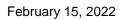
Monthly Operating Report *January 2022*



Rockland, MA WWTP







Mr. David P. Taylor
Rockland Interim Sewer Superintendent
587 Rear Summer Street
Rockland, MA 02370
RE: Rockland Wastewater Facility
Monthly Report—January 2022
Dear Mr. Taylor,
Please see the enclosed January 2022 Monthly Operating Report (MOR) for the Suez Operations and Maintenance contract.
Please contact me soon as possible should you have any questions regarding this report.
Sincerely,
Rick Kotouch
SUEZ Project Manager

CC: Charles Heshion Dan Duross

JANUARY 2022 MONTHLY OPERATING REPORT

1. SUMMARY:

- 1) The facility will be reporting 1 exceedances for the month of January 2022.
- 2) There were no lost time / first aid injuries throughout the month
- 3) The facility treated a total of **85.260** Million Gallons. The average daily flow was **2.750** MGD.
- 4) The total rainfall for this reporting period was 3.85".
- 5) I&I Work is ongoing
- 6) **163** work orders were closed in January, with **6** as corrective maintenance work orders, **3** of the 6 were emergency call outs, while **1** was related to the collection system.
- 7) New NPDES Permit was issued and received in November 2021.

2. STAFFING:

	Current Employee Licenses as of 11/17/2021										
			oisting	Wastewater			NEWEA Collections			NEWEA Laboratory	
Employee	Title	1C Forklift	1B Boom Truck & Forklift	4M	5C	7C	ı	II	IV	I	
Rick Kotouch	Project Manager					х			х		
Edwin McAuliffe	Asst. Project Manager		х			Х		Х		х	
Steven Butts	Lab Technician					х				x	
Chuck Amaral	Maintenance Foreman		х		Х			х			
Megan Kelly Lynch	Operator	x				х					
Shaun Chaponis (Part Time Weekends)	Operator				Х		х				
Garry Murrill	Operator				x			х			
Dan Sullivan-Xenos	Operator				Х						

3. EMPLOYEE HEALTH AND SAFETY:

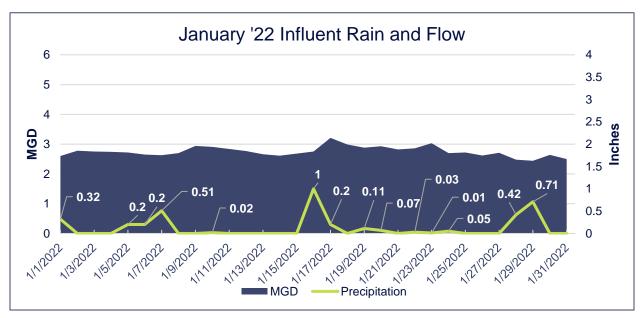
Throughout the COVID-19 (Coronavirus) pandemic in an attempt to continue to serve the Town of Rockland with reliable operations and protect the staff of the Rockland team, SUEZ has implemented numerous procedures to ensure continuity of the operations. As the COVID-19 Delta variant and Omicron rates decreases, SUEZ at the Rockland facility has downgraded to a Threat Level 2 guideline as follows:

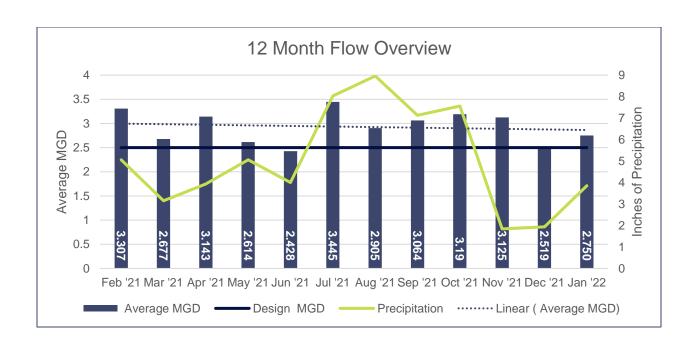
All essential personnel are required to be screened before entering the premises and meet the Covid visitor guidelines. Use of common areas/dining areas, in-person meetings and training are permitted, venue must accommodate social distancing and use of face coverings unless everyone is vaccinated.

4 FOWS AND LOADINGS:

4.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 85.260 MG during the month. The daily average flow was 2.750 MGD. This was 0.092 MGD less than the previous January monthly average, which was recorded at 2.843 MGD. The highest *peak* flow was recorded on January 23 as 3.72 MGD. The lowest instantaneous flow was 1.240 MGD, recorded January 1.
- The highest daily flow was recorded on January 17 as 3.210 MGD. The lowest daily flow was recorded on January 29 as 2.440 MGD.
- A total of **3.85**" of precipitation was received at the facility. The highest single day precipitation total was recorded on January 16 as **1.00**"
- The coldest day was January 31 at -4°F. The warmest day was January 1 at 52°F.





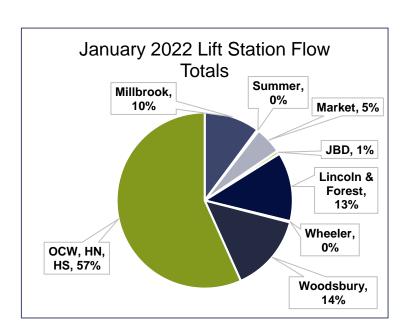
4.1 INFLUENT BOD AND TSS LOADINGS

	ROCKLAND FLOW AND LOADINGS TRACKING										
Month/Yr	Inf. Flow			Inf. Flow Mov. Avg.	Inf. BOD Mov. Avg.	Inf. TSS Mov. Avg.					
	MGD	LBS	LBS	MGD	LBS	LBS					
Feb '21	3.307	3,253	4,139	2.499	3,090	3,933					
Mar '21	2.677	2,907	3,256	2.495	3,043	3,860					
Apr '21	3.143	3,189	3,630	2.418	3,031	3,814					
May '21	2.614	3,485	3,644	2.380	3,064	3,802					
Jun '21	2.428	3,874	3,572	2.419	3,112	3,790					
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	2.75	3,909	3,676	2.931	3,103	3,774					

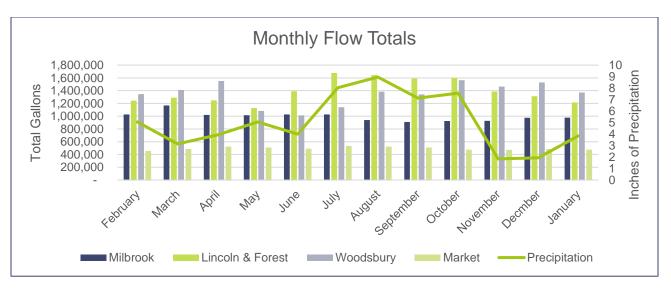
4.2 LIFT STATION FLOWS

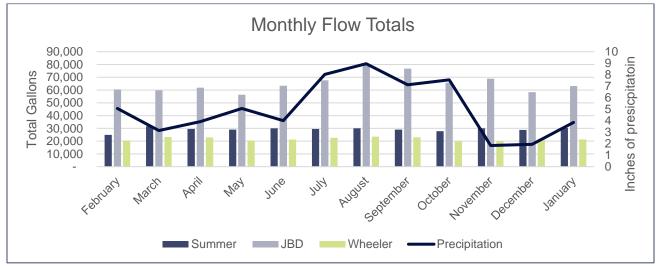
The lift stations accounted for **9,597,239** gallons throughout the month, **11.3%** of the total plant flow. Please note that monthly lift station flow totals are purely estimates based off of pump run hours and estimated flow rates. Values are not intended to in any way be used as design capacity volumes for potential future rehab / replacement projects.

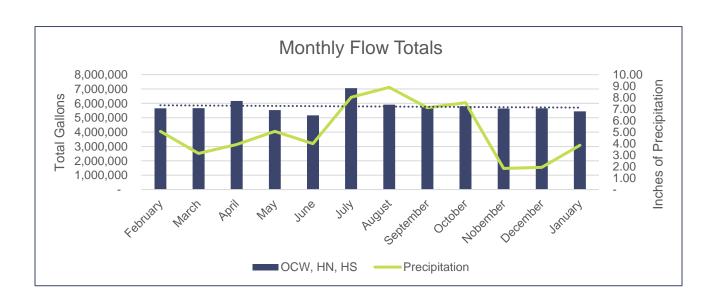
Total Flows for January 2022								
Station	Total Gallons	% Off 12 Month Avg.						
Millbrook	976,320	-4%						
Summer	30,480	5%						
Market	477,000	-4%						
John Burke	63,120	-3%						
Lincoln, Forest	1,215,902	-13%						
Wheeler	21,420	0%						
Woodsbury	1,369,802	1%						
OCW, HN, HS	5,443,196	-7%						
Total:	9,597,239	-6%						



	Lift Station Monthly Average Daily Flows (GPD)											
Month	Millbrook	Sumer Market John Burke Lincoln Forrest Wheeler Woodsbur		Woodsbury	Old Country Way	Hingham North	Hingham South					
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	
Feb '21	34,272	832	15,250	2,016	2,100	41,440	684	44,880	59,850	148,500	188,640	
Mar '21	37,656	1,024	15,700	1,928	2,260	41,650	738	45,540	58,800	148,500	183,960	
Apr '21	34,020	984	17,450	2,064	2,280	41,580	762	51,720	63,770	160,920	205,560	
May '21	33,876	968	16,950	1,880	2,160	37,590	678	36,060	59,220	152,640	184,320	
June '21	34,272	1,000	16,400	2,112	5,020	46,410	708	33,720	51,240	153,360	172,080	
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	30,924	1,000	15,800	2,296	3,600	46,200	660	48,780	62,930	159,120	188,280	
Dec '21	31,459	929	15,677	1,881	3,232	42,339	703	49,355	59,206	157,994	182,555	
Jan '22	31,494	983	15,387	2,036	2,555	39,223	691	44,187	56,429	154,684	175,587	
Average	32,638	959	16,256	2,137	3,067	45,678	710	44,234	60,959	161,630	189,803	

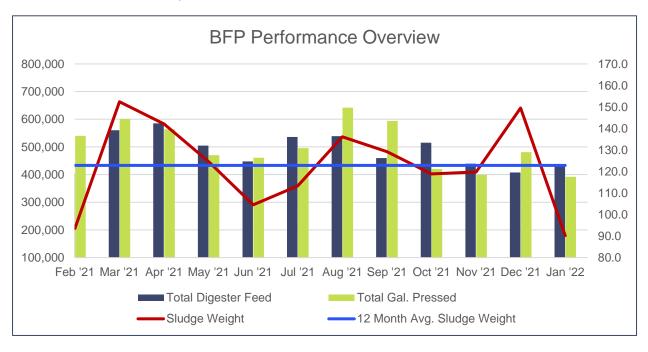






5.0 SOLIDS HANDLING

The BFP was operated a total of 141 hours this month and a total of 392,237 gallons were processed producing 90 Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were 1.86% and the BFP Cake average percent solids were 18.19%. The digester feed to BFP differential was 41,411 gallons (overflow) for the month. 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
Feb '21	146.0	403,368	540,139	92.0	93.5	2.00	19.19	6.00	
Mar '21	190.3	560,191	600,688	142.4	152.4	2.08	19.16	7.00	
Apr '21	172.5	585,402	564,039	131.3	142.1	2.48	20.23	8.00	
May '21	161.5	504,683	470,321	108.0	124.6	2.62	21.62	7.00	
Jun '21	148.3	447,325	460,923	109.1	104.5	2.16	23.59	6.00	
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	4.00
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	90.2	1.86	18.19	6.00	
Annual Total	1,779	5,831,836	6,059,578	1,340	1,474	****	****	79	4.00
Avg.	148	485,986	504,965	112	123	2.14	20.62	6.6	****

6.0 ENVIRONMENTAL COMPLIANCE

6.1 REGULATORY REPORTING

- 1. EPA January 22 NETDMR submitted on the CDX website on 02/04//2022
- 2. MADEP January 22 MOR mailed on 02/04/2022

6.2 NPDES COMPLIANCE

The facility will be reporting (1) exceedances for the month of January 2022

The monthly average flow was recorded at 2.75 MGD, the NPDES limit is 2.50 MGD.

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	BOD			
Sat, Jan 01	2.600							7.28					Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/I
Sun, Jan 02	2.780							7.27	23				Aprill 30	417 bs/day	417 lbs/Day	626 lbs/Day
Mon, Jan 03	2.750							7.18	46				May1 -	6 Mg/L	6 Mg/L	10Mg/L
Tue, Jan 04	2.740	3.0	69	2.0	46	2.90	0.69	7.22	56	9	5.8		Sept. 30	125 Lbs/Day	125 lbs/Day	209 Lbs/day
Wed, Jan 05	2.720							7.28					TSS			
Thu, Jan 06	2.650	3.8	84	2.0	44	0.74	0.80	7.32					Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Fri, Jan 07	2.630							7.21					Aprill 30	417 Lbs/Day	417 Lbs/Day	626 lbs/Day
Sat, Jan 08	2.700							7.12					May1 -	10 Mg/L	10 Mg/L	15Mg/L
Sun, Jan 09	2.940							7.29	56				Sept. 30	209 Lbs/Day	209 lbs/Day	313 Lbs/day
Mon, Jan 10	2.910							7.20	57				NH3			
Tue, Jan 11	2.840	3.7	88	2.0	47	0.43	0.66	7.28	76				Oct.1 - Mar.	0.014-#	0.014-4	5.7.14-0
Wed, Jan 12	2.770							7.26					31	3.3 Mg/L	3.3 Mg/l	5.7 Mg/L
Thu, Jan 13	2.660	3.6	80	3.0	67	0.30		7.22					Apr. 1 -	0.5 M=/I	0.5 M=//	5.7 Mg/l
Fri, Jan 14	2.610							7.21					May 31	2.5 Mg/L	2.5 Mg/l	3.7 Wg/I
Sat, Jan 15	2.680							7.18					June1 -			
Sun, Jan 16	2.750							7.17	19				Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Mon, Jan 17	3.210							7.22	206				Total Phps	phorus		
Tue, Jan 18	2.990	4.0	100	3.0	75	0.46	0.73	7.24	100				Apr.1 -	0.014-#	******	*******
Wed, Jan 19	2.880							7.22					Oct.31	0.2 Mg/L		
Thu, Jan 20	2.930	2.1	51	3.0	73	0.10		7.31					Nov. 1 -	4.0.14-//	******	*******
Fri, Jan 21	2.820							7.22					Mar. 31	1.0 Mg/L		
Sat, Jan 22	2.860							7.16					Ph			
Sun, Jan 23	3.030							7.27	50					6.5	- 8.3	
Mon, Jan 24	2.700							7.24	118				Fecal			
Tue, Jan 25	2.720	3.5	79	4.0	91	0.41	0.68	7.35	94				*******	200	******	400
Wed, Jan 26	2.620							7.39					*******	CFU/100ml		CFU/100ml
Thu, Jan 27	2.710	2.7	61	2.0	45	0.49		7.31					Aluminum			
Fri, Jan 28	2.480							7.26					******	88 ug/l	******	******
Sat, Jan 29	2.440							7.23					Copper			
Sun, Jan 30	2.640							7.04	3				******	12 ug/l	******	******
Mon, Jan 31	2.500							7.16	16				Dissolved (Oxygen		
Daily Max	3.210	4.00	99.75	4.00	90.74	2.90	0.80	7.39	206	******	*****	******	May 1 -		> 7.4 mg/L	
Daily Min.	2.440	******	******	******	******	******	******	7.04	******	******	*****		Sept. 30 Plant Flow			
Month Avg.	2.750	3.30	76.50	2.63	61.00	0.73	0.71	7.24	65.71	9	5.8	*****		2.5	MGD	

7.0 ENERGY CONSUMPTION

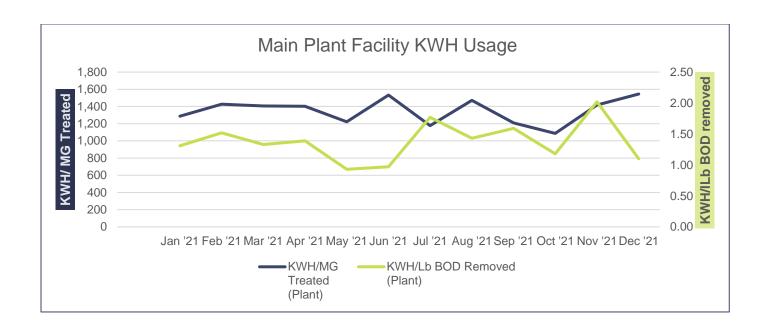
7.1 ELECTRICAL OVERVIEW

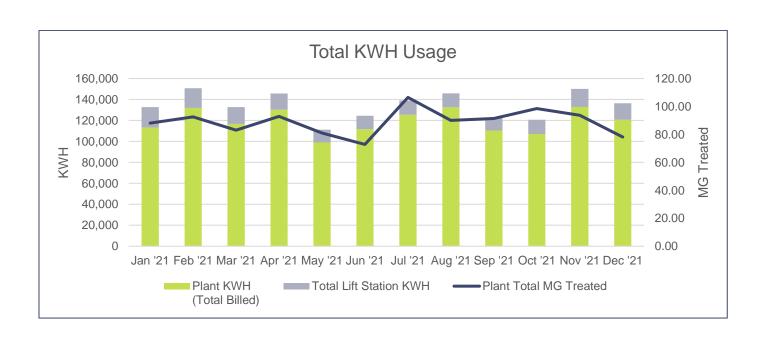
Due to billing cycle timing, all electrical data in the MOR will be one month behind. The following data is for electrical consumption during the *December 2021* operating period.

The department used a total of **136,450** *KWH* for the month of Dec. 2021. Of this total, the lift stations accounted for *11.6%*, using *15,850* KWH. The Main Plant accounted for the remaining *120,600* KWH. The KWH/ MG treated was *1,545* for the month, which is *15.51%* higher than the previous 12-month average of *1,338* KWH/MG. The KWH/Lb. BOD Removed was *1.1* KWH/Lb. for the month, which is *23%* lower than the previous 12-month average of *1.43* 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	
Jan '21	2.84	88.12	113,400	1,287	86,723	1.31	222	240	19,293	132,693	
Feb '21	3.31	92.59	132,000	1,426	86,598	1.52	216	228	18,800	150,800	
Mar '21	2.68	83.00	116,700	1,406	87,712	1.33	198	216	16,048	132,748	
Apr '21	3.1	92.87	130,200	1,402	93,957	1.39	219	219	15,528	145,728	
May '21	2.61	81.02	99,000	1,222	106,715	0.93	186	189	12,161	111,161	
Jun '21	2.43	72.83	111,600	1,532	114,694	0.97	219	228	12,858	124,458	
Jul '21	3.43	106.47	125,400	1,178	70,944	1.77	222	249	13,555	138,955	
Aug '21	2.91	90.06	132,600	1,472	92,787	1.43	249	255	13,316	145,916	
Sep '21	3.05	91.41	110,400	1,208	69,519	1.59	204	231	11,923	122,323	
Oct '21	3.18	98.51	107,100	1,087	90,595	1.18	231	234	13,538	120,638	
Nov '21	3.12	93.74	132,900	1,418	65,739	2.02	201	216	17,164	150,064	
Dec '21	2.52	78.08	120,600	1,545	109,345	1.1	201	213	15,850	136,450	
Average	2.93	89.06	119,325	1,349	89,611	1.38	214	227	15,003	134,328	

	Monthly Lift Station KWH													
Month	Hingham North	Hingham South	Spruce	Butternut	Old Country Way	Market	Woodsbury	Lincoln	Forest	Wheeler	Summer	Milbrook	John Burke	Total
Jan '21	4,504	6,100	202	541	1,243	987	1,318	312	2,173	57	61	1,577	218	19,293
Feb '21	3,994	6,000	180	540	1,550	935	1,400	308	2,060	55	55	1,508	215	18,800
Mar '21	2,749	4,900	190	482	1,234	907	1,669	288	1,813	62	61	1,520	173	16,048
Apr '21	2,812	5,000	191	459	1,088	910	1,297	272	1,725	63	65	1,490	156	15,528
May '21	2,384	3,800	144	319	1,027	665	858	175	1,330	52	57	1,247	103	12,161
Jun '21	2,809	4,300	177	335	887	362	901	253	1,719	65	62	883	105	12,858
Jul '21	2,969	4,800	159	415	987	347	1,112	152	1,454	54	62	914	130	13,555
Aug '21	2,740	4,700	170	486	1,044	344	892	159	1,630	58	62	908	123	13,316
Sep '21	2,648	3,900	150	421	885	397	836	185	1,395	52	53	892	109	11,923
Oct '21	2,754	4,000	179	529	908	697	1,142	225	1,667	49	57	1,215	116	13,538
Nov '21	3,279	4,900	188	654	1,244	970	1,416	363	2,116	61	70	1,666	237	17,164
Dec '21	3,246	4,600	187	554	1,270	854	1,264	309	1,742	56	58	1,501	209	15,850
Average	3,074	4,750	176	478	1,114	698	1,175	250	1,735	57	60	1,277	158	15,003





8.0 MAINTENANCE

8.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	157	157
Corrective Maintenance	6	6
Emergency Call Outs Total	3	3

8.2 SIGNIFICANT CORRECTIVE WORK ORDERS FOR THE MONTH

	CM Description	WO#
1.	Digester Sludge Transfer Pump #3 Purchase and Installed	19561
2.	BFP Water Pump Lovejoy Coupling Replaced	20815
3.	F150 Plow Hydraulic Ram Replaced	20816

8.3 SIGNIGICANT OPEN WORK ORDERS

	Open CM Description	WO#
3.	Woodsbury Pump 2 Inspect and Repair	14917
4.	WAS Pump 1 Mechanical Seal Replacement	19467
5.	Fire Alarm LED Outside Main MCC Replacement	20241
6.	Men Restroom Fire Alarm Strobe Replacement	20240
7.	Influent Pump 1 Rebuild	20248

8.4 EMERGENCY CALL OUTS FOR THE MONTH

Туре	Total this Month	Total this Year
Sewer Back Up / Collection System	1	1
Pump Station	2	2
Plant	0	0
Odor	0	0
Power Outages	0	0
Total:	3	3

8.5 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

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

8.6 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY SUEZ

COLLECTION SYSTEM ASSITANCE:

Туре	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	0
Sewer Location mark Outs	0	0
Sewer Back Up	1	1

• GM assisted DT wish resident backup at 106 Durbeck Lane on 1/06

INDUSTRIAL PRE TREATMENT ASSISTANCE:

Parameter	Monthly Total	Annual Total
Grease Trap Inspections	0	0
Bi-Annual Permit Renewals	0	0
Bi-Annual Permit Issuance	0	0
Annual IPP Final/Raw Sampling	0	0
EPA IPP Audit / Inspection	0	0

8.7 WORK ORDER STATISTICS

There were **97.91** total reported maintenance hours during the month. Of this total, outside contractors accounted for **20%** with **20** hours recorded.



9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- HACH Wims Data Reports
- Cumulative and Monthly Violation Reports
- Financial Reports
- Solids Removal Summary