

Charlestown WWT Utility

February 2023 Summary WWTP

March 13, 2023

Monthly Test Results

Parameter	Results	Permit Limit Requirements	
Average Daily Influent Flow	.872 monthly Avg. (MGD)	2.2 Design Avg. (MGD)	42 % of Capacity
TSS Effluent	2.6 monthly average (mg/l)	30 permit requirement (mg/l)	98.1 % Removal
CBOD Effluent	1.2 monthly average (mg/l)	40 permit requirement (mg/l)	99.1 % Removal
Ammonia Effluent	.211 monthly average (mg/l)	3.0 mg/l permit requirement	98.8 % Removal
Phosphorus Effluent	.8 monthly average (mg/l)	1.0 mg/l permit requirement	80.8% Removal
E.coli	2.0 Monthly geometric means	125 Monthly geometric permit requirement	

The facility operated well during the 15-16 rain event. The treatment process continues to improve and become more stable. The stability is related to the continued effort of the utility staff to reduce the solids inventory. Chemical continues to become less of a demand and more constant/predictable.

Biosolids Removal:

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep	Oct	Nov	Dec	YTD
Tons/Disposed	79.1	108.1											187.23

The facility-maintained compliance on all parameters!

Collection System

Activity/task were performed during the month:

- There were 139 locates with 9 emergency locates performed during the month of November.
- All Lift station were inspected weekly during the month.
- A total of six (6) rain events occurred during the month, The largest events were on February 15-16 at the WWTP. Total Rainfall for the month at the facility Was 2.3.”
- 1575’ liner feet main line was flushed during the month.
- 0’ linear feet main line footage was Televised during the month.

Managers Notes:

Operations continue to improve and the search for a qualified team member has been completed. The newest member of the utility started on February 21.

The new team member collection system experience that will reduce total dependency of outside service request.

Training:

We received and safety/operation training was conducted for the maintenance truck.

Staff :

Improved efficiency/flexibility has been realized in the first week of the newest team member joining the utility.