

Town of Thomaston
ENVIRONMENTAL DEPARTMENT
Report for August 2023

LAGOON PLANT OPERATIONS – This was a difficult month for land application of the treated wastewater. We were able to land apply 8.5 million gallons (MG) with rainfall of 9.14 inches. The volume received for treatment was 9 MG. The storage lagoon was 47.65% full at the beginning of the month and 50.80% at the end. We have identified a large breach in our collection system and are working day and night to seal the breach. The Kubota ATV had to be sent in for servicing.

LAND SPRAYING OPERATIONS – The land applied wastewater was monitored, sampled, and tested as required by our DEP permit and all parameters for spray fields 2, 3, 4, and 5 were within limits. Spray field one continues to remain offline. Efforts are under way to correct long term issues in our fields and each month we get closer to our goal.

CONTROL CENTER OPERATIONS – The laboratory looks better every month. We now can perform NO₃ tests which saves money and gives us instant results.

PUMP STATIONS – Two new pumps were installed at Thatcher Street pumping station ending a long-lived issue with that station.

STAFFING – The hunt for good staff continues. Interviews have been conducted and the search is still underway.

MUNICIPAL UTILITIES – Street lights were in 98% working order. Three lights are down and parts have been ordered.

This month the solar array produced 63,822 kWh of electricity that went to the grid. We were designed to produce 63,545 kWh. CMP bills totaled \$15,846.97 and the Town had \$15,604.24 in credits, with electricity costing a total of \$243.73 for the month.

The solar panels on the roof of the Environmental Department office building and garage produced very well and was all used in the treatment facility. We are hoping to generate more than 58,000 kWh's next month which should equate to no more than a \$500 bill owed. Please note that the breach

mentioned at the start of this report is causing our stations to run in excess and may affect our overall bill by as much as \$2,000.00

SEWER, STORM, AND CLEAN WATER COLLECTION SYSTEM – Testing continues of the clean water and drain systems throughout town and at a variety of times. Results are being assessed. The continued breach is causing a strain on the overall system.

FINANCIALS – The department has expended 31.32% of the FY24 budget at the end of August. This percentage reflects last month's reminder that large ticket item purchases were coming. The budget remains in order and viable. Progress continues in all areas of the Environmental Dept.

Electricity Generated by Solar 2023
(kWh)

	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	
Solar Farm													MTD Total
System C Design	41,021	49,084	60,143	57,737	61,278	57,824	64,848	63,545	56,175	47,937	35,638	32,910	455,480
Actual	27017	40,214	56,012	59,986	81,293	55,707	65,034	63,822					449085
Garage Roof													
System D Design	1,372	1,721	2,173	2,145	2,349	2,247	2,452	2,341	2,002	1,644	1,201	1,092	16,800
Actual	922	1,466	2,284	2,710	3,758	2,582	2,714	2,612					19048
Control Bldg													
System A													
Actual	501	1064	1725	2227	3048	2262	3108	2910					16845

Current trend is up through August 2023

Sunny days ahead!

YTD Total **Combined**
484978

Thomaston's Electric Costs Breakdown for 2023
August 2023

Account Name	CMP Account	kWh	Gross Cost	End Cost	% Of Total	# Billing Days	% Change VS last year
ENVIRONMENTAL DEPT							
Wastewater Control Building	3501-5495-159	17,160	\$3,859.01	\$0.00	42.21%	31.00	18% ↑
Solar Array	3001-3058-604	250	\$242.73	\$242.73	0.61%	31.00	No change
Ship St. Pump Station	3501-5540-061	6,407	\$1,690.45	\$0.00	15.76%	29.00	33% ↑
Water St. Pump Station	3501-5537-810	7,072	\$1,756.42	\$0.00	17.40%	29.00	32% ↑
Thatcher St. Pump Sta.	3501-4297-622	2,248	\$541.28	\$0.00	5.53%	29.00	34% ↑
Fish St. Pump Station	3501-4297-309	2,140	\$517.19	\$0.00	5.26%	31.00	38% ↑
Public Landing Pump Station	3501-5537-737	195	\$83.16	\$0.00	0.48%	31.00	17% ↑
Atticus Hill Pump Station	3501-0390-983	200	\$75.54	\$0.00	0.49%	31.00	64% ↑
Sunrise Terrace Pump Station	3501-0218-796	36	\$38.95	\$0.00	0.09%	31.00	No change
Buttermilk Lane Pump Station	3501-5183-474	3,618	\$1,156.46	\$0.00	8.90%	29.00	33% ↑
Town Line Pump Station	3501-5183-813	1,326	\$335.54	\$0.00	3.26%	31.00	9% ↑
Totals		40,652	\$10,296.73	\$242.73	100.00%		
MUNICIPAL BUILDINGS							
Watts Block	3501-0074-314	867	\$224.38	\$0.00	5.88%	31.00	21% ↑
Watts Hall	3501-4554-386	779	\$204.74	\$0.00	5.28%	31.00	60% ↑
Fire Station	3501-0016-521	2,062	\$491.04	\$0.00	13.99%	31.00	27% ↑
Public Works Building	3501-0291-520	680	\$182.65	\$0.00	4.61%	31.00	5% ↑
Academy Building	3501-6585-511	0	\$39.65	\$0.00	0.00%	31.00	400% ↓
Academy Building	3501-0617-120	3,366	\$987.37	\$0.00	22.83%	29.00	6% ↓
Cemetery Building	3501-0339-568	43	\$40.50	\$0.00	0.29%	31.00	100% ↑
Thomaston Municipal Build.	3501-0109-003	6,945	\$1,713.12	\$0.00	47.11%	29.00	6% ↓
Totals		14,742	\$3,883.45	\$0.00	100.00%		
MUNICIPAL LIGHTS							
Main/Knox Traffic Lights	3501-0072-912	462	\$134.01	\$0.00	6.55%	31.00	29% ↓
Route 1/Dexter Traffic Lights	3501-5882-521	149	\$64.16	\$0.00	2.11%	31.00	No change
Route 1/W.M. Traffic Lights	3501-0469-191	144	\$63.04	\$0.00	2.04%	31.00	No change
Street Lights	3501-2962-136	2,795	\$472.27	\$0.00	39.63%	31.00	No change
Watts Lane Lights	3501-0512-776	266	\$90.27	\$0.00	3.77%	31.00	No change
Starr Street -Rec. Field	3501-5769-389	414	\$120.37	\$0.00	5.87%	29.00	30% ↓
Electric Car Charger	3501-6087-260	2,812	\$658.40	\$0.00	39.87%	31.00	53% ↑
Mall Rd. Christmas Lights	3501-2703-282	11	\$33.36	\$0.00	0.16%	31.00	No change
Municipal Outlets	3501-0096-374	0	\$30.91	\$0.00	0.00%	29.00	170% ↓
Totals		7,053	\$1,666.79	\$0.00	100.00%		
Grand Totals		62,447	\$15,846.97	\$242.73	100.00%		
Cost per kWh				\$0.253767			
CMP billed cost of power for month				\$15,846.97			
CMP solar credit for month				\$15,604.24			
CMP billing error credit for month				\$0.00			
Owed to CMP for power for month				\$242.73			
Final cost of Municipal Buildings				\$0.00			
Final cost of Municipal Lights				\$0.00			
Final cost of Environmental Dept				\$242.73			
Total				\$242.73			
Owed to Environmental Dept				\$0.00			