PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
October 2025

Digested Sludge: Total Monthly Volume (ML)	66.5

Volume of Flow (ML)

DATE	Peak Flow (ML/D)	Influent: INFs	Effluent: Non UV Disinfected: RAW	UV Disinfected: OUTFALL 30	UV Disinfected: OUTFALL 20	UV Disinfected: MPW	UV Disinfected: EPBPS	UV Disinfected: OUTFALL 10: FEC	UV Disinfected: OUTFALL 10: FE
Wed-01	338.3	0.0	280.5	0.0	0.0	11.0	0.0	269.5	269.5
Thu-02	355.9	0.0	302.0	0.0	0.0	12.2	0.0	289.8	289.8
Fri-03	335.4	0.0	274.6	0.0	0.0	12.6	0.0	262.0	262.0
Sat-04	321.4	0.0	273.9	0.0	0.0	12.9	0.0	261.0	261.0
Sun-05	330.5	0.0	281.0	0.0	0.0	12.2	0.0	268.8	268.8
Mon-06	326.6	0.0	277.0	0.0	0.0	12.2	0.0	264.8	264.8
Tue-07	328.5	0.0	273.0	0.0	0.0	13.0	0.0	260.0	260.0
Wed-08	327.4	0.0	272.7	0.0	0.0	13.3	0.0	259.4	259.4
Thu-09	327.2	0.0	274.2	0.0	0.0	12.6	0.0	261.6	261.6
Fri-10	343.3	0.0	269.3	0.0	0.0	11.9	0.0	257.4	257.4
Sat-11	372.8	0.0	283.0	0.0	0.0	12.1	0.0	270.9	270.9
Sun-12	338.7	0.0	278.5	0.0	0.0	12.3	0.0	266.2	266.2
Mon-13	345.7	0.0	280.5	0.0	0.0	11.3	0.0	269.2	269.2
Tue-14	477.6	0.0	273.6	0.0	0.0	10.9	0.0	262.7	262.7
Wed-15	330.1	0.0	277.6	0.0	0.0	11.1	0.0	266.5	266.5
Thu-16	323.3	0.0	264.9	0.0	0.0	11.4	0.0	253.5	253.5
Fri-17	325.6	0.0	271.5	0.0	0.0	11.4	0.0	260.1	260.1
Sat-18	320.1	0.0	273.1	0.0	0.0	11.8	0.0	261.3	261.3
Sun-19	361.2	0.0	277.1	0.0	0.0	12.7	0.0	264.4	264.4
Mon-20	330.0	0.0	282.1	0.0	0.0	12.6	0.0	269.5	269.5
Tue-21	323.1	0.0	274.0	0.0	0.0	11.8	0.0	262.2	262.2
Wed-22	343.9	0.0	274.5	0.0	0.0	12.4	0.0	262.1	262.1
Thu-23	335.1	0.0	274.8	0.0	0.0	12.5	0.0	262.3	262.3
Fri-24	334.0	0.0	276.2	0.0	0.0	11.3	0.0	264.9	264.9
Sat-25	441.0	0.0	300.3	1.4	0.0	11.9	0.0	287.0	287.0
Sun-26	1,116.3	0.0	417.3	78.9	0.0	11.5	0.0	326.9	326.9
Mon-27	397.1	0.0	317.8	0.0	0.0	11.6	0.0	306.2	306.2
Tue-28	343.5	0.0	283.5	0.0	0.0	11.6	0.0	271.9	271.9
Wed-29	341.2	0.0	282.2	0.0	0.0	11.6	0.0	270.6	270.6
Thu-30	423.5	0.0	271.2	0.0	0.0	11.7	0.0	259.5	259.5
Fri-31	394.4	0.0	267.9	0.0	0.0	11.6	0.0	256.3	256.3
Average	375.9	0.0	283.2	2.6	0.0	12.0	0.0	268.7	268.7
Minimum	320.1	0.0	264.9	0.0	0.0	10.9	0.0	253.5	253.5
Maximum	1,116.3	0.0	417.3	78.9	0.0	13.3	0.0	326.9	326.9
Geoffean	---	---	---	---	---	---	---	---	---
TOTAL	---	0	8,780	80	0	371	0	8,328	8,328

Liquid Stream Quality

DATE	pH@25°C: RAW	pH@25°C: OUTFALL 30	pH@25°C: OUTFALL 20	pH@25°C: OUTFALL 10: FEC
Wed-01	7.5			7.6
Thu-02	7.4			7.5
Fri-03	7.5			7.5
Sat-04	7.6			7.6
Sun-05	7.5			7.5
Mon-06	7.5			7.7
Tue-07	7.5			7.7
Wed-08	7.6			7.6
Thu-09	7.5			7.6
Fri-10	7.5			7.6
Sat-11	7.5			7.6
Sun-12	7.6			7.6
Mon-13	7.5			7.5
Tue-14	7.5			7.6
Wed-15	7.5			7.7
Thu-16	7.5			7.6
Fri-17	7.6			7.7
Sat-18	7.6			7.7
Sun-19	7.6			7.6
Mon-20	7.5			7.6
Tue-21	7.5			7.9
Wed-22	7.5			7.7
Thu-23	7.6			7.7
Fri-24	7.6			7.8
Sat-25	7.6	7.8		7.8
Sun-26	7.4	7.3		7.6
Mon-27	7.5			7.6
Tue-28	7.6			7.9
Wed-29	7.5			7.8
Thu-30	7.5			7.6
Fri-31	7.6			7.8
Average	7.5	7.5	---	7.6
Minimum	7.4	7.3	---	7.5
Maximum	7.6	7.8	---	7.9
Geoffean	---	---	---	---
TOTAL	---	---	---	---

DATE	TSS (mg/L): RAW	TSS (mg/L): OUTFALL 30	TSS (mg/L): OUTFALL 20	TSS (mg/L): EPBPS	TSS (mg/L): OUTFALL 10: FEC	TSS (mg/L): OUTFALL 10: FE
Wed-01	444				3.0	3.0
Thu-02	368				2.5	2.5
Fri-03	320				2.8	2.8
Sat-04	340				4.0	4.0
Sun-05	340				3.6	3.6
Mon-06	316				4.2	4.2
Tue-07	496				4.5	4.5
Wed-08	444				5.3	5.3
Thu-09	360				4.4	4.4
Fri-10	312				4.2	4.2
Sat-11	352				4.0	4.0
Sun-12	320				3.9	3.9
Mon-13	328				4.7	4.7
Tue-14	320				4.2	4.2
Wed-15	328				4.4	4.4
Thu-16	312				4.3	4.3
Fri-17	376				4.2	4.2
Sat-18	444				5.6	5.6
Sun-19	400				4.4	4.4
Mon-20	368				5.4	5.4
Tue-21	384				5.0	5.0
Wed-22	420				5.2	5.2
Thu-23	444				5.2	5.2
Fri-24	452				5.2	5.2
Sat-25	372	176			5.1	5.1
Sun-26	388	115			5.5	5.5
Mon-27	320				5.3	5.3
Tue-28	352				6.7	6.7
Wed-29	376				4.6	4.6
Thu-30	436				4.4	4.4
Fri-31	376				4.9	4.9
Average	374	146	---	---	4.5	4.5
Minimum	312	115	---	---	2.5	2.5
Maximum	496	176	---	---	6.7	6.7
Geoffean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	BOD_5/$cBOD_5$ (mg/L): RAW	BOD_5: OUTFALL 30	BOD_5: OUTFALL 20	BOD_5: EPEPS	$cBOD_5$: OUTFALL 10: FEC	$cBOD_5$: OUTFALL 10: FE
Wed-01	256				3	3
Thu-02	263				3	3
Fri-03	277				3	3
Sat-04	291				3	3
Sun-05	250				3	3
Mon-06	234				3	3
Tue-07	322				3	3
Wed-08	302				3	3
Thu-09	277				2	2
Fri-10	275				3	3
Sat-11	266				3	3
Sun-12	265				3	3
Mon-13	279				3	3
Tue-14	285				4	4
Wed-15	305				4	4
Thu-16	305				3	3
Fri-17	324				3	3
Sat-18	367				3	3
Sun-19	248				3	3
Mon-20	271				3	3
Tue-21	231				3	3
Wed-22	268				3	3
Thu-23	268				3	3
Fri-24	290				3	3
Sat-25	268	180			4	4
Sun-26	206	92			4	4
Mon-27	281				4	4
Tue-28	311				4	4
Wed-29	263				4	4
Thu-29	326				4	4
Fri-31	312				3	3
Average	282	136	---	---	3.2	3.2
Minimum	206	92	---	---	2	2
Maximum	367	180	---	---	4	4
Geoffean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	TP (mg/L): RAW	TP (mg/L): OUTFALL 30	TP (mg/L): OUTFALL 20	TP (mg/L): EPBPS	TP (mg/L): OUTFALL 10: FEC	TP (mg/L): OUTFALL 10: FE
Wed-01	7.59				0.24	0.24
Thu-02	6.89				0.25	0.25
Fri-03	7.58				0.25	0.25
Sat-04	8.01				0.24	0.24
Sun-05	8.52				0.25	0.25
Mon-06	7.52				0.20	0.20
Tue-07	8.99				0.17	0.17
Wed-08	8.58				0.22	0.22
Thu-09	8.33				0.24	0.24
Fri-10	7.80				0.25	0.25
Sat-11	7.93				0.19	0.19
Sun-12	5.70				0.24	0.24
Mon-13	8.66				0.25	0.25
Tue-14	8.71				0.26	0.26
Wed-15	8.28				0.28	0.28
Thu-16	8.19				0.27	0.27
Fri-17	8.66				0.26	0.26
Sat-18	8.65				0.26	0.26
Sun-19	7.67				0.26	0.26
Mon-20	8.00				0.24	0.24
Tue-21	8.19				0.50	0.50
Wed-22	8.23				0.23	0.23
Thu-23	9.66				0.32	0.32
Fri-24	9.13				0.30	0.30
Sat-25	8.29	7.54			0.38	0.38
Sun-26	5.96	2.58			0.30	0.30
Mon-27	7.52				0.29	0.29
Tue-28	8.27				0.44	0.44
Wed-29	8.62				0.27	0.27
Thu-29	8.71				0.26	0.26
Fri-31	9.00				0.23	0.23
Average	8.19	5.06	---	---	0.27	0.27
Minimum	5.70	2.58	---	---	0.17	0.17
Maximum	9.66	7.54	---	---	0.50	0.50
Geoffean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	NH3-N (mg/L): RAW	NH3-N (mg/L): OUTFALL 30	NH3-N (mg/L): OUTFALL 20	NH3-N (mg/L): EPBPS	NH3-N (mg/L): OUTFALL 10: FEC	NH3-N (mg/L): OUTFALL 10: FE
Wed-01	41.1				0.94	0.94
Thu-02	38.0				0.41	0.41
Fri-03	40.3				0.35	0.35
Sat-04	41.0				0.70	0.70
Sun-05	44.3				1.00	1.00
Mon-06	43.6				0.62	0.62
Tue-07	44.4				0.61	0.61
Wed-08	43.7				0.64	0.64
Thu-09	44.5				0.68	0.68
Fri-10	43.0				0.71	0.71
Sat-11	41.9				0.86	0.86
Sun-12	43.6				1.29	1.29
Mon-13	46.0				1.50	1.50
Tue-14	43.9				1.25	1.25
Wed-15	45.2				0.89	0.89
Thu-16	44.1				0.58	0.58
Fri-17	43.4				0.46	0.46
Sat-18	44.0				0.50	0.50
Sun-19	43.0				0.67	0.67
Mon-20	41.2				0.56	0.56
Tue-21	41.8				0.23	0.23
Wed-22	40.6				0.23	0.23
Thu-23	41.5				0.29	0.29
Fri-24	40.6				0.41	0.41
Sat-25	38.2	33.0			0.45	0.45
Sun-26	25.1	16.9			0.21	0.21
Mon-27	38.0				2.59	2.59
Tue-28	42.4				3.34	3.34
Wed-29	42.4				2.35	2.35
Thu-29	42.4				1.85	1.85
Fri-31	39.8				2.35	2.10
Average	41.7	25.0	---	---	0.95	0.95
Minimum	25.1	16.9	---	---	0.21	0.21
Maximum	46.0	33.0	---	---	3.34	3.34
Geoffean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	un-Ionized NH3-N (mg/L): OUTFALL 30	un-Ionized NH3-N (mg/L): OUTFALL 20	un-Ionized NH3-N (mg/L): OUTFALL 10
Wed-01			
Thu-02			
Fri-03			
Sat-04			
Sun-05			
Mon-06			
Tue-07			
Wed-08			
Thu-09			
Fri-10			
Sat-11			
Sun-12			
Mon-13			
Tue-14			
Wed-15			
Thu-16			
Fri-17			
Sat-18			
Sun-19			
Mon-20			
Tue-21			
Wed-22			
Thu-23			
Fri-24			
Sat-25			
Sun-26			
Mon-27			
Tue-28			
Wed-29			
Thu-29			
Fri-31			
Average	---	---	---
Minimum	---	---	---
Maximum	---	---	---
Geoffean	---	---	---
TOTAL	---	---	---

DATE	TKN (mg/L): RAW	TKN (mg/L): OUTFALL 30	TKN (mg/L): OUTFALL 20	TKN (mg/L): OUTFALL 10: FEC
Wed-01	61.0			2.4
Thu-02	65.3			2.0
Fri-03	56.7			1.9
Sat-04	64.8			2.1
Sun-05	67.1			2.6
Mon-06	58.1			2.1
Tue-07	67.0			1.2
Wed-08	62.8			1.8
Thu-09	58.0			2.0
Fri-10	57.0			2.2
Sat-11	56.6			2.1
Sun-12	60.8			2.7
Mon-13	68.4			2.9
Tue-14	69.3			2.7
Wed-15	62.7			2.3
Thu-16	61.3			2.0
Fri-17	62.4			1.9
Sat-18	66.9			2.2
Sun-19	56.9			2.2
Mon-20	59.8			1.8
Tue-21	58.7			1.4
Wed-22	59.3			1.4
Thu-23	60.9			1.8
Fri-24	57.0			1.8
Sat-25	54.0	45.2		2.0
Sun-26	37.6	23.1		2.5
Mon-27	56.3			4.1
Tue-28	60.4			5.2
Wed-29	63.8			3.9
Thu-29	63.8			3.2
Fri-31	65.0			3.2
Average	59.8	34.2	---	2.4
Minimum	37.6	23.1	---	1.2
Maximum	69.3	45.2	---	5.2
Geoffean	---	---	---	---
TOTAL	---	---	---	---

DATE	NO_3+NO_2 (mg/L): RAW	NO_3+NO_2 (mg/L): OUTFALL 30	NO_3+NO_2 (mg/L): OUTFALL 20	NO_3+NO_2 (mg/L): OUTFALL 10: FEC
Wed-01	< 0.01			9.7
Thu-02				8.8
Fri-03				8.7
Sat-04				9.5
Sun-05				10.1
Mon-06				9.5
Tue-07				9.4
Wed-08	< 0.01			9.6
Thu-09				9.8
Fri-10				9.8
Sat-11				9.8
Sun-12				9.2
Mon-13				9.7
Tue-14				9.7
Wed-15	< 0.01			9.8
Thu-16				10.6
Fri-17				10.7
Sat-18				10.6
Sun-19				11.6
Mon-20				10.8
Tue-21				10.0
Wed-22	< 0.01			10.2
Thu-23				10.0
Fri-24				9.6
Sat-25		0.28		9.0
Sun-26		0.49		6.1
Mon-27				6.4
Tue-28				6.1
Wed-29	< 0.01			7.1
Thu-29				6.5
Fri-31				7.5
Average	< 0.01	0.39	---	9.3
Minimum	< 0.01	0.28	---	6.1
Maximum	< 0.01	0.49	---	11.6
Geoffean	---	---	---	---
TOTAL	---	---	---	---

DATE	Chloride (mg/L): RAW	Chloride (mg/L): OUTFALL 30	Chloride (mg/L): OUTFALL 20	Chloride (mg/L): OUTFALL 10: FEC
Wed-01	82.1			86.1
Thu-02	83.4			83.8
Fri-03	80.7			84.1
Sat-04	75.4			84.0
Sun-05	76.3			77.7
Mon-06	81.3			78.6
Tue-07	82.1			82.5
Wed-08	82.5			83.9
Thu-09	83.8			84.2
Fri-10	84.9			87.3
Sat-11	80.8			83.9
Sun-12	75.8			77.1
Mon-13	74.6			78.4
Tue-14	81.2			78.8
Wed-15	85.1			84.3
Thu-16	82.1			87.3
Fri-17	72.9			85.1
Sat-18	69.1			83.7
Sun-19	70.4			78.6
Mon-20	72.7			75.0
Tue-21	77.6			81.7
Wed-22	81.0			85.6
Thu-23	75.7			84.9
Fri-24	78.0			86.4
Sat-25	65.2	59.8		80.7
Sun-26	49.3	37.5		66.2
Mon-27	73.9			67.9
Tue-28	71.7			75.1
Wed-29	73.1			79.1
Thu-29	72.4			84.6
Fri-31	71.5			81.7
Average	76	49	---	81.2
Minimum	49.3	38	---	66.2
Maximum	85	60	---	87.3
Geoffean	---	---	---	---
TOTAL	---	---	---	---

DATE	*E. coli* (Counts/100 mL): RAW	*E. coli*: X30*6	*E. coli*: X20*6	*E. coli*: X10*6	*E. coli*: FEC
Wed-01					6
Thu-02					3
Fri-03					8
Sat-04					7
Sun-05					6
Mon-06					11
Tue-07					6
Wed-08					12
Thu-09					13
Fri-10					5
Sat-11					2
Sun-12					14
Mon-13					11
Tue-14					9
Wed-15					9
Thu-16					5
Fri-17					6
Sat-18					10
Sun-19					6
Mon-20	5.3				2
Tue-21					9
Wed-22					4
Thu-23					6
Fri-24					5
Sat-25		> 80			2
Sun-26		4.4			12
Mon-27					21
Tue-28					11
Wed-29					6
Thu-29					9
Fri-31					18
Average					
Minimum	5.3	4.4	---	---	2
Maximum	5.3	> 80.0	---	---	21
Geoffean	5.3	18.8	---	---	7
TOTAL	---	---	---	---	---

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

Enhanced Primary Treatment (EPT) Usage					
Total Bypass (hr)	EPT Usage (hr)	% Usage	Total Bypass YTD (hr)	EPT Usage YTD (hr)	% Usage YTD
10	10	100%	468	468	100%

Report Comments

25-Oct-25	Outfall 30 E. Coli results significantly higher than average due to suspected laboratory dilution error. Unable to retest.

AEP Ref #

RAW	Untreated Influent into the plant
INF	Untreated wastewater from collection system
INFs	Influent, screened at the Headworks Diversion Structure
PE	Primary Effluent from conventional primaries
PE 30	Primary Effluent from conventional primaries discharged via Outfall 30
EPT	Enhanced Primary Treatment
EPE	Enhanced Primary Effluent
EPEPS	Enhanced Primary Effluent Pump Station
FE	Final Effluent from secondary treatment process (with biological nutrient removal). Pre-Ultraviolet disinfection.

FEC	Combined post-UV disinfection (FE+EPEPS)
OUTFALL 10	UV-disinfected, discharged via OUTFALL 10
OUTFALL 20	Combined Bypass (RAW + PE + EPE)
OUTFALL 30	Combined Bypass (INF + INFS + PE30 + EPE)
MPW	Membrane Product Water (Effluent re-use water)
ML	Megalitre (1,000,000 Litre)
MPN	Most Probable Number
NR	No Result
NS	No Sample
INS	Insufficient Sample
AEP	Alberta Environment & Parks

Jamie Gingrich P.Eng.
Senior Manager, WWTP Operations

Paul Jacquier MBA, BMSc.
Senior Manager, Analytical Operations