

Woodward WWTP Bypass and CSO Overflow Log
2022

SAC #	Event #	Location	Start		Stop		Duration Hours	Volume ML	Disinfection Yes / No	Reason Code	Sample Results					Final Effluent	
			Date yyyy-mm-dd	Time	Date yyyy-mm-dd	Time					TBOD mg/L	cBOD mg/L	TSS mg/L	TP mg/L	E.coli CFU/100ml	pH	Total Cl mg/L
220202-000000	1	HCG03	2022-02-02	15:34	2022-02-02	19:49	3.42	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220202-000002	2	HCG14	2022-02-02	19:12	2022-02-02	20:21	1.16	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220211-000001	3	HCG03	2022-02-11	15:49	2022-02-11	20:06	2.71	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220217-000002	4	HCG03	2022-02-17	03:29	2022-02-17	19:02	11.97	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220217-000003	5	DC011	2022-02-17	04:06	2022-02-17	16:04	0.28	0.070	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1N63O2	6	S	2022-02-17	05:08	2022-02-19	01:51	44.71	541.728	No	1,2,7	62	n/a	83.4	1.61	755,000	7.24	n/a
220217-000007	7	HCG14	2022-02-17	06:40	2021-02-17	06:48	0.13	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	8	HCS08	2022-02-17	07:12	2022-02-17	20:35	13.37	4.850	No	1,2,7	n/a	8	260	0.51	38,800	n/a	n/a
220217-000010	9	HCG04	2022-02-17	07:37	2021-02-17	12:58	5.35	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	10	HCS01	2022-02-17	07:45	2022-02-18	01:56	18.18	230.986	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	11	HCS04	2022-02-17	08:15	2022-02-17	21:10	12.92	15.565	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1M8JOD	12	HC060	2022-02-17	11:07	2022-02-18	04:49	17.70	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220222-000001	13	HCG03	2022-02-22	13:43	2022-02-22	22:33	4.94	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220222-000004	14	DC011	2022-02-22	15:01	2022-02-22	15:57	0.05	0.010	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220222-000007	15	S	2022-02-22	15:36	2022-02-24	00:21	32.73	327.240	No	1,2,7	51	n/a	59.6	1.32	1,192,000	6.66	n/a
	16	HCS01	2022-02-22	23:45	2022-02-23	15:43	15.98	96.289	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	17	HCS08	2022-02-23	00:58	2022-02-23	09:13	8.24	1.400	No	1,2,7	n/a	6	92.6	0.29	38,700	n/a	n/a
	18	HCS04	2022-02-23	02:25	2022-02-24	02:03	23.63	58.831	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220306-000000	19	HCG03	2022-03-06	04:59	2022-03-06	05:49	0.83	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1NLXCS	20	S	2022-03-06	14:16	2022-03-06	21:20	7.06	55.983	No	1,2,7	51	n/a	83.0	2.12	1,720,000	7.26	n/a
220307-000002	21	HCG03	2022-03-07	16:06	2022-03-07	16:49	0.71	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220319-000001	22	HCG03	2022-03-19	07:38	2022-03-19	16:42	1.34	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220323-000003	23	HCG03	2022-03-23	17:37	2022-03-24	00:13	4.81	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220323-000005	24	HCG14	2022-03-23	18:57	2022-03-24	00:00	5.05	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1P7L6O	25	S	2022-03-23	21:10	2022-03-24	17:08	19.97	248.256	No	1,7	48	n/a	63.2	1.10	883,333	7.48	n/a
220323-000007	26	DC011	2022-03-23	21:57	2022-03-23	23:29	0.20	0.048	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1P7Q08	27	HW	2022-03-23	23:35	2022-03-24	01:16	1.69	16.080	No	1,7	120	n/a	269	2.93	670,000	7.36	n/a
	28	HCS04	2022-03-23	23:53	2022-03-24	19:41	19.80	57.032	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	29	HCS01	2022-03-24	00:07	2022-03-25	01:21	25.24	134.244	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220330-000003	30	HCG03	2022-03-30	18:25	2022-03-30	18:57	0.53	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220331-000002	31	HCG03	2022-03-31	11:56	2022-03-31	12:06	0.16	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220406-000004	32	HCG03	2022-04-06	20:21	2022-04-06	20:30	0.16	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220415-000002	33	HCG03	2022-04-15	23:44	2022-04-16	01:09	1.41	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220416-000000	34	HCG14	2022-04-16	00:13	2022-04-16	01:15	0.14	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220418-000001	35	HCG03	2022-04-18	16:02	2022-04-18	18:33	2.50	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220418-000002	36	HCG14	2022-04-18	16:48	2022-04-18	18:41	1.85	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220421-000006	37	HCG03	2022-04-21	07:40	2022-04-21	08:44	1.08	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220421-000001	38	HCG14	2022-04-21	08:10	2022-04-21	09:20	1.18	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220425-000007	39	HCG03	2022-04-25	17:16	2022-04-25	21:32	1.66	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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			Date yyyy-mm-dd	Time	Date yyyy-mm-dd	Time					TBOD mg/L	cBOD mg/L	TSS mg/L	TP mg/L	E.coli CFU/100ml	pH	Total Cl mg/L
220425-000008	40	HCG14	2022-04-25	17:36	2022-04-25	22:05	2.00	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220501-000003	41	HCG03	2022-05-01	14:38	2022-05-01	21:45	1.16	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220501-000005	42	HCG14	2022-05-01	21:22	2022-05-01	22:01	0.65	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220503-000006	43	HCG03	2022-05-03	17:29	2022-05-04	05:35	7.32	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220503-000007	44	HCG14	2022-05-03	18:02	2022-05-04	06:00	6.70	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1SFVRL	45	S	2022-05-03	19:30	2022-05-05	00:48	29.31	289.341	No	1,7	64	n/a	70.5	1.31	1,272,500	7.20	n/a
220504-000003	46	DC011	2022-05-04	05:54	2022-05-04	05:55	0.01	0.002	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220504-000009	47	HCS01	2022-05-04	06:12	2022-05-05	01:29	19.28	97.327	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	48	HCS04	2022-05-04	13:50	2022-05-04	15:15	1.42	3.181	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220516-000001	49	HCG03	2022-05-16	07:55	2022-05-16	12:30	0.85	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220516-000002	50	HCG14	2022-05-16	08:02	2022-05-16	08:53	0.85	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220521-000001	51	HCG03	2022-05-21	13:00	2022-05-21	13:21	0.35	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220521-000002	52	HCG14	2022-05-21	13:17	2022-05-21	13:37	0.33	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220528-000000	53	HCG03	2022-05-28	04:36	2022-05-28	05:03	0.44	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220528-000001	54	HCG14	2022-05-28	04:41	2022-05-28	05:17	0.61	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220601-000007	55	HCG14	2022-06-01	14:25	2022-06-01	17:21	1.44	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220601-000002	56	HCG03	2022-06-01	14:47	2022-06-01	17:15	2.01	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220603-000002	57	HCG03	2022-06-03	15:37	2022-06-03	16:03	0.43	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220607-000001	58	HCG03	2022-06-07	7:50	2022-06-07	12:02	2.96	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220607-000002	59	HCG14	2022-06-07	9:02	2022-06-07	12:49	3.77	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1U1J0D	60	S	2022-06-07	9:29	2022-06-07	17:03	7.56	79.128	Yes	1,7	35	n/a	62.6	1.42	1,660,000	6.89	0.00
220616-000002	61	HCG14	2022-06-16	14:02	2022-06-16	15:35	1.56	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1-1V2E36	62	HCG14	2022-06-26	21:00	2022-06-26	22:20	1.33	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220705-000000	63	HCG14	2022-07-05	09:53	2022-07-05	09:54	0.01	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220711-000009	64	HCG14	2022-07-11	21:50	2022-07-12	22:14	0.40	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220718-000001	65	HCG03	2022-07-18	03:41	2022-07-18	07:53	4.19	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220718-000002	66	HCG14	2022-07-18	03:58	2022-07-18	06:34	1.51	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220718-000007	67	S	2022-07-18	07:21	2022-07-18	10:05	2.73	28.062	Yes	1,7	48	n/a	76.7	1.47	1,790,000	7.01	0.00
220720-000006	68	HCG03	2022-07-20	21:27	2022-07-20	22:44	1.29	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220720-000007	69	HCG14	2022-07-20	21:44	2022-07-20	22:42	0.97	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220720-000008	70	S	2022-07-20	23:05	2022-07-21	02:49	3.73	25.087	Yes	1,7	78	n/a	76.0	1.70	4,110,000	7.07	0.00
220724-000005	71	HCG03	2022-07-24	23:04	2022-07-24	23:14	0.17	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220801-000002	72	HCG03	2022-08-01	21:32	2022-08-01	22:07	0.58	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220804-000007	73	HCG14	2022-08-04	17:14	2022-08-04	17:47	0.56	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220804-000006	74	HCG03	2022-08-04	17:06	2022-08-04	17:54	0.80	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220805-000002	75	HCG03	2022-08-05	09:44	2022-08-05	10:09	0.41	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220808-000013	76	HCG03	2022-08-08	13:20	2022-08-08	13:31	0.17	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220821-000001	77	HCG03	2022-08-21	02:07	2022-08-21	04:29	2.10	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220821-000002	78	HCG14	2022-08-21	02:16	2022-08-21	02:59	0.72	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220822-000008	79	HCG03	2022-08-22	18:55	2022-08-22	19:32	0.61	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220912-000004	80	S	2022-09-12	11:30	2022-09-12	13:39	2.16	21.442	Yes	1,7	53	n/a	47.0	1.37	4,610,000	7.16	0.00

Woodward WWTP Bypass and CSO Overflow Log
2022

SAC #	Event #	Location	Start		Stop		Duration Hours	Volume ML	Disinfection Yes / No	Reason Code	Sample Results					Final Effluent	
			Date yyyy-mm-dd	Time	Date yyyy-mm-dd	Time					TBOD mg/L	cBOD mg/L	TSS mg/L	TP mg/L	E.coli CFU/100ml	pH	Total Cl mg/L
220912-000003	81	HCG14	2022-09-12	10:41	2022-09-12	11:46	1.08	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220912-000002	82	HCG03	2022-09-12	10:14	2022-09-12	11:41	1.45	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220918-000003	83	HCG03	2022-09-18	15:15	2022-09-18	15:33	0.30	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220919-000004	84	HCG14	2022-09-19	14:16	2022-09-19	14:41	0.41	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220919-000003	85	HCG03	2022-09-19	14:07	2022-09-19	14:42	0.59	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220921-000006	86	HCG03	2022-09-21	14:59	2022-09-21	15:15	0.27	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220925-000001	87	HCG03	2022-09-25	05:46	2022-09-25	06:17	0.51	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220927-000011	88	HCG03	2022-09-27	14:11	2022-09-27	14:53	0.71	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
220927-000012	89	HCG14	2022-09-27	14:22	2022-09-27	14:38	0.27	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221013-000000	90	HCG03	2022-10-13	01:26	2022-10-13	07:22	2.17	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221026-000000	91	HCG03	2022-10-26	13:23	2022-10-26	13:49	0.43	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221031-000004	92	HCG03	2022-10-31	10:54	2022-10-31	19:25	1.33	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221106-000001	93	HCG03	2022-11-06	00:40	2022-11-06	01:14	0.56	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221111-000002	94	HCG03	2022-11-11	12:30	2022-11-11	15:38	1.63	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221130-000000	95	HCG03	2022-11-30	04:07	2022-11-30	11:18	3.63	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221203-000000	96	HCG03	2022-12-03	09:14	2022-12-03	11:10	1.60	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221215-000002	97	HCG03	2022-12-15	09:46	2022-12-15	20:42	8.85	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221215-000007	98	S	2022-12-15	13:23	2022-12-16	09:18	19.92	41.960	No	1,2,7	84	n/a	142	2.59	1,286,667	6.84	n/a
221222-000003	99	HCG03	2022-12-22	21:26	2022-12-23	08:22	2.34	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
221230-000006	100	HCG03	2022-12-30	23:02	2022-12-31	10:15	2.52	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a

480.86

2,374.14

Legend / Notes

Bypass/Overflow Locations:

PH= Plant bypass
HW= Headworks bypass
PR= Primary bypass
S = Secondary bypass

HCS01 = Greenhill CSO Tank
HCS02 = Strachan St CSO Tank
HCS03 = James St CSO Tank
HCS04 = Main/King CSO Tank
HCS05 = Eastwood CSO Tank
HCS07 = Red Hill CSO Tank
HCS08 = Royal CSO Tank
HCS09 = McMaster CSO Tank

HCG03 = Wentworth CSO Outfall
HCG04 = Strathearne CSO Outfall
HCG14 = Wellington CSO Outfall

HC001 = Parkdale Pump Station
DC011 = Pleasant/Edenbridge Pump Station
DC012 = Pleasant/Sunrise Pump Station

Treatment Levels:

Plant bypass (PH) - no treatment
Headworks bypass (HW) - receives preliminary treatment
Primary bypass (PR) - receives preliminary treatment
Secondary bypass (S) - receives preliminary and primary treatment
CSO tank overflows receive no treatment prior to discharge.

Sample Locations:

Plant: Headworks in front of the barscreens
Primary / Headworks: Inlet of the Primary Clarifiers
Secondary: Outlet of the Primary Clarifiers

Note: a Final Effluent Outfall sample must be collected for all bypass types

Volume Determination:

Bypass flow volumes at the Woodward WWTP are estimated.
CSO tank overflow volumes are measured.
Pumping stations overflow volumes are measured.

Reason Codes:

1. Heavy Precipitation
2. Snow Melt
3. Equipment Failure
4. Equipment Maintenance
5. Sewer Problems
6. Power Failure
7. Exceed Design
8. Other