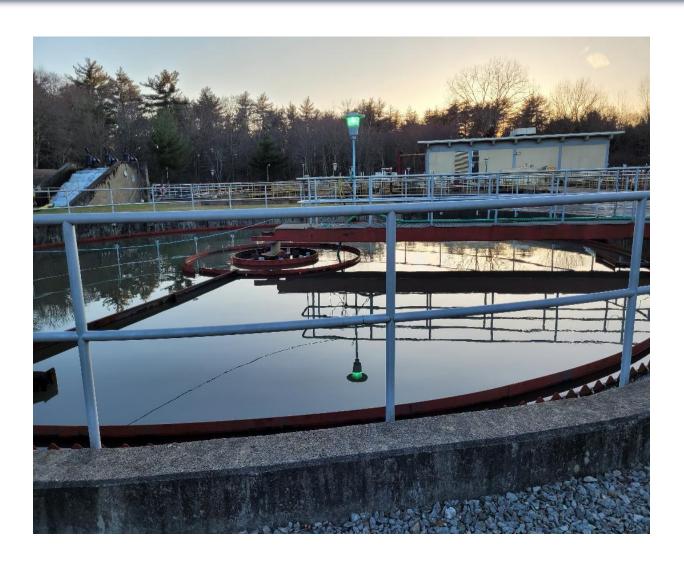
# Monthly Operating Report

**MARCH 2024** 



Rockland, MA WWTP







Rockland Sewer Commission Chairman 587 Rear Summer Street Rockland, MA 02370  RE: Rockland Wastewater Facility Monthly Report—March 2024  Dear Mr. Heshion,  I have enclosed March's 2024 Monthly Operating Report (MOR) for the Veolia Operations and Maintenance contract.  Please contact me if you should you have any questions regarding this report.  Sincerely,  Rick Kotouch Veolia Project Manager  CC: Daniel Duross Sherri Vallie	Mr. Chuck Heshion
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Veolia Project Manager  CC: Daniel Duross	Sincerely,
Veolia Project Manager  CC: Daniel Duross	
CC: Daniel Duross	Rick Kotouch
Daniel Duross	Veolia Project Manager
Daniel Duross	
Daniel Duross	

## MARCH 2024 MONTHLY OPERATING REPORT

## 1. SUMMARY:

The facility will be reporting 1 exceedance for the month of March 2024

- 1) There was **0** lost time / first aid injuries throughout the month.
- 2) The facility treated a total of 118,909 million gallons. The average daily flow was 3.836 MGD
- 3) The total rainfall for this reporting period was 10.22"
- 4) I&I Work is ongoing
- 5) **175** work orders were closed out, with **17** as corrective maintenance work orders and **4** were emergency call outs.
- 6) Massachusetts general wastewater permit began April 1st, 2023

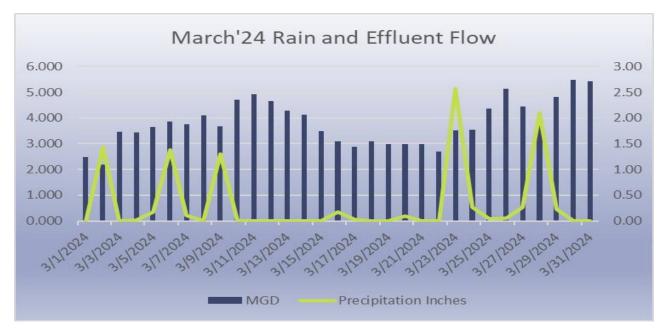
## 2. STAFFING:

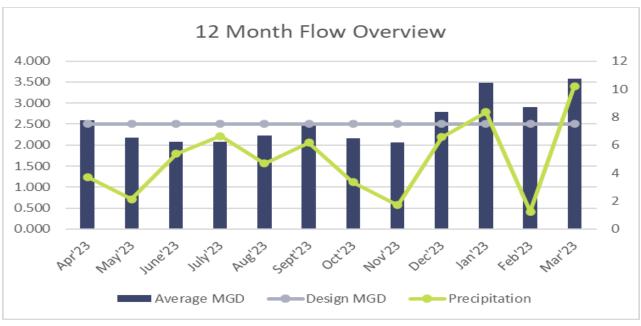
	Current Employee Licenses as of 09/14/2023									
		Hoi	sting	\	Wastewate	r	NEW	NEWEA Laboratory		
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	7C	I	II	IV	I
Richard Kotouch	Project Manager					Х			Χ	
Megan Kelly-Lynch	Asst. Project Manager	Х				Х				
Steven Butts	Lab Technician					Х				Х
Charles Amaral	Maintenance Foreman				Х			Х		
Garry Murrill	Operator				Х			Χ		
Maxwell Jackson	Operator			Х						
Cristian Ryan	Operator									
Michael Hurley	Operator									
Shaun Chaponis (Part Time Weekends)	Operator				Х		Х			

#### 3. FLOWS AND LOADINGS:

#### 3.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of 118,909 MG during the month. The daily average flow was 3.836 MGD. This was 0.037 MGD more than the previous March monthly average, which was recorded at 3.601 MGD. The highest daily flow was recorded on March 30<sup>th</sup> as 5.490 MGD. The lowest daily flow was recorded on March 1st as 2.470 MGD.
- The highest peak flow was recorded on March 26th as 4.679 MGD.
- A total of **10.22**" of precipitation was received at the facility. The highest single day precipitation total was recorded on March 23<sup>rd</sup> as **2.57**".
- The coldest day was March 1st at 18°F. The warmest day was March 31st at 59°F.



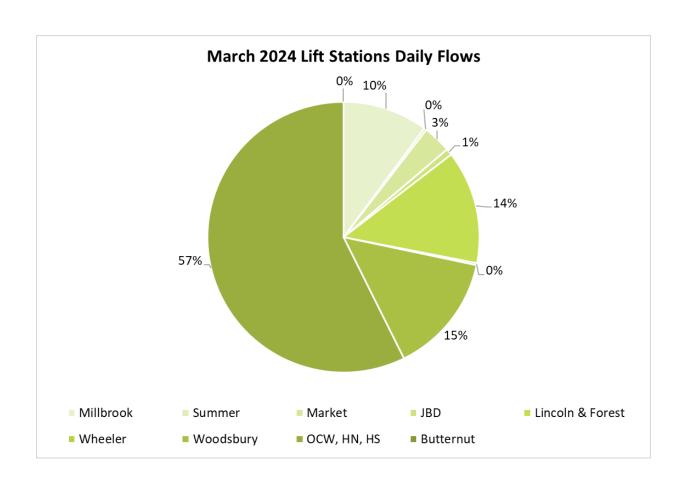


ROCKLAND FLOW AND LOADINGS TRACKING								
Month/Yr	Influent Flow	Effluent Flow	Influent Flow Moving Avg.	Effluent Flow Moving Avg.				
	MGD	MGD	MGD	MGD				
Apr '23	2.586	2.212	2.577	2.820				
May '23	2.497	2.174	2.603	2.658				
June '23	2.083	1.735	2.610	2.473				
July '23	2.404	2.073	2.666	2.407				
Aug '23	2.102	2.024	2.706	2.352				
Sep '23	2.457	2.532	2.76	2.374				
Oct '23	2.114	2.161	2.73	2.351				
Nov '23	2.069	2.069	2.711	2.323				
Dec '23	3.302	2.79	2.702	2.365				
Jan '24	4.11	3.477	2.689	2.458				
Feb '24	2.884	2.905	2.684	2.479				
Mar '24	4.212	3.836	2.735	2.499				

#### 3.2 LIFT STATION FLOWS

The lift stations accounted for **12,193,800** gallons throughout the month, **10%** 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.

Tota	al Flows for March 2024	
Station	Gallons	
Millbrook	1,217,160	
Summer	36,960	
Market	403,500	
John Burke	92,880	
Lincoln, Forest	1,629,600	
Wheeler	29,700	
Woodsbury	1,728,000	
OCW, HN, HS	6,901,200	
Butternut	154,800	
Total:	12,193,800	

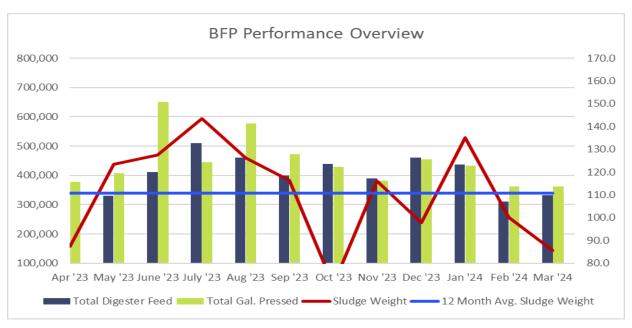


## Lift Station Monthly Average Daily Flows (GPD)

Month	Millbrook	Summer	Market	John Burke	Lincoln	Forrest	Wheeler	Woodsbury	Old Country Way	Hingham North	Hingham South	Butternut
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
Apr'23	46,209	994	15,054	3,180	3,343	57,150	861	52,714	53,325	137,507	170,486	3857
May '23	36,566	874	15,321	4,226	2,786	49,800	784	40,436	52,425	145,800	180,514	2796
June '23	32,516	831	12,964	2,983	2,250	50,100	746	34,393	49,575	33,264	178,200	2411
July '23	32,554	960	13,339	2,897	2,721	54,300	778	44,550	54,300	151,971	174,343	2,475
Aug '23	43,894	857	13,875	3,180	3,086	57,600	5,001	58,243	67,200	180,707	219,858	4,146
Sep'23	30,356	857	13,554	1,637	2,679	51,300	765	45,321	52,650	153,900	166,628	2,379
Oct '23	36,720	866	14,250	1,843	2,550	50,850	784	57,343	50,325	145,414	156,986	2,025
Nov '23	30,047	857	13,286	3,137	2,743	58,050	1,080	36,450	46,650	130,757	145,414	2,539
Dec '23	35,833	969	14,411	2,237	2,936	59,250	791	50,079	57,300	153,128	189,000	3,536
Jan'24	36,373	1,123	18,643	2,246	3,836	62,700	849	66,793	82,050	174,729	242,614	5,271
Feb'24	32,207	909	14,946	2,949	3,536	51,000	797	47,700	56,475	148,693	177,043	4,243
Mar <sup>1</sup> 24	43,470	1,320	14,411	3,317	7,500	58,200	1,061	61,714	77,625	193,436	246,471	5,529
Average	36,395	951	14,505	2,819	3,331	55,025	1,191	49,645	58,325	145,776	187,296	3,434

#### 4.0 SOLIDS HANDLING

The BFP operated a total of **122.30** hours this month and a total of **362,712** gallons were processed producing **85.73** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **2.32%** and the BFP Cake average percent solids were **21.64%**. 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
Apr '23	123.3	318,169	377,424	105.6	87.5	2.21	20.87	6.00	
May '23	125.6	329,820	407,350	114.4	123.5	2.08	21.52	6.00	
June '23	183.7	411,781	649,427	155.6	127.6	1.88	22.32	8.00	
July '23	128.4	444,319	510,385	109.6	143.6	2.11	21.39	7.00	
Aug '23	161.6	459,960	577,299	128.1	126.3	2.01	22.81	7.00	
Sep '23	142.7	400,268	473,224	113.6	116.4	1.92	22.35	6.00	
Oct '23	127.4	438,575	428,509	112.0	70.5	2.00	22.64	5.00	
Nov '23	132.4	389,377	381,901	108.8	116.0	2.18	22.12	8.00	
Dec '23	150.5	460,829	454,170	137.6	97.9	2.04	21.95	6.00	
Jan '24	152.4	436,721	432,214	123.2	135.3	2.27	20.80	7.00	
Feb '24	130.5	311,234	362,674	111.2	100.1	2.05	22.41	6.00	
Mar '24	122.3	331,384	362,712	119.2	85.7	2.32	21.64	6.00	
Annual Total	1,681	4,732,437	5,417,289	1,439	1,330	****	****	78	0.00
Avg.	140	394,370	451,441	120	111	2.09	21.90	6.5	****

## 5.0 ENVIRONMENTAL COMPLIANCE

## 5.1 REGULATORY REPORTING

1. The EPA and MADEP March NETDMR was submitted on the CDX website on 4/8/2024.

## 5.2 NPDES COMPLIANCE

The facility will be reporting (1) exceedance(s) for the month of March 2024

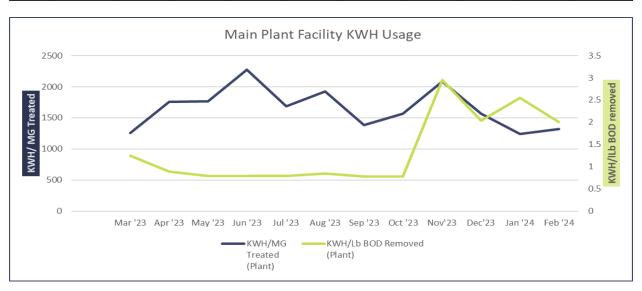
Date	Plant Flow	BOD	BOD	TSS	TSS	NH3	Total P	Ph	E. Coli Coliform	Aluminum	Copper	Dissolved Oxygen	Limits	Monthly Avg.	Weekly Avg.	Daily Max
	MGD	Mg/L	Lbs./Day	Mg/L	Lbs./Day	Mg/L	Mg/L	Ph	CFU/100 ml	Ug/L	Ug/L	Mg/L	BOD			
Fri, Mar 1	2.470							7.41					Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Sat, Mar 2	2.192							7.29					Aprill 30	417 bs/day	417 lbs/Day	626 lbs/Day
Sun, Mar 3	3.452							7.29					May1 -	6 Mg/L	6 Mg/L	10Mg/L
Mon, Mar 4	3.434							7.42					Sept. 30	125 Lbs/Day	125 lbs/Day	209 Lbs/day
Tue, Mar 5	3.646							7.29	179				TSS			
Wed Mar 6	3.870	5.0	161	4.0	129	0.60	0.12	7.33		6	4.0		Oct. 1 -	20 Mg/L	20 Mg/L	30 Mg/l
Thu, Mar 7	3.745							7.19					Aprill 30	417 Ths/Day	417 Lhs/Day	626 lbs/Day
Fri, Mar 8	4.110							7.13					May1 -	10 Mg/L	10 Mg/L	15Mg/L
Sat, Mar 9	3.681							7.21					Sept. 30	209 Lbs/Day	209 lbs/Day	313 Lbs/day
Sun, Mar 10	4.712							7.23					NH3	100000		LUSUAY
Mon, Mar 11	4.931							7.09					Oct.1 - Mar.			
Tue, Mar 12	4.650							7.14	4				31	3.3 Mg/L	3.3 Mg/l	5.7 Mg/L
Wed Mar 13	4.281	6.0	214	5.0	179			7.11					Apr. 1 -			
Thu, Mar 14	4.129							7.18					May 31	2.5 Mg/L	2.5 Mg/l	5.7 Mg/l
Fri, Mar 15	3.494							7.22					June1 -			
Sat, Mar 16	3.095							7.15					Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Sun, Mar 17	2.891							7.32					Total Phps	phorus		<u>'</u>
Mon, Mar 18	3.104							7.53					Apr.1 -		*******	******
Tue, Mar 19	2.992							7.39	240				Oct.31	0.2 Mg/L	*********	*******
Wed Mar 20	2.988	5.0	125	2.0	50	2.40	0.12	7.29					Nov. 1 -		*******	*******
Thu, Mar 21	2.983							7.41					Mar. 31	1.0 Mg/L	*********	*******
Fri, Mar 22	2.703							7.27					Ph			
Sat, Mar 23	3.505							7.23						6.5	- 8.3	
Sun, Mar 24	3.547							7.20					E. Coli			
Mon, Mar 25	4.376							7.29					*******	126	*******	409
Tue, Mar 26	5.137							7.28	17				*********	CFU/100ml	********	CFU/100ml
Wed Mar 27	4.433	6.0	222	6.0	222			7.10					Aluminum			
Thu, Mar 28	3.902							7.06					*******	88 ug/l	******	*******
Fri, Mar 29	4.819							7.27					Copper			
Sat, Mar 30	5.490							7.17								
Sun, Mar 31	5.419							7.25								
Daily Max	4.679	6.00	221.83	6.00	221.83	2.40	0.12	7.53	240.00	******	******	******	May 1 -		> 7.4 mg/L	
Daily Min.	2.470	******	*******	******	******	******	******	7.06	******	******	******		Sept. 30	Plan	t Flow	
Month Avg.	3.577	5.50	180.50	4.25	145.00	1,50	0.12	7.25	41	6	4.0	******			MGD	

#### 6.0 ENERGY CONSUMPTION

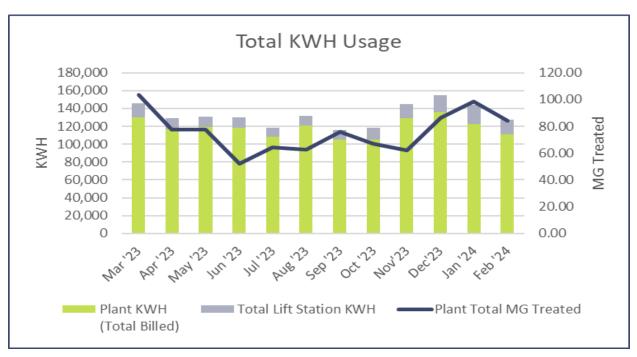
#### 6.1 ELECTRICAL OVERVIEW

The department used a total of **144,108** *KWH* for the month of February 2024. Of this total, the lift stations accounted for **15.1%**, using **21,708** KWH. The Main Plant accounted for the remaining **122,400** KWH. The KWH/ MG treated was **1,242** for the month and the KWH/Lb. BOD Removed was **2.55** KWH/Lb. for the month.

	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	
Mar'23	3.33	103.31	129,600	1,254	103,530	1.25	204	213	15,893	132,293	
Apr'23	2.59	77.57	116,400	1,754	130,686	0.89	198	210	12,637	131,437	
May '23	2.5	77.4	118,800	1,763	151,100	0.79	183	189	12,127	130,327	
Jun '23	1.73	52.04	118,200	2,271	149,709	0.79	183	201	12,127	130,327	
Jul '23	2.07	64.26	108,300	1,685	137,511	0.79	222	231	10,113	118,413	
Aug '23	2.02	62.74	120,600	1,922	142,457	0.85	192	201	10,893	131,493	
Sep '23	2.53	75.95	105,300	1,386	134,488	0.78	195	213	10,331	115,631	
Oct '23	2.16	67	104,700	1,563	134,616	0.78	195	201	13,297	117,997	
Nov'23	2.07	62.06	129,300	2,083	43,777	2.95	207	234	15,313	144,613	
Dec'23	2.79	86.49	135,600	1,568	66,318	2.04	261	273	18,956	154,556	
Jan'24	3.18	98.54	122,400	1,242	48,027	2.55	231	273	21,708	144,108	
Feb'24	2.90	84.23	111,000	1,318		2.00	222	216	21,708	144,108	
Average	2.49	75.97	118,350	1,651	112,929	1.37	208	221	14,592	132,942	



	Monthly Lift Station KWH													
Month	Hingham North	Hingham South	Spruce	Butternut	Old Country Way	Market	Woodsbury	Lincoln	Forest	Wheeler	Summer	Milbrook	John Burke	Total
Mar '23	2,995	5,100	246	434	1,260	851	1,353	283	1,915	58	67	1,524	236	16,322
Apr '23	3,531	4,100	176	0	1,174	781	1,447	311	2,179	82	65	1,922	125	15,893
May '23	2,373	3,800	114	69	956	695	1,034	201	1,587	57	59	1,459	233	12,637
Jun '23	2,040	4,200	145	62	887	409	1,116	186	1,714	65	63	1,064	176	12,127
Jul '23	1,810	3,600	157	57	897	306	868	156	1,159	56	58	891	98	10,113
Aug '23	2,145	3,400	109	58	911	313	838	163	1,933	59	56	818	90	10,893
Sep '23	1,646	3,400	226	53	911	403	967	188	1,478	56	52	874	77	10,331
Oct '23	2,204	3,700	151	60	1,003	792	1,523	257	1,894	91	61	1,389	172	13,297
Nov '23	2,498	4,700	202	64	1,158	886	1,199	337	2,420	65	62	1,488	234	15,313
Dec'23	3,114	6,100	271	83	1,385	1,032	1,648	365	2,724	65	70	1,846	253	18,956
Jan'24	4,218	7,000	735	96	1,548	1,145	1,771	363	2,708	64	71	1,754	235	21,708
Feb'24	2,595	5,400	945	76	1,267	943	1,177	316	2,131	58	61	1,408	256	16,633
Average	2,597	4,542	290	93	1,113	713	1,245	261	1,987	65	62	1,370	182	14,519



## 7.0 MAINTENANCE

#### 7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	175	1,545
Corrective Maintenance	16	148
Emergency Call Outs Total	4	43

#### 7.2 EMERGENCY CALL OUTS FOR THE MONTH

Туре	Total this Month	Total this Year
Sewer Back Up / Collection System	1	5
Pump Station	1	20
Plant	3	14
Odor	0	0
Power Outages	0	5
Total:	5	44

#### 7.3 INSPECTIONS / ANNUAL PMS COMPLETED DURING THE MONTH

- 1. All pump station alarms checked
- 2. Eye wash inspections completed weekly
- 3. Fire extinguisher inspections completed monthly
- 4. Dependable Petroleum monthly UST Inspection

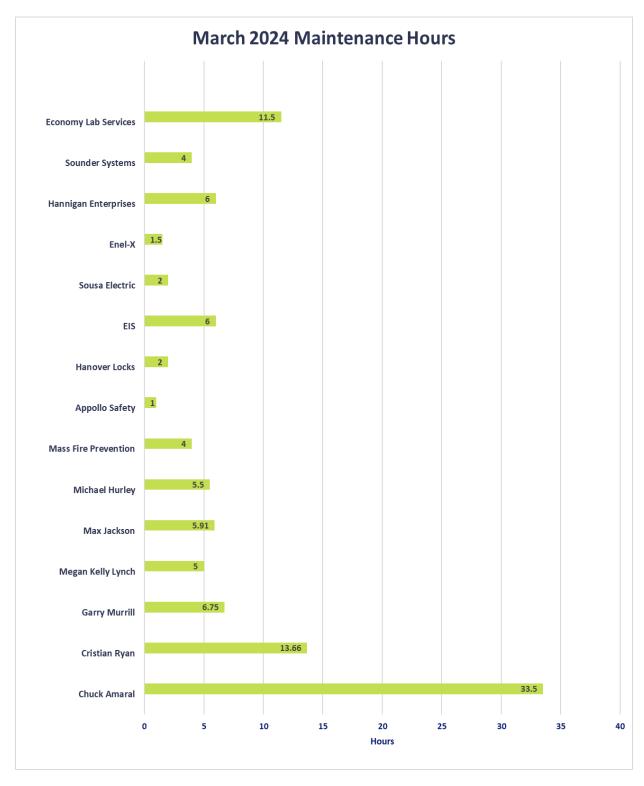
#### 7.4 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

#### **COLLECTION SYSTEM ASSITANCE:**

Туре	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	1
Sewer Location mark Outs	38	538
Sewer Back Up	1	3

#### 7.5 WORK ORDER STATISTICS

There were 108.2 total reported maintenance hours during the month. Of this total, outside contractors accounted for 35% with **38** hours recorded.



## 8.0 FINANCIAL ACCOUNTING- REPAIR / MAINTENANCE (JULY '23 - JUNE '24)

ltem	Budget	Spent Month	Spent Year	Remaining
R & M (Project)	\$100,000.00	\$8,405.79	\$78,402.86	\$21,597.14

#### 8.1 SIGNIFICANT R&M PURCHASES

- 1. EIS upgraded the RAS/WAS and Final to SCADA \$1,656.25
- 2. Sousa Electric repaired LED lights and switches \$1,390.00
- 3. Apollo Safety replaced the oxygen sensor for the Headworks Building \$1,140.00

#### 9.0 ATTACHED REPORTS

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