

Monthly Operating Report

JUNE 2022



Rockland, MA WWTP





July 15, 2022

Mr. David P. Taylor
Rockland Interim Sewer Superintendent
587 Rear Summer Street
Rockland, MA 02370

RE: Rockland Wastewater Facility
Monthly Report—June 2022

Dear Mr. Taylor,

Please see the enclosed June 2022 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract.

Please contact me soon as possible should you have any questions regarding this report.

Sincerely,

Rick Kotouch
Veolia Project Manager

CC: Charles Heshion
Daniel Duross
Sherri Vallie

JUNE 2022 MONTHLY OPERATING REPORT

1. SUMMARY:

- 1) The facility will be reporting **0** exceedance for the month of June 2022
- 2) There was **0** lost time / first aid injuries throughout the month
- 3) The facility treated a total of **59.740** Million Gallons. The average daily flow was **1.991** MGD
- 4) The total rainfall for this reporting period was **3.81"**
- 5) I&I Work is ongoing
- 6) **161** work orders were closed in June, with **13** as corrective maintenance work order and **5** were emergency call outs
- 7) The new NPDES Permit was issued in November 2021 and became effective in February 2022

2. STAFFING:

Current Employee Licenses as of 06/30/2022										
		Hoisting		Wastewater			NEWEA Collections			NEWEA Laboratory
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	7C	I	II	IV	I
Rick Kotouch	Project Manager					X			X	
Megan Kelly-Lynch	Asst. Project Manager	X				X				
Steven Butts	Lab Technician					X				X
Chuck Amaral	Maintenance Foreman				X			X		
Garry Murrill	Operator				X			X		
Dan Sullivan-Xenos	Operator				X					
Max Jackson	Operator			X						
Shaun Chaponis (Part Time Weekends)	Operator				X		X			

3. EMPLOYEE HEALTH AND SAFETY:

The employee that slipped on black ice in the parking lot on 3/2/2022 and returned back to work on 3/21/22 is still working with job duty restrictions.

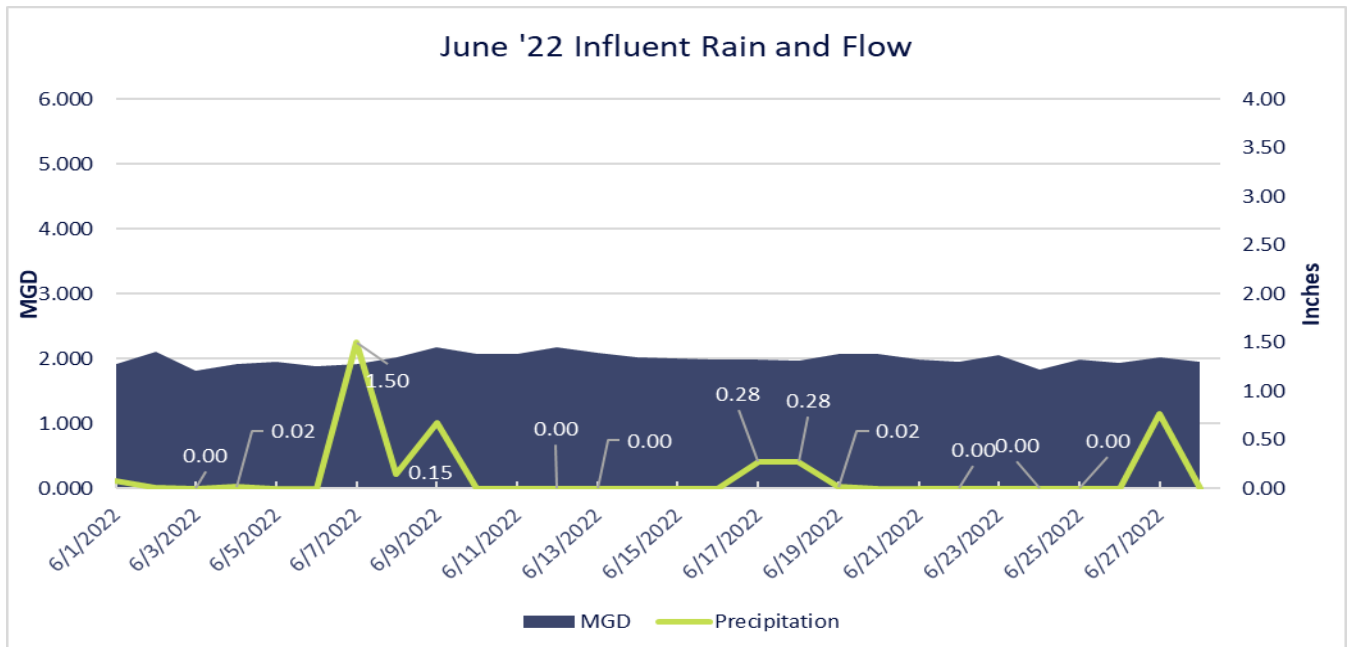
Throughout the COVID-19 (Coronavirus) pandemic in an attempt to continue to serve the Town of Rockland with reliable operations and protect the staff of the Rockland team, Suez/Veolia has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 Delta variant and Omicron rates decrease, Veolia at the Rockland facility has downgraded to a Threat Level 0 guideline as follows:

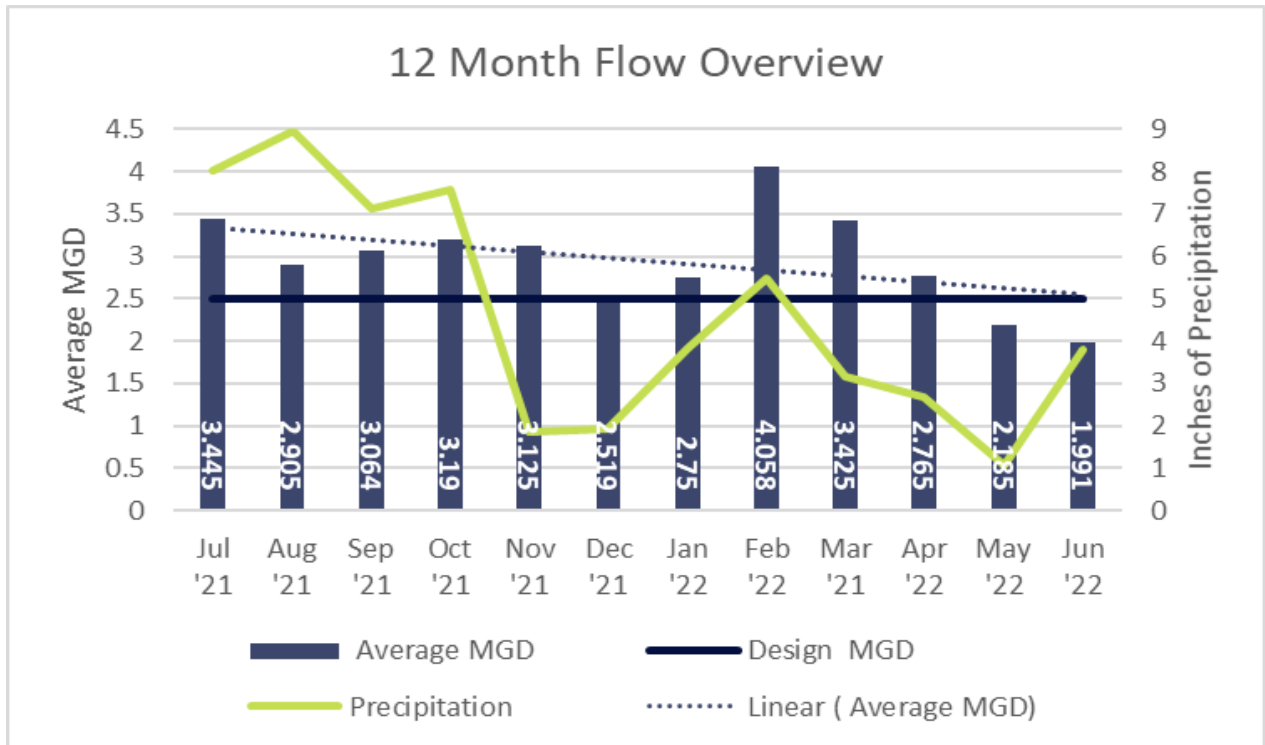
All essential personnel, contractor's and visitor's are screened before entering the premises if they have Covid like symptoms or have been exposed to someone having Covid. Use of common areas/dining areas, in-person meetings and training are now permitted.

4 FLOWS AND LOADINGS:

4.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of **59.740** MG during the month. The daily average flow was **1.991** MGD. This was **0.437** MGD less than the previous June monthly average, which was recorded at **2.428** MGD. The highest daily flow was recorded on June 12 as **2.180** MGD. The lowest daily flow was recorded on June 3 as **1.820** MGD.
- The highest **peak** flow was recorded on June 8 as **3.040** MGD. The lowest instantaneous flow was **0.650** MGD, recorded June 30.
- A total of **3.81** of precipitation was received at the facility. The highest single day precipitation total was recorded on June 7 as **1.50"**
- The coldest day was June 19 at **46°F**. The warmest day was June 26 at **85°F**.





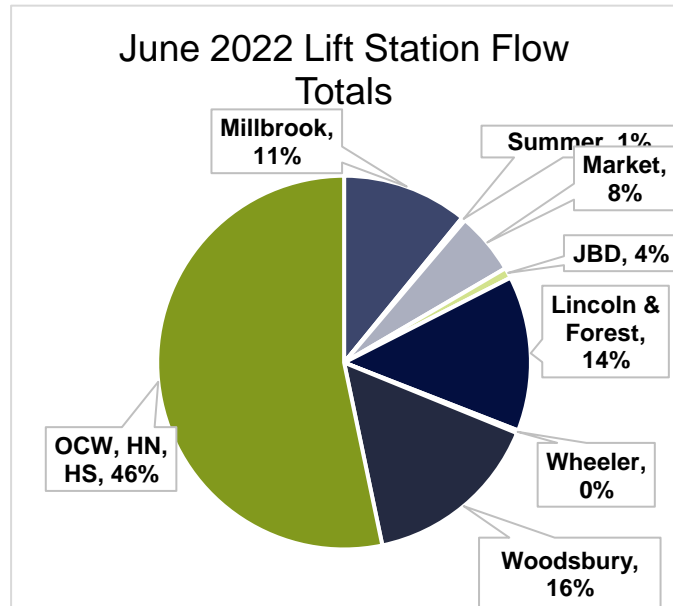
4.1 INFLUENT BOD AND TSS LOADING

Month/Yr	Inf. Flow	Inf BOD	Inf. TSS	Inf. Flow Mov. Avg.	Inf. BOD Mov. Avg.	Inf. TSS Mov. Avg.
	MGD	LBS	LBS	MGD	LBS	LBS
Jul '21	3.445	2,344	3,371	2.569	3,080	3,784
Aug '21	2.905	3,044	4,011	2.683	3,118	3,798
Sep '21	3.064	2,376	4,904	2.809	3,064	3,859
Oct '21	3.19	2,990	3,889	2.936	3,046	3,815
Nov '21	3.125	2,270	3,500	3.015	2,963	3,774
Dec '21	2.519	3,597	3,699	2.938	3,019	3,738
Jan '22	2.750	3,909	3,676	2.931	3,103	3,774
Feb '22	4.058	3,910	3,913	2.993	3,158	3,755
Mar '22	3.425	3,887	4,456	3.055	3,240	3,855
Apr '22	2.765	3,907	4,051	3.024	3,299	3,891
May '22	2.185	3,809	4,229	2.988	3,326	3,909
Jun '22	1.991	4,343	4,006	2.952	3,365	3,975

4.2 LIFT STATION FLOWS

The lift stations accounted for **8,947,406** gallons throughout the month, **15%** of the total plant flow. Please note that monthly lift station flow totals are purely estimates based off of pump run hours and estimated flow rates. Values are not intended to in any way be used as design capacity volumes for potential future rehab / replacement projects.

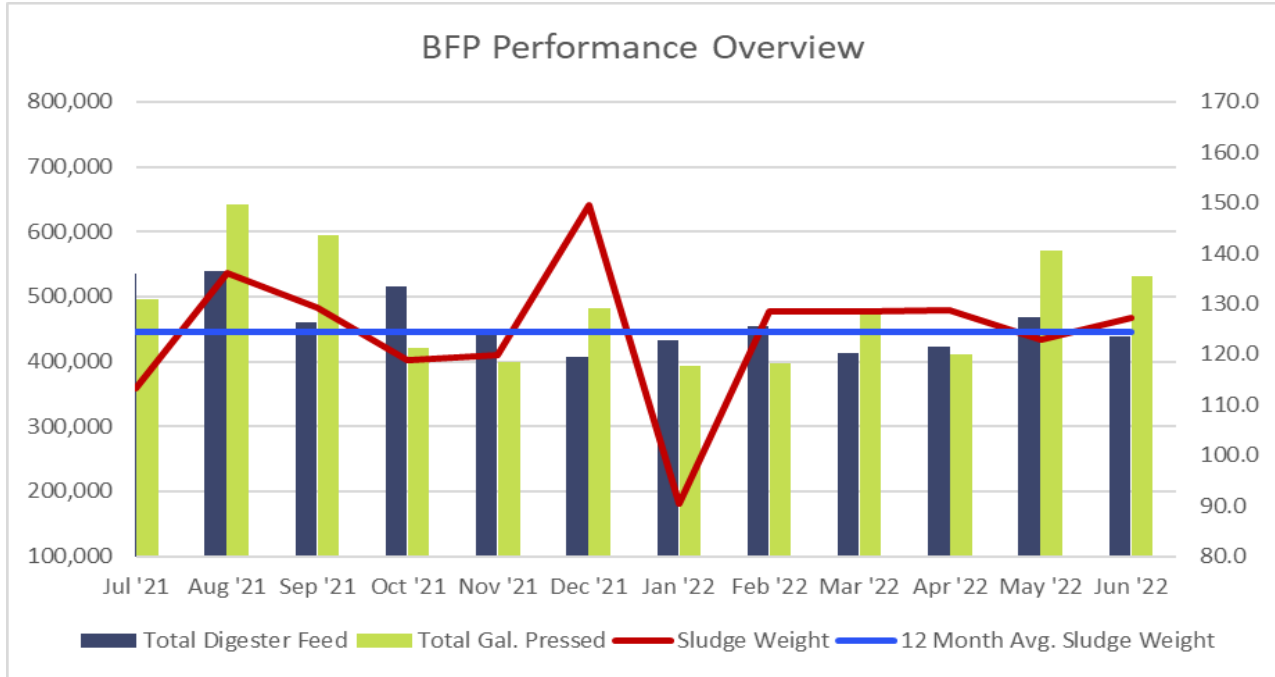
Total Flows for June 2022	
Station	Total Gallons
Millbrook	992,196
Summer	29,808
Market	469,200
John Burke	56,160
Lincoln, Forest	1,239,000
Wheeler	24,840
Woodsbury	1,351,803
OCW, HN, HS	4,784,400
Total:	8,947,406



Lift Station Monthly Average Daily Flows (GPD)											
Month	Millbrook	Sumer	Market	John Burke	Lincoln	Forrest	Wheeler	Woodsbury	Old Country Way	Hingham North	Hingham South
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
July '21	33,166	952	17,226	2,183	4,684	54,126	732	36,813	68,894	199,974	227,845
Aug '21	30,345	968	16,887	2,563	2,826	53,042	761	44,594	62,797	169,839	190,568
Sept '21	30,348	968	17,000	2,560	2,840	52,990	768	44,700	63,070	170,460	191,160
Oct '21	29,822	898	15,339	2,121	3,252	51,552	639	50,458	65,303	163,568	187,084
Nov '21	33,156	920	16,150	2,456	2,600	42,980	834	46,620	57,960	151,920	172,800
Dec '21	31,459	929	15,677	1,881	3,232	42,339	703	49,355	59,206	157,994	182,555
Jan '22	31,738	937	15,677	2,655	2,400	39,155	726	45,348	53,110	144,540	155,380
Feb '22	33,156	920	16,150	2,456	2,600	42,980	834	46,620	57,960	151,920	172,800
Mar '22	31,459	929	15,677	1,881	3,232	42,339	703	49,355	59,206	157,994	182,555
Apr '22	33,156	920	16,150	2,456	2,600	42,980	834	46,620	57,960	151,920	172,800
May '22	31,738	937	15,677	2,655	2,400	39,155	726	45,348	53,110	142,142	155,380
Jun '22	33,073	994	15,640	1,872	2,520	41,300	828	45,060	53,900	144,540	159,480
Average	31,885	939	16,104	2,312	2,932	45,411	757	45,908	59,373	158,901	179,201

5.0 SOLIDS HANDLING 6.1 REGULATORY REPORTING

The BFP was operated a total of **151** hours this month and a total of **439,371** gallons were processed producing **113** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.26%** and the BFP Cake average percent solids were **21.92%**. The sludge processing Dry Tons conversion sheet is attached to this report.



Date	BFP Run Hours	Total Digester Feed	Total BFP Feed	Polymer Used	Actual Sludge Weight	Average Press Feed Total Solids	Average Cake Total Solids	Sludge Pick Up	Grit Removed
	HRS	Gal.	Gal.	Gal.	Wet Tons	%	%	Dumpster	Tons
Jul '21	129.3	536,074	495,343	90.4	113.3	2.33	21.29	7.00	
Aug '21	154.6	538,761	641,667	128.7	136.1	1.97	21.24	7.00	
Sep '21	154.3	459,723	594,127	133.0	129.2	1.75	21.08	6.00	
Oct '21	108.5	515,074	420,101	86.6	118.9	2.67	21.17	5.00	
Nov '21	120.0	439,762	398,853	90.4	119.8	2.25	20.40	7.00	
Dec '21	152.8	407,825	481,140	126.2	149.5	1.56	20.29	7.00	
Jan '22	141.3	433,648	392,237	101.8	90.5	1.86	18.19	6.00	
Feb '22	140.8	453,426	396,361	112.0	128.6	2.07	18.64	6.00	
Mar '22	533.0	412,533	477,919	136.1	128.9	1.79	18.32	7.00	
Apr '22	133.8	422,314	410,793	123.4	123.0	2.66	19.69	6.00	
May '22	174.3	468,083	571,658	154.1	124.7	1.89	21.14	8.00	
June '22	151.3	439,371	530,756	132.9	127.1	2.26	21.92	6.00	
Annual Total	2,094	5,526,594	5,810,955	1,416	1,489	*****	*****	78	0.00
Avg.	174	460,550	484,246	118	124	2.09	20.28	6.5	*****

6.0 ENVIRONMENTAL COMPLIANCE

6.1 REGULATORY REPORTING

1. The EPA and MADEP June 22 NETDMR was submitted on the CDX website on 07/13/2022

6.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of June 2022

Date	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	Fecal Coliform	Aluminum	Copper	Dissolved Oxygen	Limits	Monthly Avg.	Weekly Avg.	Daily Max
	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Ug/L	Ug/L	Mg/L				
Wed, Jun 01	1.910							7.34				9.0	BOD			
Thu, Jun 02	2.100	3.7	65	3.7	65	0.20	0.12	7.20				9.6	Oct. 1 - April 30	20 Mg/L 417 lbs/day	20 Mg/L 417 lbs/Day	30 Mg/l 626 lbs/Day
Fri, Jun 03	1.820							7.26				9.6	May 1 - Sept. 30	6 Mg/L 125 lbs/Day	6 Mg/L 125 lbs/Day	10Mg/L 209 lbs/day
Sat, Jun 04	1.910							7.20				9.0	TSS			
Sun, Jun 05	1.950							7.35	5			9.0	Oct. 1 - April 30	20 Mg/L 417 lbs/Day	20 Mg/L 417 lbs/Day	30 Mg/l 626 lbs/Day
Mon, Jun 06	1.880	2.0	31	2.0	31	0.17	0.09	7.42	39	6	6.0	9.2	May 1 - Sept. 30	10 Mg/L 209 lbs/Day	10 Mg/L 209 lbs/Day	15Mg/L 313 lbs/day
Tues, Jun 07	1.920							7.44	46			8.6	NH3			
Wed, Jun 08	2.030	2.0	34	4.0	68	0.10	0.08	7.50				9.1	Oct.1 - Mar. 31	3.3 Mg/L	3.3 Mg/l	5.7 Mg/L
Thu, Jun 09	2.170							7.38				9.0	Apr. 1 - May 31	2.5 Mg/L	2.5 Mg/l	5.7 Mg/l
Fri, Jun 10	2.070							7.51				9.4	June 1 - Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Sat, Jun 11	2.070							7.45				9.0	Total Phosphorus			
Sun, Jun 12	2.180							7.52	27			8.7	Apr. 1 - Oct.31	0.2 Mg/L	*****	*****
Mon, Jun 13	2.090							7.56				8.9	Nov. 1 - Mar. 31	1.0 Mg/L	*****	*****
Tues, Jun 14	2.030	3.9	66	2.0	34	1.00	0.08	7.36	27			8.4	Ph			
Wed, Jun 15	2.010							7.30	50			8.3	6.5 - 8.3			
Thu, Jun 16	1.980	2.5	41	2.2	36	1.10	0.08	7.23				8.9	Fecal			
Fri, Jun 17	1.990							7.50				8.7	*****	200 CFU/100ml	*****	400 CFU/100ml
Sat, Jun 18	1.970							7.73				8.4	Aluminum			
Sun, Jun 19	2.070							7.77	51			8.8	*****	88 ug/l	*****	*****
Mon, Jun 20	2.080							7.69	53			8.9	Copper			
Tues, Jun 21	1.990	2.0	33	2.5	41	0.18	0.09	7.58	200			9.1	*****	12 ug/l	*****	*****
Wed, Jun 22	1.950							7.60				8.2	May 1 - Sept. 30 > 7.4 mg/L			
Thu, Jun 23	2.060	2.0	34	2.0	34	0.11	0.08	7.38				8.8	Plant Flow			
Fri, Jun 24	1.830							7.36				8.9	2.5 MGD			
Sat, Jun 25	1.980							7.41				8.8				
Sun, Jun 26	1.940							7.40	26			8.9				
Mon, Jun 27	2.020							7.50	66			8.7				
Tues, Jun 28	1.960	2.0	33	2.5	41	0.38	0.05	7.37	17			8.1				
Wed, Jun 29	1.900							7.53				7.8				
Thu, Jun 30	1.880	2.0	31	3.3	52	0.17	0.07	7.53				9.0				
Daily Max	2.180	3.90	66.03	4.00	67.72	1.10	0.12	7.77	200	*****	*****	*****				
Daily Min.	1.820	*****	*****	*****	*****	*****	*****	7.20	*****	*****	*****	7.80				
Month Avg.	1.991	2.46	40.89	2.69	44.67	0.38	0.08	7.45	50.583	6	6.0	*****				

7.0 ENERGY CONSUMPTION

7.1 ELECTRICAL OVERVIEW

Due to the billing cycle timing, all electrical data in the MOR will be one month behind. The following data is for electrical consumption during the **May 2022** operating period.

The department used a total of **138,055 KWH** for the month of May 2022. Of this total, the lift stations accounted for **10.9%**, using **15,055 KWH**. The Main Plant accounted for the remaining **123,000 KWH**. The KWH/ MG treated was **1,816** for the month, which is **22.96%** higher than the previous 12-month average of **1,399 KWH/MG**. The KWH/Lb. BOD Removed was **1.06 KWH/Lb.** for the month, which is **18.5%** lower than the previous 12-month average of **1.30 KWH/Lb.**

Monthly Energy Consumption										
Month	Plant Average Daily Flow (NO HFMP)	Plant Total Influent Flow	Plant KWH (Total Billed)	KWH/MG Treated (Plant)	Plant Lbs BOD Removed	KWH/Lb BOD Removed (Plant)	Off Peak Demand (Plant)	Peak Demand (Plant)	Total Lift Station KWH	Total KWH (Plant & Stations)
	MGD	MG	KWH	KWH/MG	Lbs	KWH/Lb	KW	KW	KWH	KWH
Jun '21	2.43	72.83	111,600	1,532	114,694	0.97	219	228	12,161	124,458
Jul '21	3.43	106.47	125,400	1,178	70,944	1.77	222	249	12,858	138,955
Aug '21	2.91	90.06	132,600	1,472	92,787	1.43	249	255	13,555	145,916
Sep '21	3.05	91.41	110,400	1,208	69,519	1.59	204	231	13,316	122,323
Oct '21	3.18	98.51	107,100	1,087	90,595	1.18	231	234	11,923	120,638
Nov '21	3.12	93.74	132,900	1,418	65,739	2.02	201	216	13,538	150,064
Dec '21	2.52	78.08	120,600	1,545	109,345	1.1	201	213	17,164	136,450
Jan '22	2.75	85.26	139,500	1,636	118,805	1.17	225	264	15,850	161,569
Feb '22	4.06	113.62	142,500	1,254	116,417	1.22	234	261	22,069	164,569
Mar '22	3.43	106.19	122,400	1,153	117,284	1.04	222	222	19,576	141,976
Apr '22	2.77	82.96	123,000	1,483	115,947	1.06	198	204	16,322	139,322
May '22	2.19	67.74	123,000	1,816	116,352	1.06	183	198	15,055	138,055
Average	2.99	90.57	124,250	1,399	99,869	1.30	216	231	15,282	140,358

Monthly Lift Station KWH														
Month	Hingham North	Hingham South	Spruce	Butternut	Old Country Way	Market	Woodsbury	Lincoln	Forest	Wheeler	Summer	Milbrook	John Burke	Total
Jun '21	2,384	3,800	144	319	1,027	665	858	175	1,330	52	57	1,247	103	12,161
Jul '21	2,809	4,300	177	335	887	362	901	253	1,719	65	62	883	105	12,858
Aug '21	2,969	4,800	159	415	987	347	1,112	152	1,454	54	62	914	130	13,555
Sep '21	2,740	4,700	170	486	1,044	344	892	159	1,630	58	62	908	123	13,316
Oct '21	2,648	3,900	150	421	885	397	836	185	1,395	52	53	892	109	11,923
Nov '21	2,754	4,000	179	529	908	697	1,142	225	1,667	49	57	1,215	116	13,538
Dec '21	3,279	4,900	188	654	1,244	970	1,416	363	2,116	61	70	1,666	237	17,164
Jan '22	3,246	4,600	187	554	1,270	854	1,264	309	1,742	56	58	1,501	209	15,850
Feb '22	5,072	6,800	230	438	1,573	1,185	1,605	373	2,434	59	68	1,989	243	22,069
Mar '22	3,783	6,200	194	515	1,647	946	1,683	319	2,259	55	61	1,717	197	19,576
Apr '22	2,995	5,100	246	434	1,260	851	1,353	283	1,915	58	67	1,524	236	16,322
May '22	3,149	5,000	215	161	257	964	1,332	280	1,809	72	69	1,562	185	15,055
Average	3,152	4,842	187	438	1,082	715	1,200	256	1,789	58	62	1,335	166	15,282

8.0 MAINTENANCE

8.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	161	1026
Corrective Maintenance	13	62
Emergency Call Outs Total	3	25

8.2 SIGNIFICANT CORRECTIVE WORK ORDERS FOR THE MONTH

CM Description	WO #

8.3 SIGNIFICANT OPEN WORK ORDERS

CM Description	WO #
	20240 & 20241
Influent Pump #1 (Spare) R	20248
Lime Unloader #3 Corrective	13568
Hingham South Pump #1 Replacement	17427

8.4 EMERGENCY CALL OUTS FOR THE MONTH

Type	Total this Month	Total this Year
Sewer Back Up / Collection System	0	5
Pump Station	1	7
Plant	0	1
Odor	0	0
Power Outages	2	4
Total:	3	17

8.5 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

1. All pump station alarms checked
2. Spruce probe cleaned weekly
3. Eye wash inspections completed weekly
4. Fire extinguisher inspections completed monthly

8.6 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSISTANCE:

Type	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	0
Sewer Location mark Outs	0	3
Sewer Back Up	0	5

8.7 WORK ORDER STATISTICS

There were **199.51** total reported maintenance hours during the month. Of this total, outside contractors accounted for **68%** with **136** hours recorded.

