PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
February-2026

Volume of Flow (ML)

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	Effluent UV Disinfected OUTFALL 10 FEC	Effluent UV Disinfected OUTFALL 10 FE
Sun-01	382.1	0.0	282.4	0.0	0.0	11.8	0.0	270.6	270.6
Mon-02	385.5	0.0	290.5	0.0	0.0	11.4	0.0	279.1	279.1
Tue-03	348.0	0.0	287.3	0.0	0.0	11.7	0.0	275.6	275.6
Wed-04	458.8	0.0	302.9	15.4	0.0	12.6	0.0	274.9	274.9
Thu-05	657.9	0.0	384.5	69.4	0.0	12.3	0.0	302.8	302.8
Fri-06	413.3	0.0	312.9	2.9	0.0	12.6	0.0	297.4	297.4
Sat-07	355.4	0.0	285.2	0.0	0.0	11.4	0.0	273.8	273.8
Sun-08	503.0	0.0	308.3	25.6	0.0	12.2	0.0	270.5	270.5
Mon-09	383.7	0.0	297.8	0.0	0.0	12.4	0.0	285.4	285.4
Tue-10	342.0	0.0	279.8	0.0	0.0	12.1	0.0	267.7	267.7
Wed-11	324.2	0.0	276.2	0.0	0.0	11.6	0.0	264.6	264.6
Thu-12	335.8	0.0	280.4	0.0	0.0	11.7	0.0	268.7	268.7
Fri-13	379.6	0.0	287.2	0.0	0.0	11.8	0.0	275.4	275.4
Sat-14	337.5	0.0	274.6	0.0	0.0	11.5	0.0	263.1	263.1
Sun-15	332.6	0.0	270.0	0.0	0.0	11.6	0.0	258.4	258.4
Mon-16	348.9	0.0	267.8	0.0	0.0	11.5	0.0	256.3	256.3
Tue-17	333.5	0.0	275.9	0.0	0.0	11.6	0.0	264.3	264.3
Wed-18	334.2	0.0	272.5	0.0	0.0	10.0	0.0	262.5	262.5
Thu-19	332.8	0.0	276.6	0.0	0.0	10.6	0.0	266.0	266.0
Fri-20	327.7	0.0	279.4	0.0	0.0	11.8	0.0	267.6	267.6
Sat-21	339.9	0.0	274.1	0.0	0.0	12.3	0.0	261.8	261.8
Sun-22	358.5	0.0	276.5	0.0	0.0	12.5	0.0	264.0	264.0
Mon-23	349.4	0.0	282.4	0.0	0.0	11.7	0.0	270.7	270.7
Tue-24	333.2	0.0	275.3	0.0	0.0	11.2	0.0	264.1	264.1
Wed-25	368.7	0.0	280.9	0.0	0.0	11.7	0.0	269.2	269.2
Thu-26	371.1	0.0	290.7	0.0	0.0	11.4	0.0	279.3	279.3
Fri-27	357.4	0.0	281.3	0.0	0.0	11.0	0.0	270.3	270.3
Sat-28	366.1	0.0	277.5	0.0	0.0	11.3	0.0	266.2	266.2
Average	373.6	0.0	286.8	4.0	0.0	11.7	0.0	271.1	271.1
Minimum	324.2	0.0	267.8	0.0	0.0	10.0	0.0	256.3	256.3
Maximum	657.9	0.0	384.5	69.4	0.0	12.6	0.0	302.8	302.8
GeoMean									
Total		0	8031	113	0	327	0	7590	7590

Liquid Stream Quality — pH@25°C and TSS (mg/L)

DATE	pH RAW	pH OUTFALL 30	pH OUTFALL 20	pH OUTFALL 10 FEC	TSS RAW	TSS OUTFALL 30	TSS OUTFALL 20	TSS EPEPS	TSS OUTFALL 10 FEC	TSS OUTFALL 10 FE
Sun-01	7.50			7.45	384				2.8	2.8
Mon-02	7.39			7.33	364				4.4	4.4
Tue-03	7.47			7.41	324				4.6	4.6
Wed-04	7.42	7.40		7.44	416	180			4.4	4.4
Thu-05	7.38	7.35		7.32	408	168			4.1	4.1
Fri-06	7.54	7.79		7.33	252	109			3.0	3.0
Sat-07	7.59			7.44	296				3.6	3.6
Sun-08	7.52	7.43		7.44	307	90			3.4	3.4
Mon-09	7.52			7.38	296				3.4	3.4
Tue-10	7.46			7.42	300				4.0	4.0
Wed-11	7.50			7.48	328				3.0	3.0
Thu-12	7.54			7.45	328				4.0	4.0
Fri-13	7.40			7.31	356				3.5	3.5
Sat-14	7.60			7.57	360				3.9	3.9
Sun-15	7.58			7.34	300				3.6	3.6
Mon-16	7.55			7.48	344				4.1	4.1
Tue-17	7.54			7.62	336				4.7	4.7
Wed-18	7.49			7.41	296				4.3	4.3
Thu-19	7.46			7.45	320				4.3	4.3
Fri-20	7.50			7.41	276				6.7	6.7
Sat-21	7.62			7.56	296				4.5	4.5
Sun-22	7.63			7.55	216				4.5	4.5
Mon-23	7.52			7.46	296				5.1	5.1
Tue-24	7.64			7.50	320				6.6	6.6
Wed-25	7.62			7.86	356				7.0	7.0
Thu-26	7.60			7.47	468				6.0	6.0
Fri-27	7.50			7.53	348				7.3	7.3
Sat-28	7.47			7.54	344				7.3	7.3
Average	7.52	7.49		7.46	330	137			4.6	4.6
Minimum	7.38	7.35		7.31	216	90			2.8	2.8
Maximum	7.64	7.79		7.86	468	180			7.3	7.3
GeoMean										
Total										

Liquid Stream Quality — BOD_5/$cBOD_5$ (mg/L) and TP (mg/L)

DATE	RAW BOD_5	OUTFALL 30 BOD_5	OUTFALL 20 BOD_5	EPEPS BOD_5	OUTFALL 10 FEC $cBOD_5$	OUTFALL 10 FE $cBOD_5$	TP RAW	TP OUTFALL 30	TP OUTFALL 20	TP EPEPS	TP OUTFALL 10 FEC	TP OUTFALL 10 FE
Sun-01	289				3	3	7.9				0.24	0.24
Mon-02	285				3	3	7.8				0.26	0.26
Tue-03	309				3	3	8.5				0.29	0.29
Wed-04	235	156			3	3	7.9	7.3			0.25	0.25
Thu-05	206	127			3	3	6.5	5.9			0.23	0.23
Fri-06	212	112			3	3	6.9	5.4			0.19	0.19
Sat-07	256				3	3	8.1				0.22	0.22
Sun-08	228	145			3	3	7.3	6.4			0.22	0.22
Mon-09	257				2	2	7.4				0.22	0.22
Tue-10	294				3	3	8.0				0.26	0.26
Wed-11	287				3	3	8.4				0.25	0.25
Thu-12	312				3	3	8.6				0.27	0.27
Fri-13	247				3	3	8.5				0.29	0.29
Sat-14	307				3	3	8.7				0.27	0.27
Sun-15	302				3	3	8.7				0.28	0.28
Mon-16	285				3	3	8.0				0.28	0.28
Tue-17	293				3	3	9.1				0.29	0.29
Wed-18	255				3	3	8.4				0.30	0.30
Thu-19	283				3	3	8.7				0.47	0.47
Fri-20	299				3	3	8.2				0.32	0.32
Sat-21	329				3	3	9.7				0.30	0.30
Sun-22	323				3	3	7.9				0.32	0.32
Mon-23	234				3	3	7.8				0.34	0.34
Tue-24	318				4	4	8.5				0.42	0.42
Wed-25	274				4	4	8.6				0.39	0.39
Thu-26	335				4	4	8.7				0.43	0.43
Fri-27	337				4	4	9.0				0.50	0.50
Sat-28	304				4	4	9.1				0.49	0.49
Average	282	135			3	3	8.2	6.2			0.31	0.31
Minimum	206	112			2	2	6.5	5.4			0.19	0.19
Maximum	337	156			4	4	9.7	7.3			0.50	0.50
GeoMean												
Total												

Liquid Stream Quality — NH3-N (mg/L) and TKN (mg/L)

DATE	NH3-N RAW	NH3-N OUTFALL 30	NH3-N OUTFALL 20	NH3-N EPEPS	NH3-N OUTFALL 10 FEC	NH3-N OUTFALL 10 FE	TKN RAW	TKN OUTFALL 30	TKN OUTFALL 20	TKN OUTFALL 10 FEC
Sun-01	35.1				2.24	2.24	57.8			3.9
Mon-02	33.9				3.37	3.37	57.4			5.2
Tue-03	34.9				2.96	2.96	55.9			4.6
Wed-04	33.4	39.3			3.32	3.32	57.9	54.3		5.2
Thu-05	25.1	32.1			2.26	2.26	42.2	42.3		3.6
Fri-06	31.4	29.2			2.83	2.83	47.4	41.3		4.2
Sat-07	34.1				5.50	5.50	55.9			6.7
Sun-08	30.3	31.3			3.85	3.85	47.2	46.2		5.0
Mon-09	33.9				2.56	2.56	51.3			4.2
Tue-10	34.5				4.15	4.15	52.9			5.6
Wed-11	36.0				3.67	3.67	54.1			5.3
Thu-12	38.8				4.40	4.40	53.5			5.3
Fri-13	37.0				4.42	4.42	52.6			5.4
Sat-14	38.3				3.76	3.76	56.2			5.2
Sun-15	38.5				3.43	3.43	52.0			4.2
Mon-16	39.1				3.61	3.61	59.3			4.4
Tue-17	42.6				3.24	3.24	61.9			4.6
Wed-18	40.5				3.33	3.33	56.6			4.9
Thu-19	42.0				4.60	4.60	57.0			5.9
Fri-20	41.2				5.09	5.09	54.4			6.2
Sat-21	40.2				4.32	4.32	70.4			5.1
Sun-22	41.5				4.17	4.17	54.2			5.5
Mon-23	37.7				3.11	3.11	53.2			4.6
Tue-24	37.1				2.71	2.71	56.4			4.3
Wed-25	37.7				3.16	3.16	62.6			5.6
Thu-26	36.3				3.32	3.32	48.6			4.6
Fri-27	31.7				3.09	3.09	53.2			4.7
Sat-28	37.5				2.87	2.87	53.6			5.2
Average	36.4	33.0			3.55	3.55	54.9	46.0		5.0
Minimum	25.1	29.2			2.24	2.24	42.2	41.3		3.6
Maximum	42.6	39.3			5.50	5.50	70.4	54.3		6.7
GeoMean										
Total										

Liquid Stream Quality — NO_2+NO_3 (mg/L), Chloride (mg/L) and *E. coli* (Counts/100 mL)

DATE	NO_2+NO_3 RAW	NO_2+NO_3 OUTFALL 30	NO_2+NO_3 OUTFALL 20	NO_2+NO_3 OUTFALL 10 FEC	Chloride RAW	Chloride OUTFALL 30	Chloride OUTFALL 20	Chloride OUTFALL 10 FEC	E. coli RAW X10^6	E. coli OUTFALL 30 X10^6	E. coli OUTFALL 20 X10^6	E. coli OUTFALL 10 FEC
Sun-01				10.2	145			269				9
Mon-02				9.7	305			172				9
Tue-03				9.4	197			275				8
Wed-04	<0.01	0.10		9.3	241	422		219		3.1		12
Thu-05		0.28		9.1	318	382		281		2.5		15
Fri-06		0.22		8.4	204	307		282		1.9		8
Sat-07				9.1	140			212				9
Sun-08		0.43		9.6	180	214		165		2.4		10
Mon-09				9.0	108			163				12
Tue-10				10.0	101			130				11
Wed-11	<0.01			11.4	95.8			116				11
Thu-12				11.5	99.9			114	1.3			7
Fri-13				11.6	98.7			114				10
Sat-14				11.8	97.1			120				5
Sun-15				12.3	87.6			98.3				10
Mon-16				13.7	80.3			90.4				6
Tue-17				12.9	95.2			87.7				5
Wed-18	<0.01			12.8	90.2			97.5				6
Thu-19				11.7	83.2			94.4				8
Fri-20				12.1	77.8			91.8				8
Sat-21				12.9	74.1			89.7				6
Sun-22				12.4	85.9			83.8				8
Mon-23				11.9	94.1			81.2				12
Tue-24				12.1	107			95.2				16
Wed-25	<0.01			12.3	162			121				6
Thu-26				13.3	233			187				17
Fri-27				13.2	111			221				16
Sat-28				13.9	86.8			132				19
Average	<0.01	0.26		11.3	136	331		150				
Minimum	<0.01	0.10		8.4	74	214		81	1.3	1.6		5
Maximum	<0.01	0.43		13.9	318	422		282	1.3	4.0		19
GeoMean									1.3	2.6		9
Total												

Digested SludgeTotal Monthly Volume (ML):	65

Enhanced Primary Treatment (EPT) Usage

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

AEP Comments

Reference #	Comments

Report Comments

Collection Date	Location	Test	Comment
2/2/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
2/5/2026	OUTFALL30	BOD_C	Residual Dissolved Oxygen <1.5 mg/L for all dilutions. (over-depleted)
2/6/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
2/16/2026	RAW	BOD_C	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 Mar 25, 2026 10:23