PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
April-2026

Volume of Flow (ML) and pH

DATE	Peak Flow (MLD)	Influent INFs	Influent RAW	Effluent Non UV Disinfected OUTFALL 30	Effluent Non UV Disinfected OUTFALL 20	Effluent Non UV Disinfected MPW	Effluent UV Disinfected EPEPS	UV Disinfected OUTFALL 10 FEC	UV Disinfected OUTFALL 10 FE	pH@25°C RAW	pH@25°C OUTFALL 30	pH@25°C OUTFALL 20	pH@25°C OUTFALL 10 FEC
Wed-01	432.3	0.0	293.3	16.3	0.0	11.0	0.0	266.0	266.0	7.43	7.41		7.22
Thu-02	387.8	0.0	283.5	1.8	0.0	10.9	0.0	270.8	270.8	7.45	7.67		7.20
Fri-03	559.1	0.0	318.9	44.5	0.0	11.0	0.0	263.4	263.4	7.58	7.55		7.21
Sat-04	577.9	0.0	349.1	56.6	0.0	11.2	0.0	281.3	281.3	7.38	7.46		7.17
Sun-05	426.2	0.0	300.3	2.9	0.0	12.4	0.0	285.0	285.0	7.59	7.79		7.36
Mon-06	385.6	0.0	294.2	0.0	0.0	11.2	0.0	283.0	283.0	7.48			7.40
Tue-07	390.9	0.0	309.3	0.0	0.0	12.3	0.0	297.0	297.0	7.43			7.45
Wed-08	515.1	0.0	332.2	42.4	0.0	11.7	0.0	278.1	278.1	7.42	7.49		7.60
Thu-09	462.4	0.0	322.5	24.7	0.0	11.8	0.0	286.0	286.0	7.44	7.45		7.35
Fri-10	444.0	0.0	320.3	22.6	0.0	11.5	0.0	286.2	286.2	7.41	7.51		7.32
Sat-11	420.0	0.0	307.6	1.9	0.0	12.4	0.0	293.3	293.3	7.43	7.57		7.29
Sun-12	413.2	0.0	306.1	0.0	0.0	12.4	0.0	293.7	293.7	7.43			7.28
Mon-13	471.7	0.0	322.0	10.1	0.0	12.6	0.0	299.3	299.3	7.39	7.62		7.43
Tue-14	750.1	0.0	335.7	31.2	0.0	12.4	0.0	292.1	292.1	7.39	7.52		7.30
Wed-15	698.7	0.0	363.0	24.9	0.0	12.5	0.0	325.6	325.6	7.47	7.43		7.30
Thu-16	448.3	0.0	306.1	7.6	0.0	12.1	0.0	286.4	286.4	7.53	7.71		7.50
Fri-17	441.9	0.0	310.3	0.0	0.0	11.5	0.0	298.8	298.8	7.34			7.40
Sat-18	360.7	0.0	294.4	0.0	0.0	12.0	0.0	282.4	282.4	7.45			7.41
Sun-19	429.3	0.0	292.5	0.0	0.0	11.8	0.0	280.7	280.7	7.49			7.44
Mon-20	399.8	0.0	294.2	0.0	0.0	11.7	0.0	282.5	282.5	7.48			7.49
Tue-21	360.8	0.0	294.6	0.0	0.0	12.0	0.0	282.6	282.6	7.44			7.57
Wed-22	357.3	0.0	297.2	0.0	0.0	10.6	0.0	286.6	286.6	7.39			7.39
Thu-23	351.0	0.0	285.0	0.0	0.0	10.6	0.0	274.4	274.4	7.42			7.39
Fri-24	397.2	0.0	289.4	0.0	0.0	11.1	0.0	278.3	278.3	7.51			7.45
Sat-25	462.6	0.0	296.8	11.7	0.0	10.9	0.0	274.2	274.2	7.39	7.53		7.44
Sun-26	406.7	0.0	294.5	0.0	0.0	10.7	0.0	283.8	283.8	7.55			7.29
Mon-27	396.4	0.0	311.1	0.0	0.0	10.5	0.0	300.6	300.6	7.41			7.39
Tue-28	420.4	0.0	299.2	0.0	0.0	10.0	0.0	289.2	289.2	7.36			7.32
Wed-29	461.9	0.0	294.6	0.0	0.0	11.0	0.0	283.6	283.6	7.59			7.40
Thu-30	351.8	0.0	293.6	0.0	0.0	10.6	0.0	283.0	283.0	7.37			7.40
Average	**446.0**	**0.0**	**307.0**	**10.0**	**0.0**	**11.5**	**0.0**	**285.6**	**285.6**	**7.45**	**7.55**		**7.37**
Minimum	**351.0**	**0.0**	**283.5**	**0.0**	**0.0**	**10.0**	**0.0**	**263.4**	**263.4**	**7.34**	**7.41**		**7.17**
Maximum	**750.1**	**0.0**	**363.0**	**56.6**	**0.0**	**12.6**	**0.0**	**325.6**	**325.6**	**7.59**	**7.79**		**7.60**
GeoMean													
Total		**0**	**9211**	**299**	**0**	**344**	**0**	**8568**	**8568**				

Liquid Stream Quality — TSS and $BOD_5/cBOD_5$

DATE	TSS (mg/L) RAW	TSS OUTFALL 30	TSS OUTFALL 20	TSS EPEPS	TSS OUTFALL 10 FEC	TSS OUTFALL 10 FE	BOD_5/$cBOD_5$ (mg/L) RAW BOD_5	OUTFALL 30 BOD_5	OUTFALL 20 BOD_5	EPEPS BOD_5	OUTFALL 10 FEC $cBOD_5$	OUTFALL 10 FE $cBOD_5$
Wed-01	436	74			6.7	6.7	255	137			3	3
Thu-02	356	43			5.8	5.8	299	134			4	4
Fri-03	368	69			6.6	6.6	290	122			4	4
Sat-04	320	83			6.4	6.4	236	109			3	3
Sun-05	296	62			3.8	3.8	286	104			3	3
Mon-06	420				5.0	5.0	290				4	4
Tue-07	376				3.8	3.8	292				4	4
Wed-08	324	68			5.1	5.1	248	110			3	3
Thu-09	332	75			4.5	4.5	221	124			3	3
Fri-10	332	56			5.7	5.7	262	119			3	3
Sat-11	320	63			5.7	5.7	242	110			3	3
Sun-12	396				5.5	5.5	260				3	3
Mon-13	416	102			6.3	6.3	263	181			4	4
Tue-14	352	76			5.3	5.3	198	116			4	4
Wed-15	304	76			5.4	5.4	196	75			3	3
Thu-16	304	79			4.6	4.6	213	140			3	3
Fri-17	300				6.0	6.0	233				4	4
Sat-18	288				5.2	5.2	287				3	3
Sun-19	266				5.0	5.0	222				3	3
Mon-20	310				5.7	5.7	242				3	3
Tue-21	304				5.1	5.1	232				3	3
Wed-22	316				13.7	13.7	241				3	3
Thu-23	324				6.8	6.8	238				3	3
Fri-24	352				3.0	3.0	259				3	3
Sat-25	336	71			4.4	4.4	221	152			3	3
Sun-26	406				5.4	5.4	262				3	3
Mon-27	308				4.0	4.0	244				3	3
Tue-28	268				5.3	5.3	276				3	3
Wed-29	332				10.3	10.3	227				3	3
Thu-30	328				11.0	11.0	244				4	4
Average	**336**	**71**			**5.9**	**5.9**	**249**	**124**			**3**	**3**
Minimum	**266**	**43**			**3.0**	**3.0**	**196**	**75**			**3**	**3**
Maximum	**436**	**102**			**13.7**	**13.7**	**299**	**181**			**4**	**4**
GeoMean												
Total												

Liquid Stream Quality — TP and NH3-N

DATE	TP (mg/L) RAW	TP OUTFALL 30	TP OUTFALL 20	TP EPEPS	TP OUTFALL 10 FEC	TP OUTFALL 10 FE	NH3-N (mg/L) RAW	NH3-N OUTFALL 30	NH3-N OUTFALL 20	NH3-N EPEPS	NH3-N OUTFALL 10 FEC	NH3-N OUTFALL 10 FE
Wed-01	6.9	6.4			0.32	0.32	33.6	44.7			2.22	2.22
Thu-02	9.7	7.7			0.34	0.34	39.9	40.5			1.92	1.92
Fri-03	9.0	6.8			0.36	0.36	31.6	40.3			2.53	2.53
Sat-04	6.5	6.7			0.27	0.27	28.2	37.6			1.20	1.20
Sun-05	7.8	6.2			0.30	0.30	33.0	31.8			2.07	2.07
Mon-06	9.0				0.32	0.32	34.9				3.42	3.42
Tue-07	8.8				0.35	0.35	33.5				3.26	3.26
Wed-08	7.7	7.2			0.32	0.32	31.8	38.1			1.83	1.83
Thu-09	7.2	7.9			0.33	0.33	30.0	38.2			1.10	1.10
Fri-10	7.1	7.3			0.31	0.31	31.8	36.3			1.24	1.24
Sat-11	7.2	6.2			0.29	0.29	32.3	34.8			1.61	1.61
Sun-12	8.1				0.31	0.31	34.3				2.06	2.06
Mon-13	7.7	8.8			0.33	0.33	34.8	39.3			2.12	2.12
Tue-14	7.4	6.8			0.32	0.32	33.6	36.0			0.83	0.83
Wed-15	7.9	3.9			0.35	0.35	38.0	22.9			1.90	1.90
Thu-16	8.1	7.5			0.34	0.34	30.4	38.4			1.78	1.78
Fri-17	8.1				0.33	0.33	23.6				2.17	2.17
Sat-18	8.6				0.59	0.59	27.3				2.20	2.20
Sun-19	7.5				0.42	0.42	36.6				1.31	1.31
Mon-20	8.3				0.36	0.36	36.4				0.85	0.85
Tue-21	8.5				0.32	0.32	36.3				0.53	0.53
Wed-22	8.2				0.31	0.31	35.3				0.66	0.66
Thu-23	8.0				0.34	0.34	36.0				0.95	0.95
Fri-24	8.3				0.35	0.35	38.1				1.47	1.47
Sat-25	8.3	7.6			0.35	0.35	34.0	39.8			1.60	1.60
Sun-26	7.8				0.33	0.33	32.7				1.57	1.57
Mon-27	8.0				0.30	0.30	33.6				1.85	1.85
Tue-28	7.8				0.28	0.28	34.2				1.13	1.13
Wed-29	8.7				0.25	0.25	38.8				0.76	0.76
Thu-30	8.2				0.39	0.39	35.2				0.80	0.80
Average	**8.0**	**6.9**			**0.34**	**0.34**	**33.7**	**37.1**			**1.63**	**1.63**
Minimum	**6.5**	**3.9**			**0.25**	**0.25**	**23.6**	**22.9**			**0.53**	**0.53**
Maximum	**9.7**	**8.8**			**0.59**	**0.59**	**39.9**	**44.7**			**3.42**	**3.42**
GeoMean												
Total												

Liquid Stream Quality — TKN, NO_2+NO_3, Chloride and *E. coli*

DATE	TKN (mg/L) RAW	TKN OUTFALL 30	TKN OUTFALL 20	TKN OUTFALL 10 FEC	NO_2+NO_3 (mg/L) RAW	NO_2+NO_3 OUTFALL 30	NO_2+NO_3 OUTFALL 20	NO_2+NO_3 OUTFALL 10 FEC	Chloride (mg/L) RAW	Chloride OUTFALL 30	Chloride OUTFALL 20	Chloride OUTFALL 10 FEC	*E. coli* (Counts/100 mL) RAW X10^6	*E. coli* OUTFALL 30 X10^6	*E. coli* OUTFALL 20 X10^6	*E. coli* OUTFALL 10 FEC
Wed-01	40.4	43.7		4.0	<0.01	0.07		10.3	129	177		165		2.6		12
Thu-02	60.6	52.8		3.8		0.59		11.6	92.7	138		134		1.3		11
Fri-03	51.8	38.9		3.8		0.10		11.3	139	183		123		1.9		20
Sat-04	39.8	41.4		3.2		0.16		10.6	94.7	104		132		2.4		10
Sun-05	53.4	42.3		4.0		0.19		10.1	90.8	91.7		105		1.2		14
Mon-06	57.8			5.2				9.7	89			91.3				13
Tue-07	60.4			5.3				9.9	140			115				9
Wed-08	56.8	49.4		3.8	<0.01	0.09		10.1	165	189		155		0.5		20
Thu-09	56.4	60.1		2.9		0.07		10.7	94	117		146		1.5		11
Fri-10	49.6	45.7		3.2		0.06		11.5	90.3	110		113		1.7		7
Sat-11	49.6	43.1		3.3		0.02		11.7	95.5	107		107		0.8		12
Sun-12	52.5			3.8				11.4	86			104				18
Mon-13	52.3	55.1		3.7				11.7	102			95.3		1.5		15
Tue-14	49.4	45.3		2.8		0.13		11.4	96.2	111		112		2.0		14
Wed-15	55.8	28.6		3.6	<0.01	0.24		9.6	105	109		115		1.2		12
Thu-16	53.9	46.9		4.4				13.1	161			122		1.8		30
Fri-17	52.3			3.5				13.3	123			166				15
Sat-18	58.5			3.7				12.0	122			127				10
Sun-19	52.2			3.4				12.4	98.5			110				10
Mon-20	57.7			3.0				12.2	106			105				18
Tue-21	58.3			2.3				11.0	106			111				12
Wed-22	53.8			2.6	<0.01			12.0	125			115				11
Thu-23	59.8			2.7				13.0	102			114				7
Fri-24	60.3			3.1				13.2	188			119				10
Sat-25	52.1	53.3		3.5		1.46		12.5	167	263		169		1.9		10
Sun-26	49.8			3.2				12.7	107			166				16
Mon-27	52.1			3.4				11.5	102			114				19
Tue-28	51.8			2.8				11.8	106			112				14
Wed-29	55.3			1.9	<0.01			12.8	104			109				13
Thu-30	50.4			1.6				13.4	100			106				14
Average	**53.5**	**46.2**		**3.4**	**<0.01**	**0.26**		**11.6**	**114**	**142**		**123**				
Minimum	**39.8**	**28.6**		**1.6**	**<0.01**	**0.02**		**9.6**	**86**	**92**		**91**		**0.2**		**7**
Maximum	**60.6**	**60.1**		**5.3**	**<0.01**	**1.46**		**13.4**	**188**	**263**		**169**		**3.0**		**30**
GeoMean														**1.6**		**13**
Total																

Digested SludgeTotal Monthly Volume (ML):	66.2

Enhanced Primary Treatment (EPT) Usage

Total Bypass (hr)	EPT Usage (hr)	% Usage
85	85	100%

AEP Comments

Reference #	Comments

Report Comments

Collection Date	Location	Test	Comment
4/1/2026	RAW	BOD_C	Sample dilutions show more than 30% between highest and lowest value
4/2/2026	OUTFALL10	BOD_C	Sample dilutions show more than 30% between highest and lowest value
4/3/2026	OUTFALL10	BOD_C	Sample dilutions show more than 30% between highest and lowest value
4/14/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
4/15/2026	RAW	BOD_C	Sample dilutions show more than 30% between highest and lowest value
4/24/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
4/28/2026	RAW	BOD_C	Sample dilutions show more than 30% between highest and lowest value
4/28/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value

RAW	Untreated Influent into the plant	OUTFALL 10	UV-disinfected, discharged via OUTFALL 10
INF	Untreated wastewater from collection system	OUTFALL 20	Combined Bypass (RAW + PE + EPE)
INFs	Influent, screened at the Headworks Diversion Structure	OUTFALL 30	Combined Bypass (INF + INFS + PE30 + EPE)
PE	Primary Effluent from conventional primaries	MPW	Membrane Product Water (Effluent re-use water)
PE 30	Primary Effluent from conventional primaries discharged via Outfall 30	ML	Megalitre (1,000,000 Litre)
EPT	Enhanced Primary Treatment	MPN	Most Probable Number
EPE	Enhanced Primary Effluent	NR	No Result
EPEPS	Enhanced Primary Effluent Pump Station	NS	No Sample
FE	Final Effluent from secondary treatment process (with biological nutrient removal). Pre-Ultraviolet disinfection.	INS	Insufficient Sample
FEC	Combined post-UV disinfection (FE+EPEPS)	AEP	Alberta Environment & Parks
	Indicates the displayed result is an average or geomean of more than one sample on that day.		

* Contact Laboratory for information about the quality assurance associated with the results

Averages and geometric means may be calculated using only the numeric component of censored values.

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Report finalized by Ayesha Prasad May 27, 2026 10:49