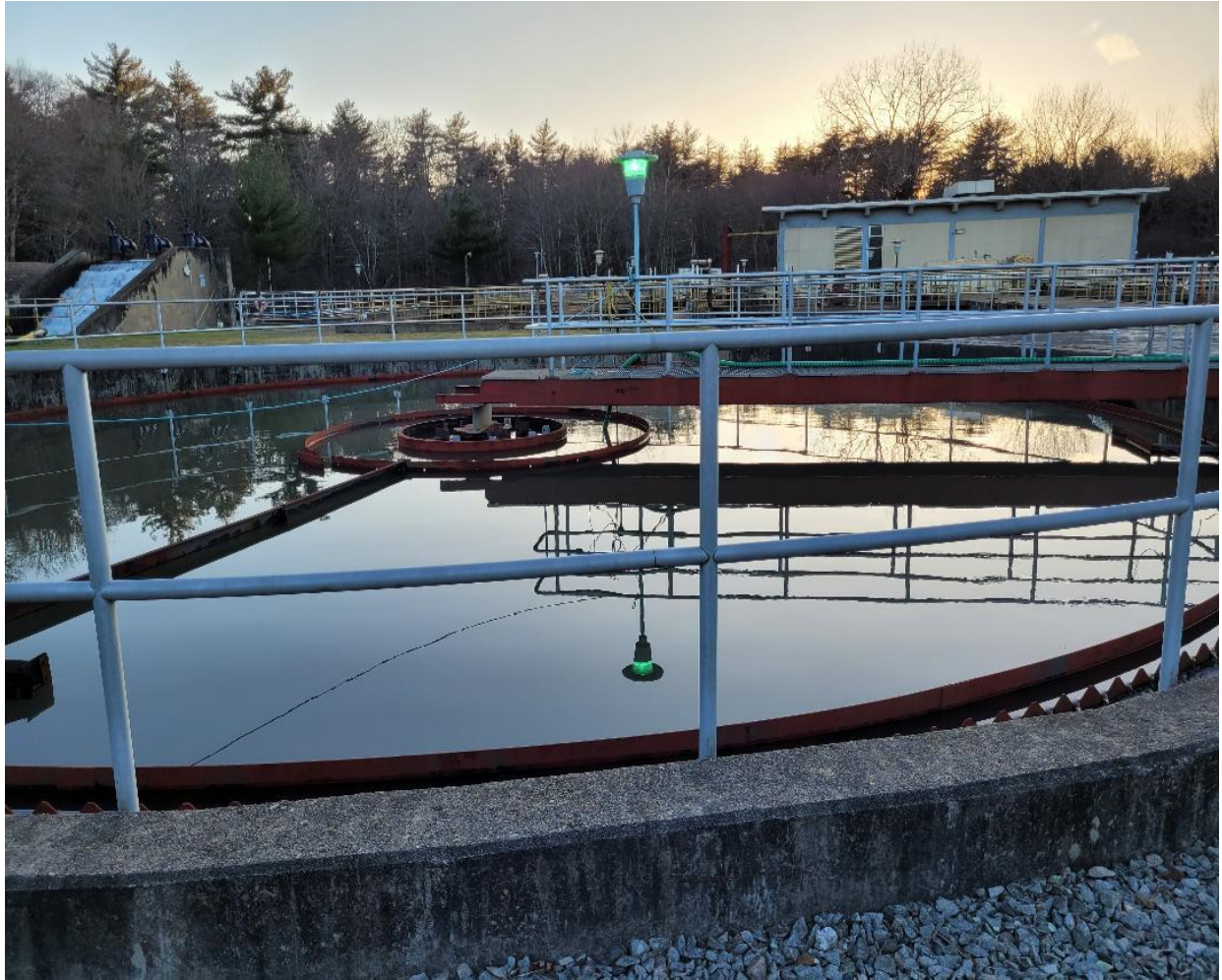


Monthly Operating Report

JUNE 2024



Rockland, MA WWTP





July 15, 2024

Mr. Chuck Heshion

Rockland Sewer Commission Chairman

587 Rear Summer Street

Rockland, MA 02370

RE: Rockland Wastewater Facility

Monthly Report—June 2024

Dear Mr. Heshion,

I have enclosed June'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,

Megan Lynch

Veolia Project Manager

CC:

Daniel Duross

Sherri Vallie

JUNE 2024 MONTHLY OPERATING REPORT

1. SUMMARY:

The facility will be reporting **0** exceedance for the month of June 2024

- 1) There was **0** lost time / first aid injuries throughout the month.
- 2) The facility treated a total of **61.010** million gallons. The average daily flow was **2.034** MGD
- 3) The total rainfall for this reporting period was **2.69"**
- 4) I&I Work is ongoing
- 5) **121** work orders were closed out, with **20** as corrective maintenance work orders and **4** were emergency call outs.
- 6) Massachusetts general wastewater permit began April 1st, 2023

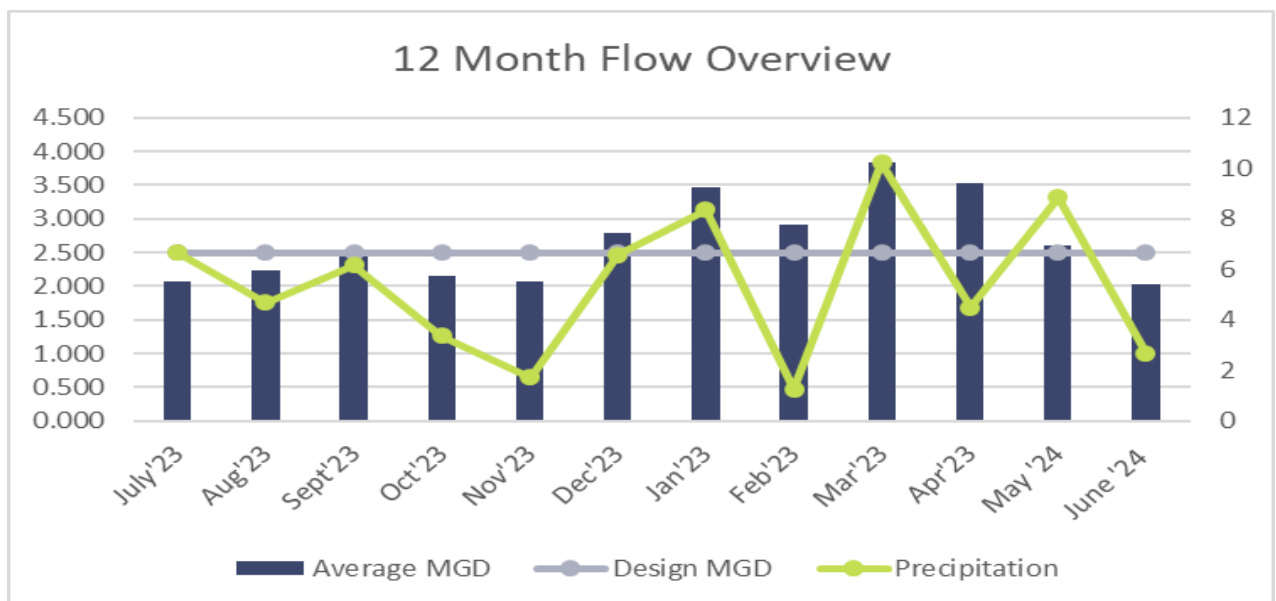
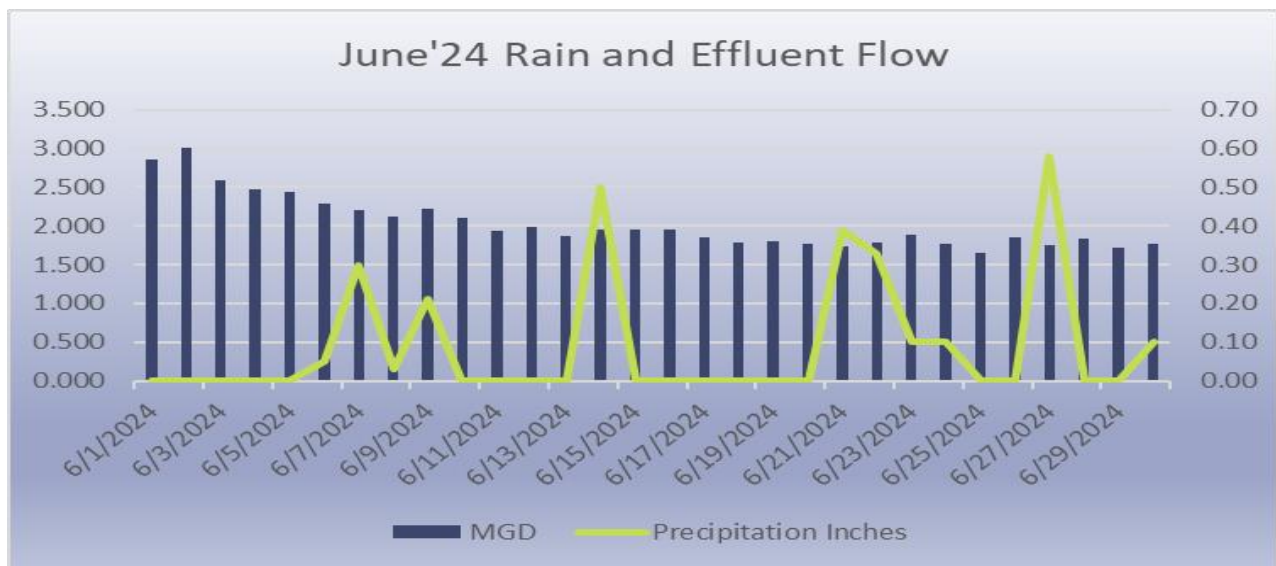
2. STAFFING:

Current Employee Licenses as of 06/1/2024											
		Hoisting		Wastewater				NEWEA Collections			NEWEA Laboratory
Employee	Title	1C Forklift	1B Boom Truck & Forklift	3M	5C	6C	7C	I	II	IV	I
Richard Kotouch	Project Manager						X			X	
Jesse Freeman	Asst. Project Manager					X					
Steven Butts	Lab Technician						X				X
Charles Amaral	Maintenance Foreman				X				X		
Garry Murrill	Operator				X				X		
Cristian Ryan	Operator										
Yuri	Operator				X						
Shaun Chaponis (Part Time Weekends)	Operator				X			X			

3. FLOWS AND LOADINGS:

3.0 FLOWS, PRECIPITATION, AND WEATHER

- The facility treated a total of **61.010 MG** during the month. The daily average flow was **2.034** MGD. This was **0.299** MGD more than the previous June monthly average, which was recorded at **1.735 MGD**. The highest daily flow was recorded on June 2nd as **3.003 MGD**. The lowest daily flow was recorded on June 25th as **1.648 MGD**.
- The highest **peak** flow was recorded on June 2nd as **5.540** MGD.
- A total of **2.69"** of precipitation was received at the facility. The highest single day precipitation total was recorded on June 27th as **0.58"**.
- The coldest day was June 16th at **48°F**. The warmest day was June 20th at **94°F**.



ROCKLAND FLOW AND LOADINGS TRACKING				
Month/Yr	Influent Flow	Effluent Flow	Influent Flow Moving Avg.	Effluent Flow Moving Avg.
	MGD	MGD	MGD	MGD
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	2.760	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
Apr '24	3.886	3.534	2.843	2.609
May '24	2.899	2.614	2.877	2.646
Jun '24	2.317	2.034	2.896	2.671

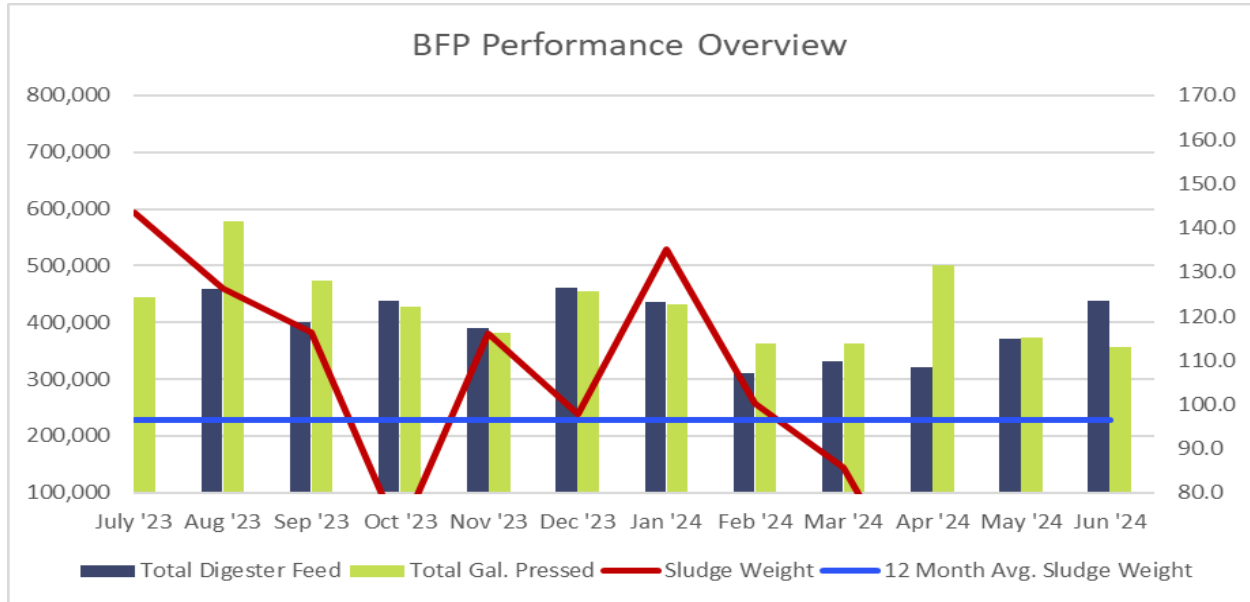
3.2 LIFT STATION FLOWS

The lift stations accounted for 498,947 gallons throughout the month, **8% 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.

Month	Millbrook	Summer	Market	John Burke	Lincoln	Forrest	Wheeler	Woodsbury	Old Country Way	Hingham North	Hingham South	Butternut	Spruce
	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD	GPD
May '23	36,566	874	15,321	4,226	2,786	49,800	784	40,436	52,425	145,800	180,514	2,796	
June '23	32,516	831	12,964	2,983	2,250	50,100	746	34,393	49,575	33,264	178,200	2,411	
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 '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	
Apr '24	31,912	1,099	15,290	3,066	2,787	52,568	842	58,355	78,852	184,994	236,903	5,632	
May '24	33,062	952	14,419	2,245	2,768	53,042	854	47,787	53,381	159,735	204,503	3,339	3629
June '24	27,941	883	12,968	2,036	2,516	47,894	830	40,877	47,352	137,334	173,148	2,700	2,468

4.0 SOLIDS HANDLING

The BFP operated a total of **114.9** hours this month and a total of **357,639** gallons were processed producing **49.30** Wet Tons of sludge that was hauled from the facility. The average BFP feed percent solids were **1.80%** and the BFP Cake average percent solids were **21.50%**.



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
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	
Apr '24	164.0	321,384	500,524	131.2	50.9	1.69	21.51	6.00	
May '24	131.0	371,436	373,008	108.0	66.4	1.81	20.97	5.00	5.00
Jun '24	114.9	438,919	357,639	99.4	49.3	1.80	21.50	5.00	
Annual Total	1,658	4,804,406	4,841,251	1,402	1,158	*****	*****	74	5.00
Avg.	138	400,367	440,114	117	97	2.02	21.84	6.2	*****

5.0 ENVIRONMENTAL COMPLIANCE

5.1 REGULATORY REPORTING

1. The EPA and MADEP March NETDMR was submitted on the CDX website on 7/13/2024.

5.2 NPDES COMPLIANCE

The facility will be reporting (0) exceedance(s) for the month of June 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			
Sat, Jun 1	2.861							7.35				9.7	Oct. 1 - April 30	20 Mg/L 417 lbs/day	20 Mg/L 417 lbs/Day	30 Mg/L 626 lbs/Day
Sun, Jun 2	3.003							7.40				9.8				
Mon, Jun 3	2.599							7.34				9.9				
Tue, Jun 4	2.481							7.40	326			9.7	May1 - Sept. 30	6 Mg/L 125 Lbs/Day	6 Mg/L 125 lbs/Day	10Mg/L 209 Lbs/day
Wed, Jun 5	2.442	4.0	81	2.0	41	0.70	0.10	7.47		7	3.00	10.0				
Thu, Jun 6	2.291							7.50				9.5				
Fri, Jun 7	2.206							7.51				9.5	Oct. 1 - April 30	20 Mg/L 417 Lbs/Day	20 Mg/L 417 Lbs/Day	30 Mg/L 626 lbs/Day
Sat, Jun 8	2.127							7.51				9.6				
Sun, Jun 9	2.218							7.56				9.4				
Mon, Jun 10	2.109							7.64				9.5	May1 - Sept. 30	10 Mg/L 209 Lbs/Day	10 Mg/L 209 lbs/Day	15Mg/L 313 Lbs/day
Tue, Jun 11	1.941							7.63	400			9.6				
Wed, Jun 12	1.991	4.0	66	6.0	100		0.14	7.72				9.5				
Thu, Jun 13	1.877							7.41	64			9.5	Apr. 1 - May 31	2.5 Mg/L	2.5 Mg/l	5.7 Mg/l
Fri, Jun 14	1.962							7.47				9.4				
Sat, Jun 15	1.952							7.34				9.3				
Sun, Jun 16	1.950							7.40				9.3	June1 - Sept. 30	1.0 Mg/L	1.0 Mg/L	1.5 Mg/L
Mon, Jun 17	1.856							7.45				9.5				
Tue Jun 18	1.791	4.0	60	4.0	60	0.60	0.06	7.50	24			9.4				
Wed, Jun 19	1.810							7.50				9.1	Apr.1 - Oct.31	0.2 Mg/L	*****	*****
Thu, Jun 20	1.770							7.48				8.8				
Fri, Jun 21	1.743							7.39				8.7				
Sat, Jun 22	1.784							7.46				8.5	Nov. 1 - Mar. 31	1.0 Mg/L	*****	*****
Sun, Jun 23	1.880							7.46				8.7				
Mon, Jun 24	1.764							7.36				8.9				
Tue, Jun 25	1.648							7.50	345			9.0	Ph			
Wed, Jun 26	1.851	2.0	31	9.0	139		0.07	7.51	15			9.0	6.5 - 8.3			
Thu, Jun 27	1.761							7.47				9.0	E. Coli			
Wed, Jun 28	1.842							7.53				9.2	*****	126 CFU/100ml	*****	409 CFU/100ml
Thu, Jun 29	1.727							7.38				9.5	Aluminum			
Fri, Jun 30	1.773							7.40				9.0	*****	88 ug/l	*****	*****
													Copper			
Daily Max	3.003	4.00	81.47	9.00	138.94	0.70	0.14	7.72	400.00	*****	*****	*****	May 1 - Sept. 30	> 7.4 mg/l		
Daily Min.	1.648	*****	*****	*****	*****	*****	*****	7.34	*****	*****	*****	8.50	Plant Flow			
Month Avg.	2.034	3.50	59.50	5.25	85.00	0.65	0.09	7.47	101	7	3.0	*****	2.5 MGD			

6.0 ENERGY CONSUMPTION

6.1 ELECTRICAL OVERVIEW

The department used a total of **14,551 KWH** for the month of June 2024. Of this total, the lift stations accounted for **9.7%**, using **12,509 KWH**. The Main Plant accounted for the remaining **116,100 KWH**. The KWH/ MG treated was **1,903** for the month and the KWH/Lb. BOD Removed was **0.77 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
Jul '23	2.07	64.26	118,200	1,839	137,759	0.86	183	201	10,113	131,437
Aug '23	2.02	62.74	108,300	1,726	142,542	0.76	222	231	12,127	130,327
Sep '23	2.53	75.95	120,600	1,588	134,488	0.9	192	201	10,113	118,413
Oct '23	2.16	67	105,300	1,572	134,616	0.78	195	213	10,331	131,493
Nov'23	2.07	62.06	104,700	1,687	43,777	2.39	195	201	13,297	115,631
Dec'23	2.79	86.49	129,300	1,495	66,318	1.95	207	234	15,313	117,997
Jan'24	3.18	98.54	135,600	1,376	48,027	2.82	261	273	18,956	144,613
Feb'24	2.9	84.23	122,400	1,453	122,094	1	213	231	21,708	154,556
Mar'24	3.58	110.89	111,000	1,001	128,077	0.87	222	216	16,633	144,108
Apr'24	3.4	101.85	143,700	1,411	158,901	0.9	228	237	17,451	127,633
May'24	2.61	81.03	112,800	1,392	155,428	0.73	210	219	16,066	161,151
Jun'24	2.03	61.01	116,100	1,903	151,206	0.77	186	222	12,509	128,866
Average	2.61	79.67	119,000	1,537	118,603	1.23	210	223	14,551	133,852

7.0 MAINTENANCE

7.1 WORK ORDER OVERVIEW

WO Type	Total This Month	Total This Year
Preventative Maintenance	121	1,991
Corrective Maintenance	20	204
Emergency Call Outs Total	4	55

7.2 EMERGENCY CALL OUTS FOR THE MONTH

Type	Total this Month	Total this Year
Sewer Back Up / Collection System	0	5
Pump Station	0	20
Plant	0	14
Odor	0	0
Power Outages	4	9
Total:	4	48

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

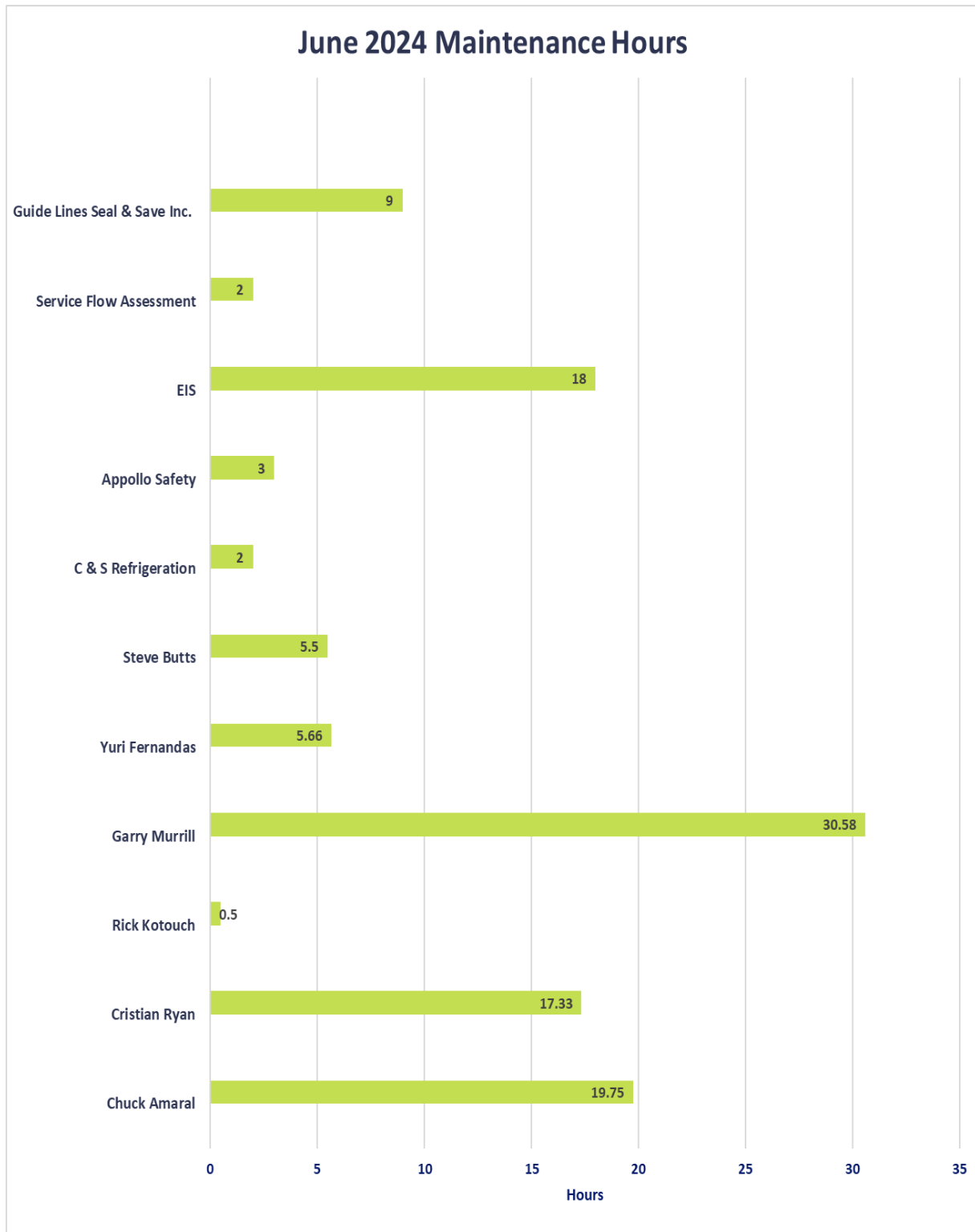
7.4 COLLECTION SYSTEM AND IPP ASSISTANCE PERFORMED BY VEOLIA

COLLECTION SYSTEM ASSISTANCE:

Type	Total This Month	Total This Year
Sewer Inspection / Tie-Ins	0	1
Sewer Location mark Outs	80	758
Sewer Back Up	0	3

7.5 WORK ORDER STATISTICS

There were 115.3 total reported maintenance hours during the month. Of this total, outside contractors accounted for 31% with **36** hours recorded.



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

Item	Budget	Spent Month	Spent Year	Remaining
R & M (Project)	\$100,000.00	\$4,233.38	\$103,126.04	\$(-3,126.04)

8.1 SIGNIFICANT R&M PURCHASES

1. Sousa Electric Installed Controls for Generator Louvers \$850.00
2. Ebay Water Flow Meter for Lime Tank \$558.82
3. Dependable Petroleum 3rd Party UST Inspection \$675.00

9.0 ATTACHED REPORTS

- Discharge Monitoring Report
- Data Reports
- Financial Reports