	1.15	5.19	1.73	7.59	7.86	7.70
2026-03-13	1.03	4.62	1.55	7.60	7.79	7.69
2026-03-14	0.95	2.99	1.24	7.60	7.75	7.67
2026-03-15	1.13	3.70	1.83	7.63	7.76	7.69
2026-03-16	0.48	2.48	1.19	7.67	7.81	7.73
2026-03-17	0.73	3.12	1.20	7.69	7.89	7.77
2026-03-18	1.38	8.13	2.67	7.61	7.88	7.73
2026-03-19	7.30	20.00	12.30	7.17	7.67	7.38
2026-03-20	9.72	20.00	16.59	7.12	7.88	7.53
2026-03-21	3.39	20.00	10.17	7.55	7.99	7.69
2026-03-22	3.41	6.84	4.34	7.43	7.84	7.56
2026-03-23	4.69	15.40	7.67	7.57	7.91	7.68
2026-03-24	5.65	20.00	12.20	7.71	8.11	7.97
2026-03-25	3.51	19.84	6.68	7.86	8.02	7.94
2026-03-26	3.12	6.09	3.79	7.78	7.98	7.89
2026-03-27	2.53	6.20	3.52	7.84	8.17	7.97
2026-03-28	2.86	7.72	3.50	7.97	8.09	8.05
2026-03-29	2.14	6.37	2.84	7.58	7.99	7.81
2026-03-30	2.51	7.98	3.17	7.56	8.06	7.79
2026-03-31	1.26	5.35	2.02	7.89	8.06	7.96

Notes:

Raw Water Specifications (Continued):

	Raw Temp (˚C)			Raw DOC (mg/L)		
Date	Min	Max	Average	Min	Max	Average
2026-03-01	2.64	3.93	3.04	6.38	6.70	6.54
2026-03-02	2.03	4.35	2.42	6.35	40.02	6.54
2026-03-03	2.24	3.05	2.49	6.38	6.53	6.45
2026-03-04	2.91	3.66	3.20	6.28	6.52	6.38
2026-03-05	2.84	3.74	3.28	6.42	6.65	6.52
2026-03-06	3.10	4.11	3.63	6.62	6.81	6.69
2026-03-07	4.02	5.00	4.31	6.72	7.33	6.92
2026-03-08	3.25	5.18	4.53	7.41	10.97	8.92
2026-03-09	2.11	5.04	2.79	???	12.41	11.41
2026-03-10	1.53	9.96	3.67	12.11	13.18	12.38
2026-03-11	1.66	12.97	4.73	11.67	12.59	12.15
2026-03-12	2.24	4.52	3.05	11.26	11.76	11.48
2026-03-13	2.35	4.37	3.08	10.68	11.30	11.05
2026-03-14	2.16	3.01	2.52	10.51	10.87	10.70
2026-03-15	1.49	2.32	1.69	10.44	11.28	10.76
2026-03-16	1.30	3.07	2.01	???	???	12.59
2026-03-17	2.79	5.32	3.71	12.23	12.54	12.33
2026-03-18	4.18	15.54	7.18	12.49	15.79	13.67
2026-03-19	4.38	16.18	8.06	15.03	33.20	21.35
2026-03-20	4.08	15.85	7.74	28.14	100.15	40.00
2026-03-21	4.19	16.22	15.06	15.88	100.16	38.18
2026-03-22	2.37	16.00	8.15	1.78	100.17	35.08
2026-03-23	2.11	13.75	4.15	28.39	33.20	30.78
2026-03-24	3.25	8.03	3.98	26.30	31.86	28.30
2026-03-25	2.70	4.69	3.66	25.70	29.51	26.56
2026-03-26	1.85	4.20	3.02	24.70	25.80	25.20
2026-03-27	2.17	5.06	3.37	23.31	24.71	23.98
2026-03-28	3.61	15.14	8.09	22.65	23.73	23.11
2026-03-29	2.91	9.33	4.72	22.15	22.78	22.40
2026-03-30	1.59	7.93	3.29	21.25	22.39	21.79
2026-03-31	1.26	3.98	2.50	22.01	23.17	22.65

Notes:

March 9th - DOC cleaned
March 16th - DOC calibrated

Raw Water Specifications (Continued):

	Raw Cond (µS/cm)			Streaming Current		
Date	Min	Max	Average	Min	Max	Average
2026-03-01	93.23	95.80	94.06	-4.00	10.16	3.35
2026-03-02	28.40	96.92	95.05	-7.20	25.35	2.77
2026-03-03	93.62	97.27	94.92	-8.05	19.44	4.11
2026-03-04	55.54	95.62	93.48	-84.42	18.55	2.70
2026-03-05	90.95	93.81	92.54	-1.83	18.65	6.49
2026-03-06	90.79	95.26	92.73	-11.30	21.27	2.10
2026-03-07	88.23	92.71	90.69	-15.42	12.36	-1.19
2026-03-08	79.74	88.87	85.05	-17.33	13.64	-0.41
2026-03-09	70.98	80.76	78.89	1.03	30.52	11.73
2026-03-10	78.28	81.80	79.88	-20.93	26.59	3.56
2026-03-11	69.27	83.97	80.55	-16.06	33.22	2.52
2026-03-12	77.63	79.93	78.95	-86.49	119.05	7.76
2026-03-13	80.30	82.48	81.08	-5.26	29.28	5.22
2026-03-14	80.96	82.92	81.97	-9.34	31.17	8.82
2026-03-15	81.29	87.66	84.08	1.94	36.01	13.70
2026-03-16	75.04	85.80	83.35	-3.95	45.95	13.20
2026-03-17	81.87	84.19	82.65	-7.20	29.31	6.12
2026-03-18	75.63	80.61	77.94	-5.22	29.19	6.89
2026-03-19	-0.17	72.72	67.18	-114.10	35.24	4.85
2026-03-20	2.95	65.25	60.83	-83.32	92.46	-12.85
2026-03-21	56.33	59.15	57.75	-67.85	14.48	-37.39
2026-03-22	48.96	65.14	61.35	???	48.00	-36.18
2026-03-23	64.60	67.71	66.38	-52.73	25.40	-37.36
2026-03-24	67.62	68.58	68.06	-51.18	48.05	-9.86
2026-03-25	68.06	69.73	68.77	-35.59	33.93	-7.99
2026-03-26	-0.20	71.19	70.26	-26.03	21.46	-5.09
2026-03-27	70.95	72.03	71.32	-24.10	19.44	-5.63
2026-03-28	71.94	72.50	72.13	-24.03	20.60	-7.61
2026-03-29	72.01	73.63	72.79	-45.92	12.38	-7.49
2026-03-30	-0.30	75.85	73.89	???	25.37	-10.50
2026-03-31	72.65	75.20	73.74	-92.65	11.52	-14.24

Notes:

March 20th - cleaned streaming current
March 30th - flushed streaming current

Raw Water Specifications (Continued):

	Coagulated pH			Coagulated Temp (˚C)		
Date	Min	Max	Average	Min	Max	Average
2026-03-01	7.00	7.02	7.01	2.39	2.74	2.54
2026-03-02	7.01	7.09	7.05	2.19	5.16	2.39
2026-03-03	7.03	7.07	7.05	2.54	3.02	2.72
2026-03-04	7.01	7.05	7.03	3.14	3.62	3.32
2026-03-05	7.00	7.02	7.01	3.30	3.69	3.50
2026-03-06	6.97	7.03	7.01	3.39	4.15	3.70
2026-03-07	7.00	7.04	7.02	4.45	5.24	4.78
2026-03-08	6.93	7.05	6.97	4.25	5.57	5.03
2026-03-09	6.79	6.92	6.85	2.49	5.00	3.14
2026-03-10	6.83	6.97	6.89	2.29	3.10	2.68
2026-03-11	6.83	6.96	6.91	2.74	3.97	3.17
2026-03-12	6.80	6.90	6.86	2.86	5.89	3.85
2026-03-13	6.85	6.91	6.89	2.88	4.50	3.46
2026-03-14	6.86	6.93	6.90	3.13	3.91	3.45
2026-03-15	6.86	6.93	6.90	2.68	3.06	2.84
2026-03-16	6.85	6.93	6.89	1.94	3.50	2.78
2026-03-17	6.90	6.94	6.91	3.35	5.79	4.21
2026-03-18	6.78	6.89	6.83	4.86	6.71	5.69
2026-03-19	6.61	6.78	6.68	4.74	7.21	5.72
2026-03-20	???	6.68	6.54	4.77	16.36	5.78
2026-03-21	6.40	6.46	6.43	9.18	15.83	15.28
2026-03-22	6.47	6.62	6.54	3.02	15.67	9.61
2026-03-23	6.51	6.62	6.59	2.59	5.02	4.12
2026-03-24	6.47	6.63	6.55	3.77	4.72	4.28
2026-03-25	6.48	6.58	6.53	3.25	4.98	4.10
2026-03-26	6.53	6.60	6.56	2.54	4.67	3.54
2026-03-27	6.55	6.64	6.60	2.56	5.08	3.70
2026-03-28	6.61	6.64	6.63	3.76	5.38	4.41
2026-03-29	6.63	6.65	6.64	3.61	5.20	4.41
2026-03-30	6.58	6.66	6.61	2.08	5.53	3.26
2026-03-31	6.66	6.76	6.72	1.67	4.07	2.65

Notes:

March 20th - cleaned all pH probes

Train 1 Filter Turbidity (NTU):

	Filter 1			Filter 2			Filter 3		
Date	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-03-01	0.03	0.04	0.03	0.02	0.03	0.03	0.01	0.01	0.01
2026-03-02	0.02	0.04	0.03	0.03	0.03	0.03	0.01	0.03	0.01
2026-03-03	0.02	0.02	0.02	0.03	0.04	0.04	0.01	0.03	0.01
2026-03-04	0.02	0.05	0.03	0.04	0.05	0.04	0.01	0.03	0.01
2026-03-05	0.03	0.07	0.03	0.04	0.04	0.04	0.01	0.02	0.01
2026-03-06	0.03	0.04	0.03	0.02	0.05	0.03	0.01	0.01	0.01
2026-03-07	0.03	0.04	0.03	0.02	0.03	0.02	0.01	0.01	0.01
2026-03-08	0.03	0.04	0.03	0.02	0.04	0.02	0.01	0.01	0.01
2026-03-09	0.02	0.04	0.03	0.02	0.10	0.02	0.01	0.02	0.01
2026-03-10	0.02	0.05	0.02	0.02	0.03	0.02	0.02	0.02	0.02
2026-03-11	0.02	0.07	0.03	0.02	0.04	0.02	0.02	0.02	0.02
2026-03-12	0.03	0.04	0.04	0.02	0.14	0.03	0.02	0.02	0.02
2026-03-13	0.02	0.04	0.03	0.02	0.29	0.04	0.02	0.02	0.02
2026-03-14	0.02	0.25	0.02	0.03	0.04	0.04	0.02	0.05	0.02
2026-03-15	0.02	0.03	0.03	0.03	0.04	0.04	0.01	0.02	0.01
2026-03-16	0.03	0.03	0.03	0.02	0.05	0.03	0.01	0.05	0.01
2026-03-17	0.02	0.04	0.03	0.01	0.03	0.02	0.01	0.25	0.02
2026-03-18	0.01	0.02	0.02	0.01	0.15	0.02	0.01	0.02	0.02
2026-03-19	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01
2026-03-20	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.03	0.02
2026-03-21	0.01	0.02	0.02	0.02	0.04	0.03	0.01	0.05	0.02
2026-03-22	0.02	0.02	0.02	0.02	1.17	0.56	0.01	0.06	0.02
2026-03-23	0.02	0.02	0.02	0.02	1.92	0.47	0.01	0.07	0.01
2026-03-24	0.02	0.05	0.03	0.02	0.03	0.03	0.01	0.05	0.02
2026-03-25	0.02	0.03	0.02	0.02	0.04	0.03	0.02	0.03	0.02
2026-03-26	0.02	0.04	0.03	0.02	0.05	0.03	0.02	0.02	0.02
2026-03-27	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.03	0.03
2026-03-28	0.04	0.04	0.04	0.02	0.13	0.03	0.01	0.05	0.02
2026-03-29	0.04	0.05	0.05	0.02	0.02	0.02	0.01	0.02	0.01
2026-03-30	0.04	0.07	0.05	0.02	0.11	0.03	0.01	0.01	0.01
2026-03-31	0.05	0.05	0.05	0.02	0.03	0.02	0.01	0.02	0.01

Notes:

March 23rd - Filter 2 offline during Turbidity Spike.
March 24th - Filter 2 offline during turbidity Spike.

Train 2 Filter Turbidity (NTU)

	Filter 4			Filter 5			Filter 6		
Date	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-03-01	0.04	0.05	0.04	0.04	0.04	0.04	0.02	0.02	0.02
2026-03-02	0.01	0.06	0.03	0.03	0.06	0.03	0.01	0.05	0.02
2026-03-03	0.02	0.02	0.02	0.03	0.03	0.04	0.01	0.02	0.02
2026-03-04	0.02	0.03	0.02	0.04	0.05	0.05	0.02	0.03	0.02
2026-03-05	0.02	0.03	0.02	0.04	0.04	0.04	0.02	0.02	0.02
2026-03-06	0.02	0.03	0.02	0.03	0.04	0.03	0.02	0.05	0.02
2026-03-07	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.04	0.02
2026-03-08	0.02	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.02
2026-03-09	0.02	0.06	0.03	0.03	0.06	0.04	0.02	0.03	0.02
2026-03-10	0.02	0.05	0.02	0.04	0.04	0.04	0.02	0.03	0.03
2026-03-11	0.02	0.04	0.03	0.03	0.06	0.04	0.03	0.03	0.03
2026-03-12	0.02	0.04	0.03	0.03	0.13	0.05	0.03	0.04	0.03
2026-03-13	0.02	0.05	0.03	0.03	0.15	0.05	0.03	0.04	0.03
2026-03-14	0.02	0.04	0.02	0.04	0.05	0.05	0.03	0.05	0.03
2026-03-15	0.02	0.05	0.02	0.04	0.04	0.04	0.03	0.05	0.03
2026-03-16	0.02	0.04	0.03	0.05	0.07	0.05	0.02	0.04	0.03
2026-03-17	0.02	0.04	0.03	0.03	0.08	0.04	0.02	0.87	0.02
2026-03-18	0.02	0.03	0.02	0.04	0.06	0.04	0.02	0.03	0.02
2026-03-19	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02
2026-03-20	0.02	0.03	0.03	0.02	0.08	0.03	0.02	0.04	0.03
2026-03-21	0.02	0.03	0.02	0.03	0.04	0.04	0.03	0.04	0.03
2026-03-22	0.03	0.12	0.03	0.04	2.76	0.37	0.03	0.05	0.03
2026-03-23	0.02	0.06	0.03	0.04	1.35	0.67	0.02	0.03	0.02
2026-03-24	0.04	0.05	0.04	0.03	1.26	0.63	0.02	0.02	0.02
2026-03-25	0.04	0.05	0.05	0.03	0.06	0.03	0.02	0.05	0.03
2026-03-26	0.04	0.05	0.05	0.02	0.03	0.02	0.03	0.04	0.03
2026-03-27	0.02	0.06	0.03	0.03	0.06	0.03	0.03	0.06	0.03
2026-03-28	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.04	0.04
2026-03-29	0.02	0.08	0.03	0.04	0.04	0.04	0.04	0.08	0.05
2026-03-30	0.02	0.04	0.02	0.04	0.05	0.05	0.05	0.07	0.06
2026-03-31	0.02	0.05	0.03	0.05	0.05	0.05	0.02	0.06	0.04

Notes:

March 17th - Fitler 6 Offline during turbidity spike
March 22nd - Filter 5 Offline during turbidity spike
March 23rd - Filter 5 Offline during turbidity spike
March 24th - Filter 5 Offline during turbidity spike

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2026-03-01	87.29	24.68	99.93
2026-03-02	87.16	24.00	99.79
2026-03-03	99.00	22.23	97.15
2026-03-04	99.41	23.07	97.23
2026-03-05	99.35	24.32	99.93
2026-03-06	78.32	28.55	99.93
2026-03-07	99.93	23.20	99.93
2026-03-08	100.19	22.92	99.93
2026-03-09	100.54	23.18	99.93
2026-03-10	94.92	22.70	99.93
2026-03-11	98.49	20.88	99.93
2026-03-12	101.04	21.20	98.74
2026-03-13	75.84	23.40	77.69
2026-03-14	94.77	21.18	96.77
2026-03-15	94.90	21.48	99.93
2026-03-16	99.87	21.32	99.93
2026-03-17	98.77	20.90	99.93
2026-03-18	98.71	21.12	99.86
2026-03-19	100.23	20.52	98.61
2026-03-20	99.62	20.78	99.93
2026-03-21	99.24	20.12	99.93
2026-03-22	98.11	20.60	99.93
2026-03-23	94.91	20.68	99.93
2026-03-24	94.88	20.60	99.93
2026-03-25	98.37	20.80	99.93
2026-03-26	99.65	21.10	99.93
2026-03-27	99.42	20.90	99.93
2026-03-28	99.66	21.20	99.93
2026-03-29	97.22	99.93	99.93
2026-03-30	99.04	99.93	99.93
2026-03-31	99.15	99.93	99.93

Notes:

March 13th - Plant shutdown resulting in UV shutdown and lower availability percentage

UV Transmittance %:

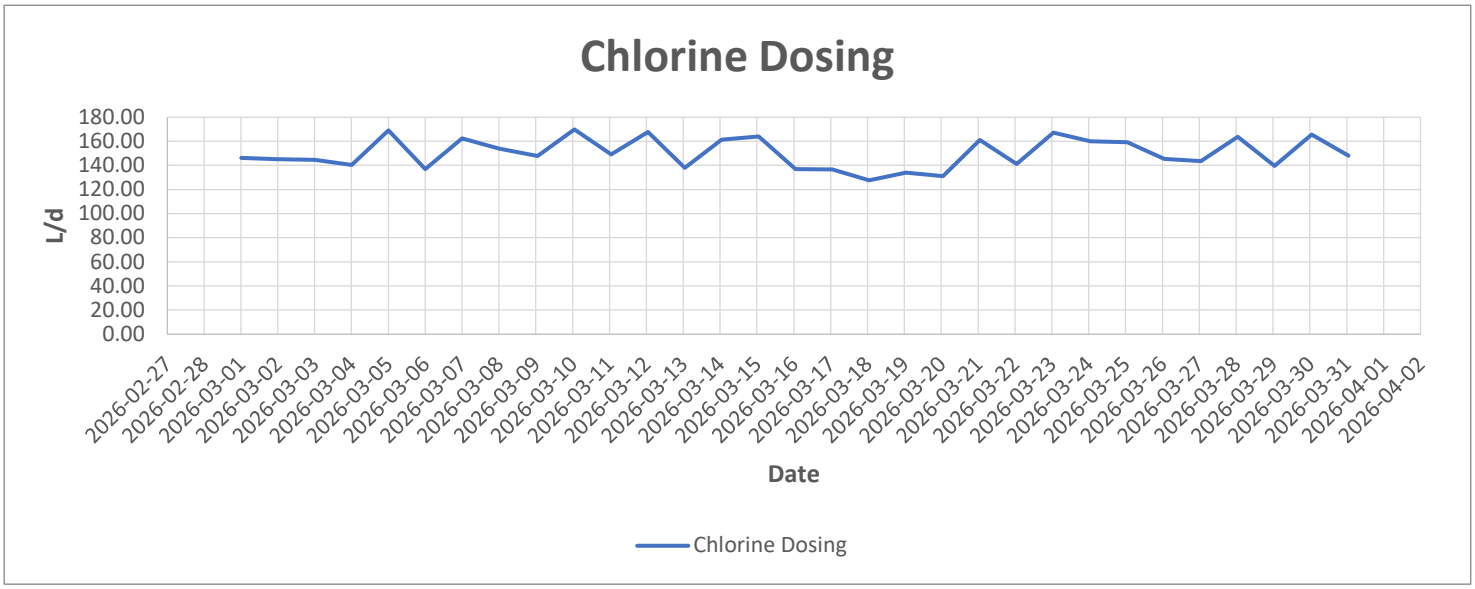
Date	Min	Max	Average
2026-03-01	91.30	91.70	91.53
2026-03-02	91.10	92.30	91.43
2026-03-03	90.80	92.70	91.72
2026-03-04	90.70	92.80	91.87
2026-03-05	89.40	93.70	92.15
2026-03-06	90.60	92.80	91.99
2026-03-07	91.40	92.30	91.83
2026-03-08	91.50	92.30	91.76
2026-03-09	91.20	92.40	91.71
2026-03-10	89.70	92.20	90.99
2026-03-11	89.60	91.30	90.31
2026-03-12	90.10	91.80	90.48
2026-03-13	90.00	90.80	90.37
2026-03-14	89.90	91.10	90.55
2026-03-15	90.10	90.90	90.51
2026-03-16	90.20	91.10	90.70
2026-03-17	90.20	91.20	90.58
2026-03-18	90.40	91.80	90.90
2026-03-19	90.20	92.00	90.98
2026-03-20	86.40	90.70	89.35
2026-03-21	84.20	87.70	85.95
2026-03-22	84.10	87.90	85.84
2026-03-23	85.00	86.80	85.67
2026-03-24	85.70	89.40	87.88
2026-03-25	87.10	90.00	88.39
2026-03-26	87.00	89.30	88.05
2026-03-27	87.20	89.40	88.17
2026-03-28	87.40	88.60	88.32
2026-03-29	88.20	88.60	88.33
2026-03-30	87.40	88.90	88.34
2026-03-31	87.60	88.90	88.02

Notes:

Chemical Demand:

Chlorine Used:

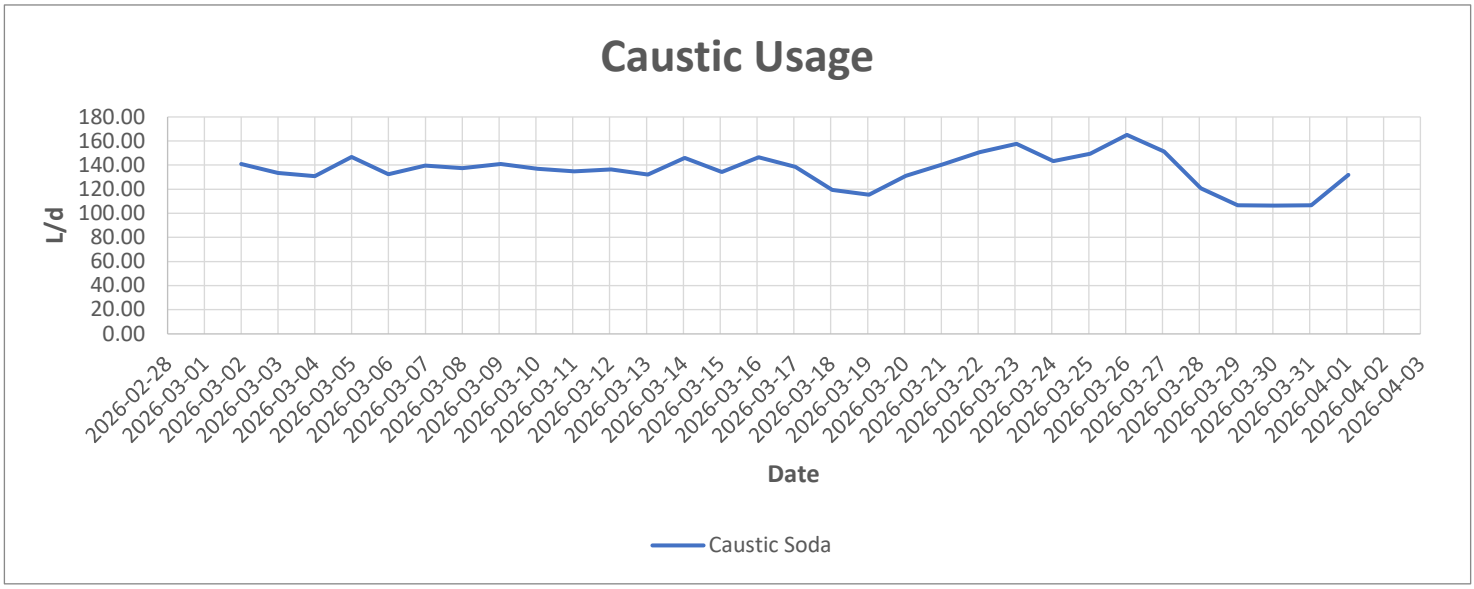
Total for Month
4657.86 L



Notes:

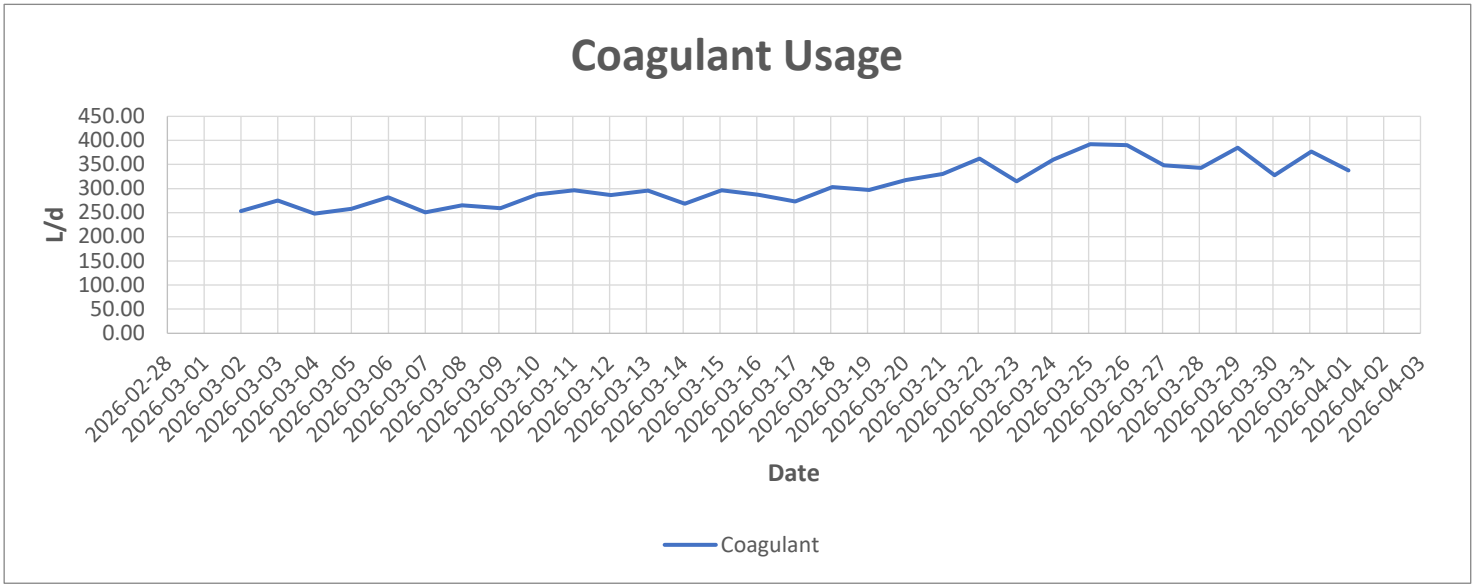
Caustic Soda Used:

Total for Month
4204.72 Litres



Notes:

	Total for Month
Coagulant Used:	9570.38 Litres

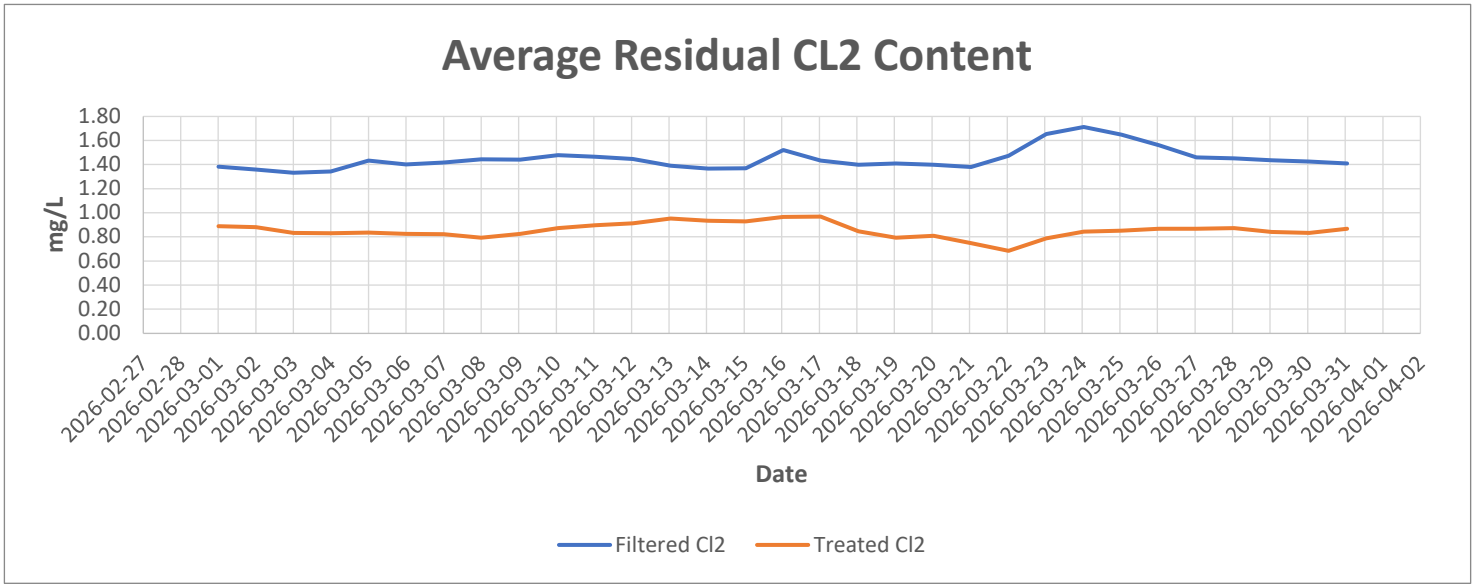


Notes:

	Total for Month
DAF & Residual DAF Neat Polymer	250.67 L
Centrifuge Neat Polymer	407.93 L

Chlorine Dose

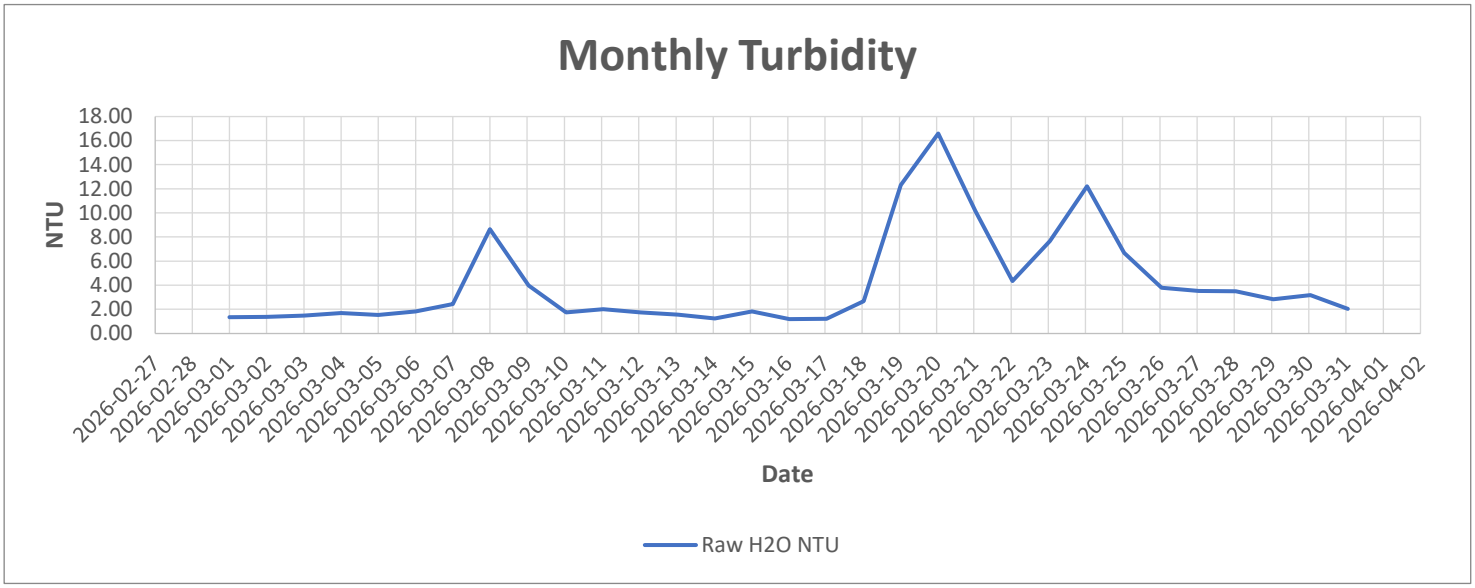
Filtered Water Residual Cl2 Average (mg/L):	1.45 mg/L
Treated Water (Distributed) Cl2 Average (mg/L):	0.85 mg/L



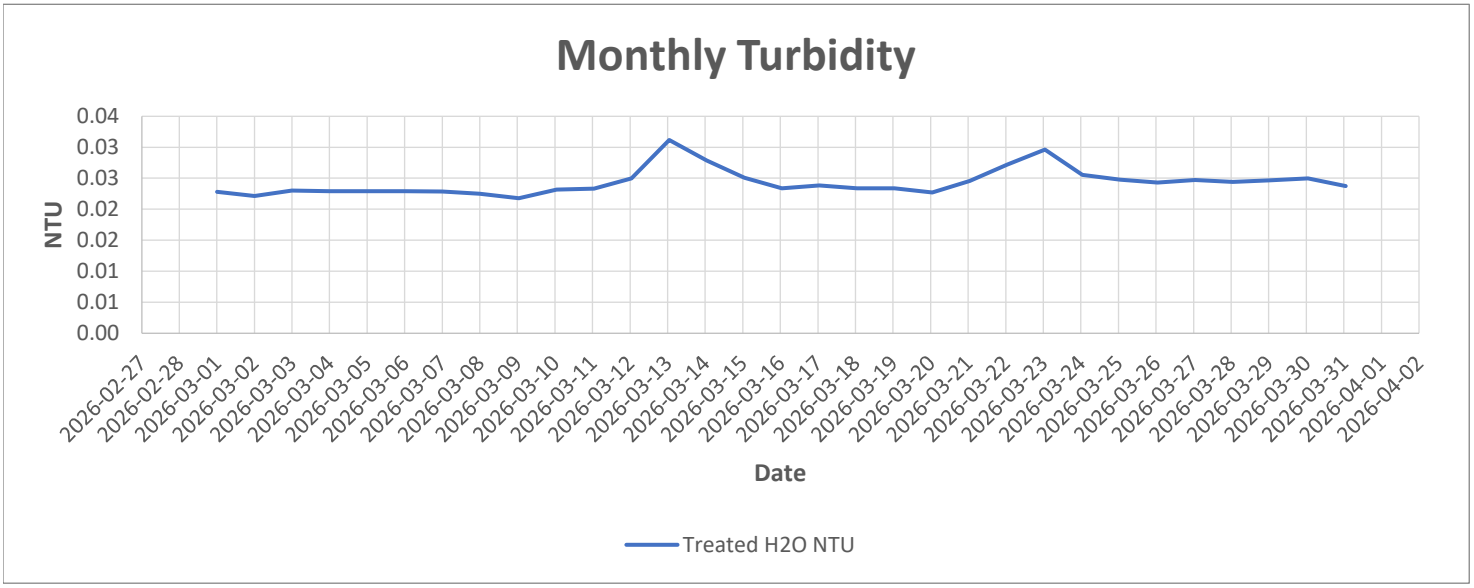
Water Quality Analytics:

Turbidity

Raw Water Monthly Average: 4.14 NTU



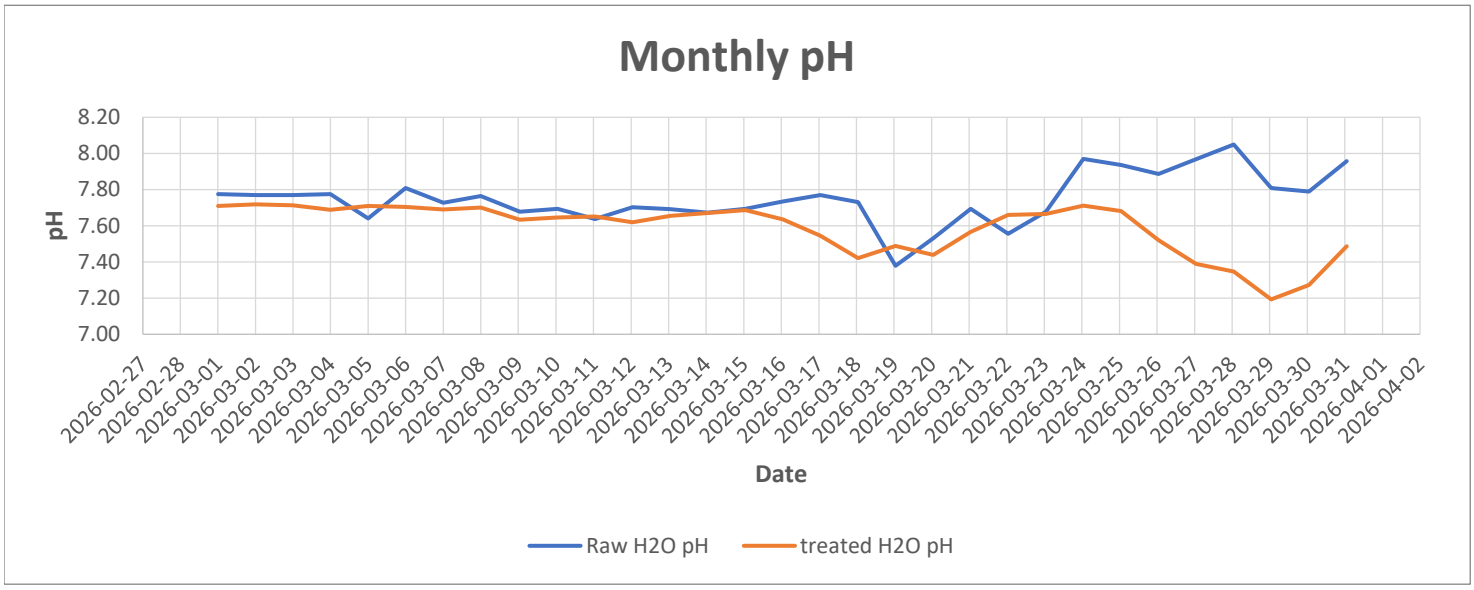
Treated Water Monthly Average: 0.02 NTU



Notes:

pH

Raw Water Monthly Average:	7.75 pH
Treated Water Monthly Average:	7.59 pH



Notes:

Powers Creek WTP Operational Highlights:

Ongoing chemical testing all month, by multiple vendor, for new Chemical RFQ.
Decommisioning of Chlorine Tonner room & injection room - all piping, plumbing, electrical, and mechanical removed.
March 4th - replaced motor & drive on DAF #3 skimmers (Millwright)
March 4th - changed out CTF poly tote
March 5th - flushed Hypo/UV bypass lines
March 9th - cleaned & calibrated all NTU analyzers (WQ Technician)
March 10th - cleaned OptiView on UV
March 10th - flushed hypo trim line
March 11th-16th - drained, rinsed & dried PAC tank #610 due to PAC issues
March 12th - removed flashboards from Dam
March 13th - cleaned and replaced treated water NTU vial (WQ Technician)
March 16th-19th - semi-annual maintenance on DAFs & DAF poly system
March 16th - calibrated DOC analyzer (WQ Technician)
March 18th - install batteries at Lambly Lake to reestablish communications and control
March 18th - Chemical delivery (Caustic) bulk load
March 19th - Chlorine tonners picked up by Brenntag
March 19th - freshette begins, lower elevation snow melt
March 20th - cleaned all pH probes (WQ Technician)
March 20th - cleaned streaming current (WQ Technician)
March 20th - calibrated raw water analyzer & flash mix pH (WQ Technician)
March 23-25th - HVAC contractors in to do bi-annual maintenance
March 23rd - changed Chlorine membranes in both chlorine analyzers
March 27th - Chemical delivery (PAC) bulk load
March 30th - cleaned treated water NTU vial (WQ Technician)
March 30th - cleaned particle counter (WQTechnician)
March 30th - flushed dtreaming current
March 30th - quarterly safety inspection of plant
March 31st - annual testing of cranes, hoists, slings etc (Inter-Mtn Testing)

Power Creek Watershed Operational Highlights:

Lambly
-Mar 18th Installed batteries into the EFOY system. We got it running again for the spring/summer
-Mar 23rd Changed fuel cell
Jackpine
-No checks were completed in March
Paynter
-No checks were completed in March
Horseshoe
-Mar 5th Site checks
-Mar 5th Snow course completed Snow depth average 67.5cm/Water equivalent 161mm
Dobbin
- No checks were completed in March
Tadpole
- No checks were completed in March
Switched over to winter weekly Reservoir site visits, depending on snow levels and transportation requirements needed to access the watershed.

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

March 2026

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 March.
- March Bacteriological Sampling Summary:
    - 22 samples to CARO for analysis
    - 8 samples analyzed in-house at RVWTP
    - All bacteriological sample results were <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- March 4, 2026 – Dixie Reservoir hypo stock strength was changed on PLC to 6.6%.
- March 10, 2026 – a Boil Water Notice was issued for Pressure Zone PZ-548 following an unanticipated high-flow event at a hydrant within the zone, which resulted in temporary water discoloration. The advisory was limited to the affected pressure zone only. Event details explained in Operational System Improvements/Events section.
- 11, 2026 – Dixie Reservoir hypo stock was replenished and the changed on the PLC to 11.2%.
- March 23, 2026 – Lateral One PS FCR online analyser calibration adjustment of 0.44mg/L increase.
- March 24, 2026 – Lateral One PS FCR online analyser calibration adjustment of 0.69mg/L decrease.
- Ongoing flow pace issues continue to affect FCR and pH output from the treatment plant and the associated network online analyser trending continue to reflect the variations throughout the month.

Operational System Improvements/Events

- March 5, 2026 – PRV#3B was isolated due the failure of the strainer board nipple which prevented the remote pressure supply to PRVs. The zone was returned to normal operating pressure via PRV #3A after 3B was isolated.
- March 6, 2026 – PRV#6 pressure was reduced to 42psi and the fire flow setpoint was adjusted to 35psi.
- March 10, 2026 – In consultation with Interior Health Authority (IHA), a Boil Water Notice was issued for Pressure Zone PZ-548 following an unanticipated high-flow event at a hydrant within the zone, which resulted in temporary water discoloration. The advisory was limited to the affected pressure zone only.
    - A Public Service Announcement (PSA) was issued and communicated through multiple channels, including posting on the City's website, distribution via the City's social media platforms, and notification to all City e-subscribe users.
    - To restore water quality, the Utility Department completed system flushing within the pressure zone. Two sets of water quality samples, collected approximately 24 hours apart, were taken from four representative locations on March 10 and March 11, 2026. The samples were analyzed for turbidity, free chlorine residual (FCR), total coliforms, and E. coli. All results met applicable regulatory requirements.
    - Following receipt of satisfactory bacteriological results and in consultation with Interior Health Authority, the Boil Water Notice for Pressure Zone PZ-548 was rescinded on March 13, 2026.

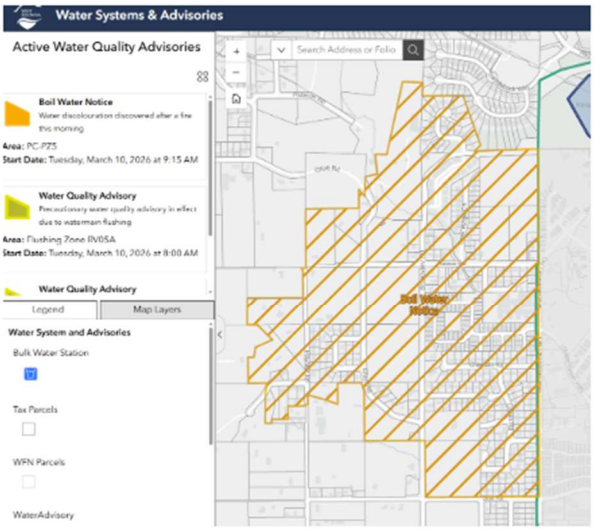
Date	Time	Sample Location	Turbidity (NTU)	FCR (mg/L)	Total Coliforms (CFU/100mL)	E.coli (CFU/100mL)
10-Mar-26	13:20	**Quince Sample Station**	0.26	0.63	<1	<1
10-Mar-26	13:50	**28 Broadview - Hydrant#3267**	0.88	0.62	<1	<1
10-Mar-26	14:00	**Orlin - Hydrant#1309**	0.24	0.63	<1	<1
10-Mar-26	14:17	**Reece/Elliott - Hydrant#773**	0.42	0.63	<1	<1
11-Mar-26	13:04	**Quince Sample Station**	0.14	0.61	<1	<1
11-Mar-26	13:36	**28 Broadview - Hydrant#3267**	0.33	0.64	<1	<1
11-Mar-26	13:54	**Orlin - Hydrant#1309**	0.39	0.73	<1	<1
11-Mar-26	14:13	**Reece/Elliott - Hydrant#773**	0.29	0.83	<1	<1

Tuesday, March 10, 2026

Boil Water Notice issued for parts of Westbank Centre

The City of West Kelowna, in consultation with Interior Health, is issuing an isolated Boil Water Notice until further notice, for a portion of the Powers Creek Water Service Area due to an unanticipated high flow event.

View a map at westkelownacity.ca/waterquality to confirm if your property is in the affected area.



Post-treatment turbidity is present within the distribution system and will limit the effectiveness of chlorine disinfection because bacteria, protozoa, viruses, and other microorganisms can attach themselves to suspended particles in the turbid water. The particles can interfere with disinfection by shielding the microorganisms from the chlorine.

For more information on boil water requirements, prior to consumption, please read Interior Health's Drinking Water for Everyone website resources at drinkingwaterforeveryone.ca; see Boil Water Notice.

Residents can also obtain clean drinking water from the bulk filling station at Shannon Lake and Asquith Roads. Customers can use the station for free during the Boil Water Notice. Bring clean bottles for filling. The tap is located on the Asquith Road-side of the facility.

The City will inform residents, via its e-news service, as soon as it is able to rescind the Boil Water Notice. To receive City news and alerts directly to your email inbox, sign up at westkelownacity.ca/subscribe.

Date of Issue: Friday, March 13, 2026

The City of West Kelowna, in consultation with Interior Health, has rescinded a Boil Water Notice in the Westbank Centre area within the Powers Creek Water Service Area.

Turbidity has decreased and testing confirms water quality is meeting provincial and federal drinking water guidelines.

To remain up to date on Boil Water Notices and Water Quality Advisories or receive other City news, alerts, sign up at westkelownacity.ca/subscribe.

- March 30, 2026 – 3288 McGinnis Rd water service leak repaired by City crews. Only one home experienced water disruption and positive pressure was maintained throughout repair.

WQ Field and SCADA Data

Sampling Location Table:

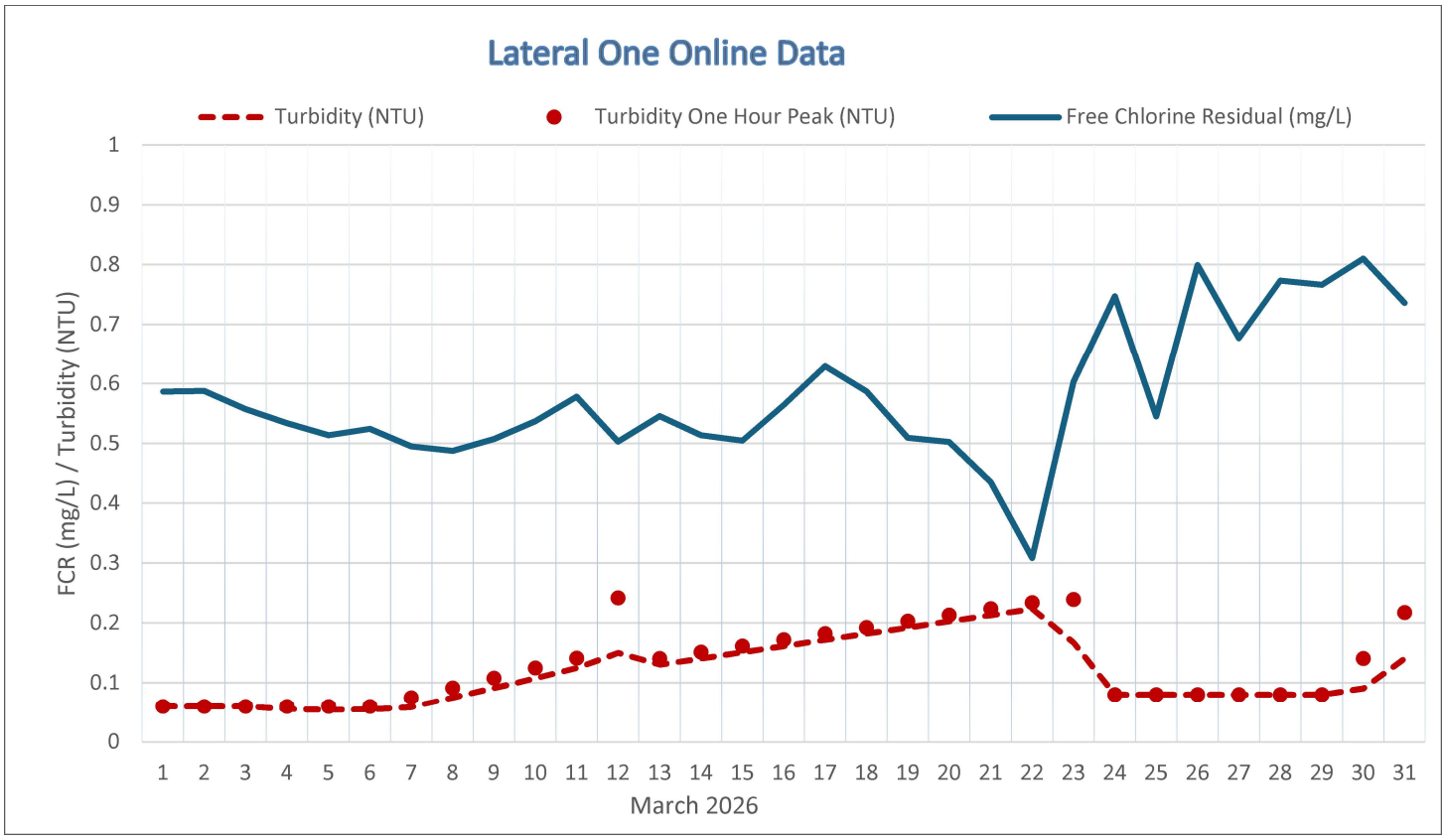
Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
Lateral One PS	3188 Shetler Dr	630	1st Customer water quality check.
Glenrosa PS	3149 Coventry Cres	673	Mid system water quality check. Water quality distributed throughout Glenrosa area.
Glenrosa Res	3313 Glenrosa Rd	673	Mid system water 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 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)
March 2026							
1	7.55	0.06	0.06	4.65	0.21	0.70	0.59
2	7.42	0.06	0.06	4.82	0.48	0.67	0.59
3	7.42	0.06	0.06	5.04	0.48	0.63	0.56
4	7.42	0.06	0.06	4.70	0.35	0.63	0.53
5	7.46	0.05	0.06	4.99	0.29	0.57	0.51
6	7.39	0.05	0.06	5.24	0.45	0.58	0.52
7	7.39	0.06	0.07	5.73	0.19	0.57	0.49
8	7.38	0.08	0.09	6.21	0.41	0.54	0.49
9	7.30	0.09	0.11	6.17	0.00	0.60	0.51
10	7.30	0.11	0.12	5.64	0.00	0.65	0.54
11	7.28	0.12	0.14	4.92	0.27	0.70	0.58
12	7.58	0.15	0.24	7.23	0.00	0.69	0.50
13	7.26	0.13	0.14	5.24	0.00	0.69	0.55
14	7.27	0.14	0.15	5.32	0.00	0.67	0.51
15	7.26	0.15	0.16	5.20	0.00	0.64	0.50
16	7.08	0.16	0.17	5.68	0.21	0.68	0.56
17	7.07	0.17	0.18	5.08	0.05	0.75	0.63
18	6.93	0.18	0.19	6.05	0.50	0.67	0.59
19	7.01	0.19	0.20	7.10	0.41	0.58	0.51
20	6.98	0.20	0.21	7.67	0.39	0.58	0.50
21	7.00	0.21	0.22	7.37	0.25	0.54	0.44
22	7.11	0.22	0.23	6.70	0.00	0.45	0.31
23	7.18	0.17	0.24	6.74	0.00	1.44	0.60
24	7.12	0.08	0.08	6.48	0.00	1.69	0.75
25	7.02	0.08	0.08	6.33	0.00	0.76	0.54
26	6.75	0.08	0.08	6.39	0.00		0.80
27	6.75	0.08	0.08	5.91	0.00	1.12	0.68
28	6.53	0.08	0.08	6.17	0.00	1.44	0.77
29	6.51	0.08	0.08	6.40	0.00	0.98	0.77
30	6.41	0.09	0.14	6.13	0.01	1.16	0.81
31	6.65	0.14	0.22	5.52	0.00	1.21	0.74
Average	7.12	0.12		5.90	0.16	1.73	0.58
Min	6.41	0.05		4.65	0.00	0.45	0.31
Max	7.58	0.22	0.24	7.67	0.50	1.69	0.81

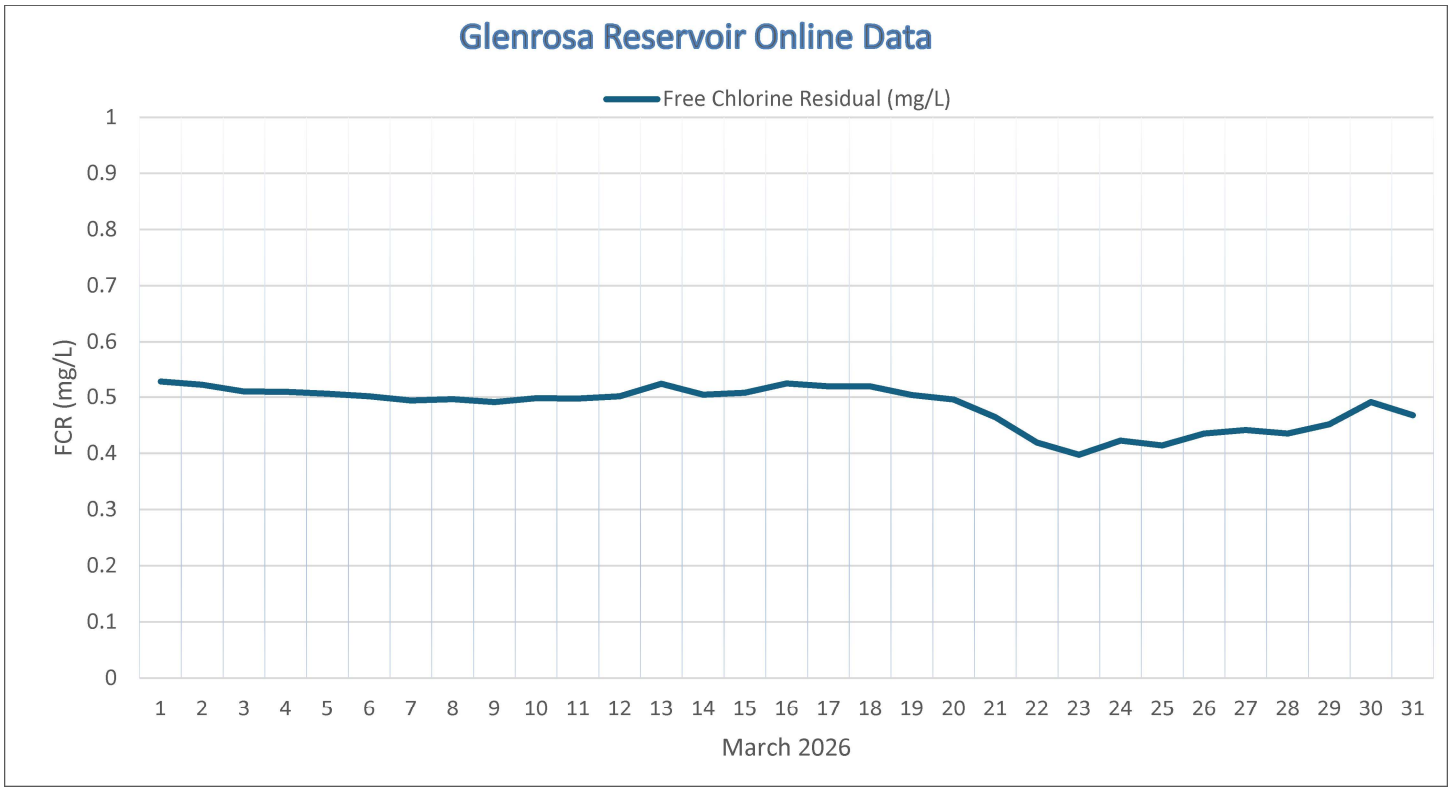


- Note: March 23, 2026 – Lateral One PS FCR online analyser calibration adjustment of 0.44mg/L increase.
- Ongoing flow pacing issues have affected FCR output at the treatment plant and is reflected in the trend for this location and others.

Lateral One PS Water Quality						
Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Mar-26	0.15	0.06	3.1	0.66	0.59	7.35
10-Mar-26	0.18	0.06	4.7	0.82	0.58	7.98
17-Mar-26	0.18	0.41	6.3	0.89	0.74	7.50
24-Mar-26	0.19	0.08	6.7	0.65	0.65	7.59
30-Mar-26	0.18	0.09	5.8	0.73	0.94	7.09
# of Samples	5	5	5	5	5	5
Average	0.18	0.14	5.3	0.75	0.7	7.50
Minimum	0.15	0.06	3.1	0.65	0.58	7.09
Maximum	0.19	0.41	6.7	0.89	0.94	7.98

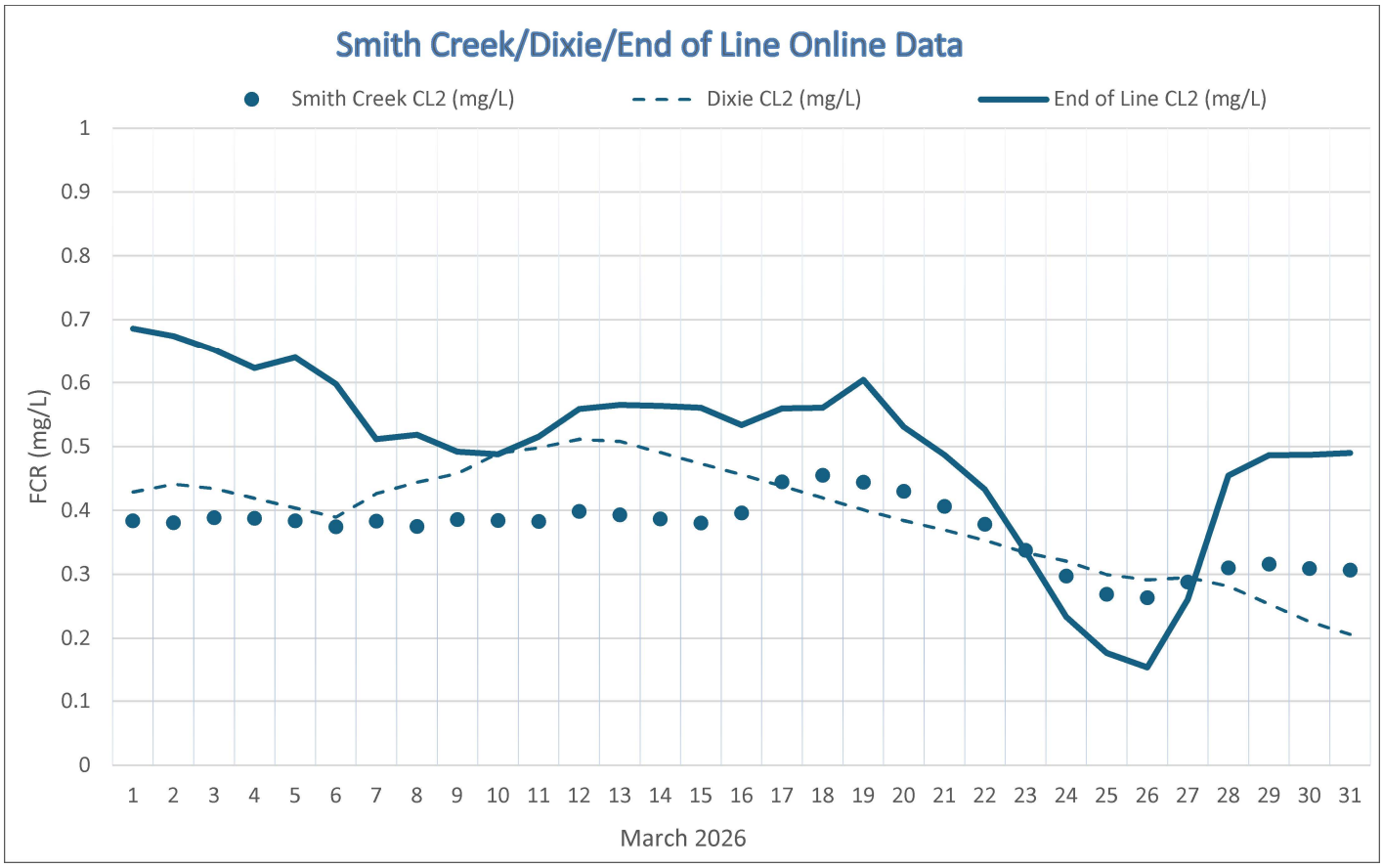
Glenrosa PS & Reservoir

Glenrosa PS & Reservoir Online Data							
Date	Flow Total From PS	Peak Flow From PS	Reservoir pH	Reservoir Temp	Reservoir FCR		
	(ML)	Max (ML/Day)	Avg (pH)	Avg (ºC)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
March 2026							
1	1.87	4.36	7.58	3.48	0.43	0.89	0.53
2	1.79	4.36	7.57	3.55	0.40	0.83	0.52
3	1.71	4.35	7.57	3.62	0.43	0.80	0.51
4	1.73	4.12	7.56	3.72	0.42	0.77	0.51
5	1.72	4.12	7.57	3.88	0.40	0.87	0.51
6	1.71	4.16	7.58	4.02	0.40	0.81	0.50
7	1.78	4.12	7.59	4.22	0.40	0.78	0.49
8	1.81	4.12	7.58	4.48	0.40	0.78	0.50
9	1.74	4.13	7.56	4.58	0.34	0.90	0.49
10	1.76	4.41	7.55	4.39	0.29	1.99	0.50
11	1.66	4.40	7.55	4.21	0.38	1.50	0.50
12	1.65	4.43	7.52	4.16	0.23	1.39	0.50
13	1.90	4.39	7.54	4.14	0.24	1.44	0.52
14	1.69	4.49	7.54	4.16	0.32	1.19	0.50
15	1.71	4.42	7.49	4.10	0.34	1.26	0.51
16	1.92	4.40	7.51	3.94	0.28	1.29	0.52
17	1.59	5.05	7.44	3.98	0.36	1.38	0.52
18	1.79	5.04	7.37	4.26	0.43	0.79	0.52
19	1.83	5.04	7.39	4.68	0.43	0.74	0.50
20	1.83	5.03	7.39	5.08	0.41	0.75	0.50
21	1.88	5.03	7.41	5.21	0.39	1.04	0.46
22	1.83	5.05	7.40	5.15	0.21	1.68	0.42
23	1.67	5.01	7.37	5.07	0.32	1.54	0.40
24	1.88	5.01	7.40	5.03	0.27	1.84	0.42
25	1.71	4.34	7.42	5.06	0.28	2.09	0.41
26	1.90	4.36	7.45	5.03	0.14	3.00	0.44
27	1.90	4.36	7.36	4.97	0.26	5.30	0.44
28	1.77	4.35	7.31	5.02	0.24	2.52	0.44
29	2.01	4.36	7.17	5.07	0.29	1.18	0.45
30	2.21	4.36	7.14	4.99	0.20	2.56	0.49
31	1.78	4.35	7.19	4.85	0.26	4.35	0.47
Total	54						
Average	1.80	4.50	7.45	4.46	0.33	1.56	0.48
Min	1.59	4.12	7.14	3.48	0.14	0.74	0.40
Max	2.21	5.05	7.59	5.21	0.43	5.30	0.53


Glenrosa Reservoir Online Data
Free Chlorine Residual (mg/L)
FCR (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
March 2026

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

Date	Smith Creek Reservoir 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)
March 2026									
1	0.36	0.42	0.38	0.37	0.47	0.43	0.67	0.70	0.69
2	0.37	0.39	0.38	0.43	0.46	0.44	0.65	0.69	0.67
3	0.37	0.40	0.39	0.41	0.46	0.43	0.63	0.66	0.65
4	0.37	0.39	0.39	0.40	0.44	0.42	0.61	0.65	0.62
5	0.37	0.39	0.38	0.40	0.43	0.40	0.60	0.67	0.64
6	0.37	0.39	0.37	0.37	0.41	0.39	0.57	0.62	0.60
7	0.36	0.42	0.38	0.36	0.46	0.43	0.43	0.57	0.51
8	0.37	0.39	0.38	0.42	0.46	0.44	0.49	0.54	0.52
9	0.37	0.42	0.39	0.43	0.48	0.46	0.48	0.50	0.49
10	0.37	0.42	0.38	0.45	0.51	0.49	0.46	0.50	0.49
11	0.37	0.39	0.38	0.48	0.53	0.50	0.49	0.55	0.52
12	0.37	0.42	0.40	0.47	0.53	0.51	0.54	0.58	0.56
13	0.39	0.39	0.39	0.48	0.53	0.51	0.55	0.58	0.57
14	0.38	0.39	0.39	0.47	0.51	0.49	0.54	0.58	0.56
15	0.37	0.38	0.38	0.45	0.50	0.47	0.54	0.58	0.56
16	0.37	6.65	0.40	0.44	0.48	0.46	0.52	0.55	0.53
17	0.43	0.46	0.44	0.41	0.47	0.44	0.53	2.07	0.56
18	0.45	0.46	0.46	0.40	0.45	0.42	0.50	0.62	0.56
19	0.43	0.46	0.44	0.37	0.42	0.40	0.56	0.63	0.60
20	0.41	0.45	0.43	0.36	0.40	0.38	0.50	0.82	0.53
21	0.39	0.42	0.41	0.36	0.40	0.37	0.48	0.50	0.49
22	0.35	0.39	0.38	0.33	0.37	0.35	0.33	0.49	0.43
23	0.31	0.35	0.34	0.32	0.36	0.33	0.26	0.38	0.34
24	0.27	0.32	0.30	0.30	0.34	0.32	0.14	0.32	0.23
25	0.25	0.28	0.27	0.29	0.33	0.30	0.07	0.30	0.18
26	0.25	0.29	0.26	0.26	0.32	0.29	0.06	0.30	0.15
27	0.26	0.33	0.29	0.26	0.32	0.30	0.13	0.46	0.26
28	0.29	0.33	0.31	0.26	0.32	0.28	0.43	0.50	0.45
29	0.30	0.33	0.32	0.23	0.29	0.25	0.46	0.52	0.49
30	0.30	0.32	0.31	0.21	0.26	0.23	0.46	0.51	0.49
31	0.30	0.32	0.31	0.19	0.23	0.21	0.48	0.52	0.49
Average	0.35	0.59	0.37	0.37	0.42	0.39	0.46	0.60	0.50
Min	0.25	0.28	0.26	0.19	0.23	0.21	0.06	0.30	0.15
Max	0.45	6.65	0.46	0.48	0.53	0.51	0.67	2.07	0.69



- Note: Declined of the FCR at End-of-Line was related to flow paced FCR output at the treatment plant and is reflected in the trend for this location.

End-of-Line WQS Water Quality					
Date	**Turbidity**	**Temp**	**FCR**		**pH**
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Mar-26	0.09	6.9	0.58	0.65	7.41
10-Mar-26	0.11	8.0	0.49	0.48	7.78
17-Mar-26	0.13	9.9	0.54	0.53	7.61
24-Mar-26	0.16	9.3	0.21	0.23	7.63
30-Mar-26	0.11	12.5	0.41	0.48	7.29
# of Samples	5	5	5	5	5
Average	0.12	9.3	0.45	0.47	7.54
Minimum	0.09	6.9	0.21	0.23	7.29
Maximum	0.16	12.5	0.58	0.65	7.78

WQ Field Data

McIver SS

McIver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Mar-26	0.05	4.9	0.49	7.00
10-Mar-26	0.13	5.6	0.61	7.43
17-Mar-26	0.14	8.2	0.43	7.64
24-Mar-26	0.14	5.9	0.36	7.68
30-Mar-26	0.12	7.9	0.52	7.53
# of Samples	5	5	5	5
Average	0.12	6.5	0.48	7.46
Minimum	0.05	4.9	0.36	7.00
Maximum	0.14	8.2	0.61	7.68

Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Mar-26	0.06	7.1	0.55	7.75
10-Mar-26	0.25	6.9	0.47	7.73
17-Mar-26	0.13	9.6	0.64	
24-Mar-26	0.09	5.6	0.49	7.6
30-Mar-26	0.13	8.2	0.59	7.32
# of Samples	5	5	5	4
Average	0.13	7.5	0.55	7.6
Minimum	0.06	5.6	0.47	7.32
Maximum	0.25	9.6	0.64	7.75