PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
April 2016

Digested Sludge: Total Monthly Volume (ML)	62.33

DATE	Peak Flow (MLD)	Volume of Flow (ML)						pH@25°C			TSS (mg/L)					BOD$_5$/cBOD$_5$ (mg/L)					TP (mg/L)					NH3-N (mg/L)					TKN (mg/L)			NO$_2$+NO$_3$ (mg/L)			Chloride (mg/L)			*E. coli* (Counts/100 mL)		
		Influent	Effluent																																						
			Non UV Disinfected		UV Disinfected																																				
			OUT-FAL30 BYPASS	MPW	EPEPS	OUTFAL 10																																				
		RAW				FEC	FE	RAW	OUT-FAL30	OUT-FAL 10 FEC	RAW	OUT-FAL30	EPEPS	OUTFAL 10 FEC	OUTFAL 10 FE	RAW	OUT-FAL30	EPEPS	OUTFAL 10 cBOD$_5$	OUTFAL 10 cBOD$_5$	RAW	OUT-FAL30	EPEPS	OUTFAL 10 FEC	OUTFAL 10 FE	RAW	OUT-FAL30	EPEPS	OUTFAL 10 FEC	OUTFAL 10 FE	RAW	OUT-FAL30	OUT-FAL10 FEC	RAW	OUT-FAL30	OUT-FAL10 FEC	RAW	OUT-FAL30	OUT-FAL10 FEC	RAW	OUT-FAL30	OUT-FAL10 FEC
Fri 01	347.25	244.46	0.00	9.31		235.15	235.15	7.5		7.5	242			3.4	3.4	272			< 2	< 2	7.16			0.18	0.18	37.5			1.90	1.90	54.4		3.64			9.7	76		85			4
Sat 02	360.39	242.85	0.00	10.22		232.63	232.63	7.6		7.6	260			2.4	2.4	300			2	2	8.17			0.38	0.38	37.3			2.18	2.18	56.9		3.98			10.4	67		79			5
Sun 03	366.02	242.84	0.00	8.79		234.05	234.05	7.6		7.6	270			2.8	2.8	274			2	2	7.48			0.30	0.30	38.0			2.40	2.40	57.2		4.02			9.7	65		73			4
Mon 04	348.60	248.92	0.00	9.23		239.69	239.69	7.6		7.5	258			3.5	3.5	292			2	2	6.65			0.18	0.18	37.0			2.40	2.40	53.7		3.87			11.0	72		72			7
Tue 05	388.27	263.39	0.00	9.47		253.92	253.92	7.6		7.5	294			3.2	3.2	255			2	2	7.58			0.35	0.35	34.4			1.91	1.91	48.0		2.97			10.5	91		87			17
Wed 06	345.74	245.30	0.00	10.91		234.39	234.39	7.5		7.5	272			3.5	3.5	267			2	2	7.35			0.19	0.19	37.0			1.24	1.24	56.5		2.86	< 0.10		10.1	72		84	3.0		9
Thu 07	337.94	243.27	0.00	10.83		232.44	232.44	7.6		7.6	264			3.5	3.5	352			3	3	7.04			0.20	0.20	36.9			1.60	1.60	55.0		3.06			10.7	69		79			5
Fri 08	337.35	244.29	0.00	10.99		233.30	233.30	7.6		7.6	296			3.3	3.3	286			3	3	7.54			0.21	0.21	37.7			1.38	1.38	55.9		2.99			10.7	70		77			3
Sat 09	357.31	241.27	0.00	10.24		231.03	231.03	7.6		7.6	294			3.3	3.3	346			3	3	6.98			0.24	0.24	38.8			1.53	1.53	55.2		3.09			10.4	64		75			3
Sun 10	359.05	241.37	0.00	9.85		231.52	231.52	7.6		7.5	229			3.2	3.2	280			3	3	6.94			0.20	0.20	39.5			1.88	1.88	55.0		3.83			10.9	65		69			9
Mon 11	376.68	246.36	0.00	8.91		237.45	237.45	7.6		7.5	268			4.5	4.5	311			3	3	6.74			0.23	0.23	39.2			2.15	2.15	55.3		4.06			11.1	68		68			9
Tue 12	329.15	239.60	0.00	9.68		229.92	229.92	7.5		7.5	232			4.0	4.0	277			3	3	6.80			0.21	0.21	37.7			0.87	0.87	55.3		2.61			11.1	73		79			6
Wed 13	331.70	247.47	0.00	10.74		236.73	236.73	7.5		7.6	251			4.6	4.6	281			3	3	7.18			0.26	0.26	34.1			0.47	0.47	55.4		2.52	< 0.01		10.8	70		78			5
Thu 14	339.15	247.90	0.00	9.67		238.23	238.23	7.6		7.6	250			* 4.6	4.6	259			3	3	7.05			0.26	0.26	37.5			1.60	1.60	55.6		3.49			9.6	73		79			6
Fri 15	331.36	235.85	0.00	10.01		225.84	225.84	7.6		7.6	235			4.2	4.2	291			4	4	6.88			0.25	0.25	36.0			1.64	1.64	54.1		3.60			10.4	67		81			7
Sat 16	344.51	232.30	0.00	10.00		222.30	222.30	7.7		7.6	230			6.5	6.5	275			4	4	7.32			0.30	0.30	37.2			1.48	1.48	58.6		3.50			11.5	68		74			7
Sun 17	356.00	240.67	0.00	9.82		230.85	230.85	7.6		7.7	246			6.0	6.0	259			3	3	6.30			0.30	0.30	38.2			2.61	2.61	55.8		4.70			10.6	63		72			250
Mon 18	339.57	244.71	0.00	9.96		234.75	234.75	7.7		7.6	228			4.4	4.4	362			4	4	7.02			0.22	0.22	38.0			1.95	1.95	60.6		4.59			10.5	72		70	3.1		11
Tue 19	327.97	244.78	0.00	9.70		235.08	235.08	7.6		7.7	229			3.5	3.5	290			3	3	6.36			0.27	0.27	37.2			0.99	0.99	53.6		2.71			10.4	78		80			2
Wed 20	343.71	245.73	0.00	9.99		235.74	235.74	7.6		7.6	246			3.6	3.6	288			3	3	7.11			0.26	0.26	38.1			0.33	0.33	58.6		2.08	0.03		11.8	77		84			3
Thu 21	396.08	245.60	0.00	9.82		235.78	235.78	7.6		7.6	240			3.3	3.3	259			3	3	6.76			0.22	0.22	36.2			0.30	0.30	56.8		1.96			12.3	73		86			8
Fri 22	391.87	247.90	0.00	10.31		237.59	237.59	7.6		7.6	248			3.9	3.9	298			2	2	6.76			0.24	0.24	36.8			0.28	0.28	57.2		1.91			11.7	72		86			5
Sat 23	573.25	257.97	6.46	10.66		240.85	240.85	7.7		7.6	312			4.1	4.1	265			3	3	6.62			0.23	0.23	36.4			0.76	0.76	55.5		2.48			12.4	74		82			10
Sun 24	598.94	313.70	29.37	11.87		272.46	272.46	7.5	7.5	7.5	288	44		3.8	3.8	310	95		3	3	5.70	1.84		0.21	0.21	30.1	25.3		1.51	1.51	46.8	29.5	3.14		0.504	10.9	67	82	76		0.8	15
Mon 25	346.33	251.87	0.00	11.27		240.60	240.60	7.6		7.6	268			3.5	3.5	248			3	3	6.25			0.20	0.20	34.2			1.39	1.39	54.4		3.12			11.6	71		71	4.0		9
Tue 26	363.84	248.90	0.00	10.82		238.08	238.08	7.6		7.6	312			4.2	4.2	286			3	3	6.67			0.22	0.22	37.1			0.50	0.50	53.2		2.00			11.9	72		82			4
Wed 27	437.32	186.44	0.00	9.08		177.36	177.36	7.6		7.7	246			3.5	3.5	281			3	3	7.38			0.41	0.41	34.8			0.24	0.24	59.6		1.92	0.03		11.7	74		80			5
Thu 28	415.64	245.21	0.00	11.10		234.11	234.11	7.6		7.5	226			2.6	2.6	290			3	3	7.02			0.24	0.24	40.7			0.25	0.25	56.8		1.78			12.0	70		79			10
Fri 29	472.39	244.94	0.00	12.33		232.61	232.61	7.7		7.4	256			3.2	3.2	332			3	3	7.30			0.21	0.21	40.2			0.21	0.21	60.4		1.80			12.8	75		75			9
Sat 30	352.31	239.86	0.00	11.57		228.29	228.29	7.7		7.4	246			3.3	3.3	249			3	3	6.57			0.22	0.22	37.9			0.54	0.54	55.4		2.33			12.4	69		77			4
Average	377.19	245.52	1.19	10.24	---	234.09	234.09	7.6	7.5	7.6	258	44	---	3.8	3.8	288	95	---	3	3	6.96	1.84	---	0.25	0.25	37.1	25.3	---	1.28	1.28	55.6	29.5	3.02	0.04	0.504	11.05	71	82	78	---	---	---
Minimum	327.97	186.44	0.00	8.79	0.00	177.36	177.36	7.5	7.5	7.4	226	44	---	2.4	2.4	248	95	---	< 2	< 2	5.70	1.84	---	0.18	0.18	30.1	25.3	---	0.21	0.21	46.8	29.5	1.78	< 0.01	0.504	9.64	63	82	68	3.0	0.8	2
Maximum	598.94	313.70	29.37	12.33	0.00	272.46	272.46	7.7	7.5	7.7	312	44	---	6.5	6.5	362	95	---	4	4	8.17	1.84	---	0.41	0.41	40.7	25.3	---	2.61	2.61	60.6	29.5	4.70	0.10	0.504	12.80	91	82	87	4.0	0.8	250
GeoMean	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.3	0.8	7
TOTAL	---	7,366	36	307	0	7,023	7,023	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* contact Laboratory for information about the quality assurance associated with the result

! The values in EPE (flow) column indicate wet weather events, then the OUT FAL 10 Average calculation exclude numbers for that day (grey/italics)

Enhanced Primary Treatment (EPT) Usage					
Total Bypass (hrs)	EPT Usage (hrs)	% Usage	Total Bypass YTD (hrs)	EPT Usage YTD	% Usage
5	5	100%	40	40	100.00%

Report Comments

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 OUTFAL 30
EPT ⇨ Enhanced Primary Treatment
EPE ⇨ Enhanced Primary Effluent
EPEPS ⇨ Enhanced Primary Effluent and Pump Station
FE ⇨ Final Effluent from secondary treatment process (with biological nutrient removal). Pre-ultraviolet disinfection.
FEC ⇨ Combined pre - UV disinfection (FE+EPEPS)
OUT FAL 10 ⇨ UV-disinfected, discharged via OUTFAL 10
OUT FAL 20 ⇨ Combined Bypass (RAW + PE + EPE)
OUT FAL 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

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