PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
May-2026

DATE	Peak Flow (MLD)	Volume of Flow (ML) Influent INFs	Influent RAW	Effluent Non UV Disinfected OUTFALL 30	Non UV Disinfected OUTFALL 20	Non UV Disinfected MPW	UV Disinfected EPEPS	UV Disinfected OUTFALL 10 FEC	UV Disinfected OUTFALL 10 FE
Fri-01	344.7	0.0	291.0	0.0	0.0	10.7	0.0	280.3	280.3
Sat-02	342.8	0.0	280.8	0.0	0.0	11.1	0.0	269.7	269.7
Sun-03	364.9	0.0	283.7	0.0	0.0	10.7	0.0	273.0	273.0
Mon-04	358.1	0.0	286.8	0.0	0.0	10.1	0.0	276.7	276.7
Tue-05	348.7	0.0	279.9	0.0	0.0	11.0	0.0	268.9	268.9
Wed-06	344.4	0.0	280.5	0.0	0.0	10.7	0.0	269.8	269.8
Thu-07	349.3	0.0	279.9	0.0	0.0	11.2	0.0	268.7	268.7
Fri-08	347.2	0.0	288.9	0.0	0.0	10.7	0.0	278.2	278.2
Sat-09	345.0	0.0	278.8	0.0	0.0	10.6	0.0	268.2	268.2
Sun-10	374.9	0.0	277.5	0.0	0.0	10.3	0.0	267.2	267.2
Mon-11	373.2	0.0	283.9	0.0	0.0	10.8	0.0	273.1	273.1
Tue-12	338.7	0.0	275.1	0.0	0.0	12.3	0.0	262.8	262.8
Wed-13	342.0	0.0	276.6	0.0	0.0	12.4	0.0	264.2	264.2
Thu-14	515.8	0.0	316.8	10.8	0.0	11.8	0.0	294.2	294.2
Fri-15	331.9	0.0	276.1	0.0	0.0	11.9	0.0	264.2	264.2
Sat-16	319.8	0.0	266.8	0.0	0.0	11.0	0.0	255.8	255.8
Sun-17	419.6	0.0	274.3	0.0	0.0	11.3	0.0	263.0	263.0
Mon-18	356.6	0.0	276.2	0.0	0.0	11.8	0.0	264.4	264.4
Tue-19	353.0	0.0	285.9	0.0	0.0	12.2	0.0	273.7	273.7
Wed-20	340.2	0.0	276.5	0.0	0.0	11.7	0.0	264.8	264.8
Thu-21	339.2	0.0	282.4	0.0	0.0	12.0	0.0	270.4	270.4
Fri-22	324.8	0.0	281.0	0.0	0.0	11.7	0.0	269.3	269.3
Sat-23	319.9	0.0	277.0	0.0	0.0	11.4	0.0	265.6	265.6
Sun-24	348.2	0.0	281.4	0.0	0.0	11.3	0.0	270.1	270.1
Mon-25	345.6	0.0	293.1	0.0	0.0	11.8	0.0	281.3	281.3
Tue-26	341.6	0.0	287.9	0.0	0.0	11.7	0.0	276.2	276.2
Wed-27	341.2	0.0	293.9	0.0	0.0	11.6	0.0	282.3	282.3
Thu-28	346.9	0.0	292.5	0.0	0.0	11.4	0.0	281.1	281.1
Fri-29	915.7	0.0	355.0	56.9	0.0	11.8	0.0	286.3	286.3
Sat-30	374.7	0.0	292.7	3.1	0.0	11.4	0.0	278.2	278.2
Sun-31	1372.6	0.0	653.4	334.3	0.0	12.2	0.0	306.9	306.9
Average	405.8	0.0	297.6	13.1	0.0	11.4	0.0	273.2	273.2
Minimum	319.8	0.0	266.8	0.0	0.0	10.1	0.0	255.8	255.8
Maximum	1372.6	0.0	653.4	334.3	0.0	12.4	0.0	306.9	306.9
GeoMean									
Total		0	9226	405	0	353	0	8469	8469

Liquid Stream Quality

DATE	pH@25°C RAW	pH OUTFALL 30	pH OUTFALL 20	pH OUTFALL 10 FEC	TSS (mg/L) RAW	TSS OUTFALL 30	TSS OUTFALL 20	TSS EPEPS	TSS OUTFALL 10 FEC	TSS OUTFALL 10 FE
Fri-01	7.48			7.49	356				7.3	7.3
Sat-02	7.53			7.62	300				5.6	5.6
Sun-03	7.46			7.52	288				6.2	6.2
Mon-04	7.42			7.46	360				6.8	6.8
Tue-05	7.54			7.53	324				4.9	4.9
Wed-06	7.52			7.61	284				8.4	8.4
Thu-07	7.47			7.64	440				2.9	2.9
Fri-08	7.58			7.56	380				4.7	4.7
Sat-09	7.57			7.55	244				4.1	4.1
Sun-10	7.47			7.57	360				6.1	6.1
Mon-11	7.49			7.67	548				5.2	5.2
Tue-12	7.58			7.76	412				4.6	4.6
Wed-13	7.52			7.63	352				4.4	4.4
Thu-14	7.42	7.48		7.71	444	104			2.1	2.1
Fri-15	7.53			7.62	360				4.3	4.3
Sat-16	7.54			7.68	371				5.5	5.5
Sun-17	7.45			7.47	314				5.4	5.4
Mon-18	7.42			7.54	292				4.7	4.7
Tue-19	7.45			7.60	343				5.7	5.7
Wed-20	7.45			7.52	316				4.6	4.6
Thu-21	7.48			7.59	388				4.4	4.4
Fri-22	7.52			7.63	349				5.2	5.2
Sat-23	7.53			7.69	323				4.5	4.5
Sun-24	7.54			7.57	348				4.9	4.9
Mon-25	7.44			7.60	364				4.7	4.7
Tue-26	7.52			7.57	356				6.0	6.0
Wed-27	7.40			7.58	276				5.3	5.3
Thu-28	7.54			7.64	320				7.8	7.8
Fri-29	7.36	7.40		7.80	852	165			6.7	6.7
Sat-30	7.59	7.82		7.49	332	68			4.9	4.9
Sun-31	7.27	7.37		7.48	280	84			4.4	4.4
Average	7.49	7.52		7.59	364	105			5.2	5.2
Minimum	7.27	7.37		7.46	244	68			2.1	2.1
Maximum	7.59	7.82		7.80	852	165			8.4	8.4
GeoMean										
Total										

DATE	$BOD_5/cBOD_5$ (mg/L) RAW BOD_5	OUTFALL 30 BOD_5	OUTFALL 20 BOD_5	EPEPS BOD_5	OUTFALL 10 FEC $cBOD_5$	OUTFALL 10 FE $cBOD_5$	TP (mg/L) RAW	TP OUTFALL 30	TP OUTFALL 20	TP EPEPS	TP OUTFALL 10 FEC	TP OUTFALL 10 FE
Fri-01	260				4	4	11.1				0.50	0.50
Sat-02	236				4	4	8.7				0.31	0.31
Sun-03	239				4	4	7.5				0.28	0.28
Mon-04	255				3	3	8.0				0.33	0.33
Tue-05	227				3	3	7.7				0.29	0.29
Wed-06	356				3	3	7.9				0.28	0.28
Thu-07	318				3	3	8.2				0.31	0.31
Fri-08	313				3	3	8.8				0.33	0.33
Sat-09	254				3	3	8.0				0.30	0.30
Sun-10	279				4	4	8.3				0.30	0.30
Mon-11	286				4	4	11.2				0.34	0.34
Tue-12	259				3	3	9.0				0.29	0.29
Wed-13	286				3	3	8.5				0.33	0.33
Thu-14	259	224			3	3	7.6	8.4			0.33	0.33
Fri-15	268				2	2	8.7				0.30	0.30
Sat-16	310				3	3	8.8				0.35	0.35
Sun-17	272				2	2	8.2				0.36	0.36
Mon-18	239				3	3	8.5				0.28	0.28
Tue-19	256				3	3	7.9				0.24	0.24
Wed-20	244				3	3	8.2				0.26	0.26
Thu-21	254				3	3	9.4				0.29	0.29
Fri-22	271				3	3	8.8				0.28	0.28
Sat-23	266				2	2	8.7				0.29	0.29
Sun-24	274				3	3	8.3				0.26	0.26
Mon-25	251				2	2	8.5				0.32	0.32
Tue-26	289				3	3	9.2				0.30	0.30
Wed-27	233				3	3	8.0				0.36	0.36
Thu-28	233				3	3	9.0				0.38	0.38
Fri-29	315	171			3	3	9.6	8.6			0.42	0.42
Sat-30	286	108			3	3	9.4	6.2			0.35	0.35
Sun-31	143	73			3	3	4.5	4.9			0.35	0.35
Average	266	144			3	3	8.5	7.0			0.32	0.32
Minimum	143	73			2	2	4.5	4.9			0.24	0.24
Maximum	356	224			4	4	11.2	8.6			0.50	0.50
GeoMean												
Total												

DATE	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	TKN (mg/L) RAW	TKN OUTFALL 30	TKN OUTFALL 20	TKN OUTFALL 10 FEC
Fri-01	34.4				1.18	1.18	60.6			3.4
Sat-02	33.5				1.27	1.27	53.7			2.7
Sun-03	33.4				1.29	1.29	47.7			2.9
Mon-04	33.1				1.30	1.30	51.0			3.1
Tue-05	32.8				1.16	1.16	51.5			2.7
Wed-06	32.6				1.20	1.20	46.7			2.9
Thu-07	31.0				1.27	1.27	51.8			2.9
Fri-08	29.4				1.21	1.21	49.2			2.9
Sat-09	37.5				0.92	0.92	54.7			2.7
Sun-10	31.3				1.31	1.31	54.2			3.1
Mon-11	31.3				0.96	0.96	53.7			2.5
Tue-12	31.7				0.60	0.60	55.1			2.4
Wed-13	32.8				0.88	0.88	52.6			2.6
Thu-14	27.4	34.2			0.90	0.90	49.1	47.8		2.6
Fri-15	34.3				1.28	1.28	53.6			3.3
Sat-16	35.7				1.42	1.42	58.6			3.1
Sun-17	34.7				1.88	1.88	53.4			3.9
Mon-18	35.0				2.13	2.13	53.4			3.6
Tue-19	33.1				1.91	1.91	51.8			3.4
Wed-20	35.6				1.94	1.94	49.6			3.3
Thu-21	35.2				2.59	2.59	56.8			4.1
Fri-22	33.4				1.98	1.98	53.8			3.4
Sat-23	33.3				2.58	2.58	49.9			4.5
Sun-24	33.2				3.25	3.25	50.1			4.7
Mon-25	32.0				2.80	2.80	52.6			4.5
Tue-26	35.0				1.79	1.79	51.6			3.9
Wed-27	32.7				1.78	1.78	50.2			3.4
Thu-28	33.1				2.93	2.93	52.9			4.8
Fri-29	25.3	39.0			2.95	2.95	54.9	55.6		5.1
Sat-30	32.9	32.3			1.41	1.41	62.2	38.4		3.1
Sun-31	15.0	20.7			1.55	1.55	23.7	28.9		3.5
Average	32.3	31.6			1.67	1.67	52.0	42.7		3.4
Minimum	15.0	20.7			0.60	0.60	23.7	28.9		2.4
Maximum	37.5	39.0			3.25	3.25	62.2	55.6		5.1
GeoMean										
Total										

DATE	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
Fri-01				10.8	100			111				8
Sat-02				9.9	97.9			109				9
Sun-03				9.3	88.6			100				10
Mon-04				8.6	98.5			96.3				10
Tue-05				8.7	102			103	2.2			6
Wed-06	<0.01			9.6	99.5			105				10
Thu-07				9.8	112			105				15
Fri-08				10.1	110			105				8
Sat-09				9.5	93.4			105				12
Sun-10				9.7	94.5			97.2				12
Mon-11				9.2	140			110				7
Tue-12				9.4	98.4			102				12
Wed-13	<0.01			10.4	98.5			100				15
Thu-14		0.15		8.7	112	136		112		1.6		16
Fri-15				9.5	94.9			107				14
Sat-16				9.3	96.1			98.7				10
Sun-17				9.4	96.1			93.2				5
Mon-18				9.3	95			93.5				10
Tue-19				9.3	93.8			90.3				8
Wed-20	<0.01			10.0	100			96.7				15
Thu-21				10.9	90.1			98.6	2.0			16
Fri-22				10.3	98.3			96				18
Sat-23				10.4	89.6			98.5				11
Sun-24				9.9	89.7			90.8				2
Mon-25				9.3	94.3			89				14
Tue-26				9.4	91.3			95.5				10
Wed-27	<0.01			8.3	89.8			94.7				13
Thu-28				9.5	89			94.3				19
Fri-29				9.7	86.7			93.6		2.5		10
Sat-30				7.9	85.8			92.9		1.4		9
Sun-31		0.26		7.6	53.4	55.7		80.9		2.0		13
Average	<0.01	0.21		9.5	96	96		99				
Minimum	<0.01	0.15		7.6	53	56		81	2.0	1.0		2
Maximum	<0.01	0.26		10.9	140	136		112	2.2	4.2		19
GeoMean									2.1	2.0		10
Total												

Digested SludgeTotal Monthly Volume (ML):	75.9

Enhanced Primary Treatment (EPT) Usage

Total Bypass (hr)	EPT Usage (hr)	% Usage
26	26	100%

AEP Comments

Reference #	Comments

Report Comments

Collection Date	Location	Test	Comment
5/6/2026	RAW	BOD	*Sample dilutions show more than 30% between highest and lowest value*
5/18/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
5/20/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
5/21/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
5/23/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
5/25/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
5/26/2026	OUTFALL10	CO_FE_MF	The incubation temparature was out of range 44.04 degree (44.3 - 44.7), results accepted
5/29/2026	RAW	TSSVSS	Visually Heavy

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 Jun 23, 2026 11:26