



THE TOWN OF CENTREVILLE 101 LAWYERS ROW CENTREVILLE, MD 21617  
410-758-1180 FAX 410-758-4741 WWW.TOWNOFCENTREVILLE.ORG

DATE: October 26, 2016  
TO: Steve Walls, Town Manager  
FROM: Clifford Matthews, Director of Public Works  
RE: FY17 Budgeted Purchase Requests

Request #1 – WWTP Ultra Violet Disinfection Unit Replacement

The current Aquionics Ultra Violet system has been out of service for some time now. The price quoted to rebuild the system is \$45,000. While the UV system is out of service, Sodium Hypochlorite is used for disinfection and then Sodium Bisulfite is used to de-chlorinate prior to discharge, adding to our chemical budget. The current system has been costly to maintain and has been out of service more than it has been in service since I have been with the town.

Due to the limited space and plumbing configuration we are limited to very few UV systems that would fit in this application without major redesign and construction. Out of six manufactures solicited only two were able to quote a unit that would fit with only minimal redesign and construction.

The Enaqua system by Grundfos, from Sherwood Logan, priced at \$63,000 and the Ultra Tech UV System, from Kershner Environmental priced at \$90,000.

After much investigation and consultation with colleagues in our industry, we believe we have chosen what we feel is the best fit. The staff recommends the Enaqua system by Grundfos, priced at \$63,000. This price includes the system, recommended spare parts, power panels, and startup and training after installation. W & WW staff will do the install in-house and estimate they can have it up and running in two to three weeks, fitting it in with their normal work week duties. This units designed flow rating ranges from 500,000 to 750,000 gallons per day which will carry the WWTP through the next upgrade.

Considerations were given to serviceability, maintenance, economical replacement parts, and common sense design. Mr. Bozarth, Water and Wastewater Operations Supervisor, was able to visit two locations that use this system to disinfect treated wastewater and have done so flawlessly with only routine maintenance for a number of years.

This purchase was included in the FY2017 Capital Budget at \$65,000.

Request #2 – Water Reuse Farm Irrigation Meter Replacements

The replacement of the existing 10 propeller driven meters with the new proposed Mag Meters will be a considerable savings in the long run. The existing meters must be removed from the system and sent back to Micro Meter for bench calibration at an annual average cost of \$400 per meter, plus the staff time to remove, pack, ship and reinstall. During this three to four week period those irrigation pivots are out of service. The new meters are calibrated in place by the technician for about a third of the annual cost and the units are only out of service for 15 to 30 minutes each at the most. The new meters will tie into the new Field net system that controls and monitors the spray irrigation system. The FieldNET system was installed through last year’s capital budget and has made monitoring and controlling the spray field much more efficient with fewer break downs. The meter reads will be uploaded directly to the system instead of staff having to go to each pivot, each day, and record the flow.

The following price quotes were received:

Distributor	Brand	Total
Horney Industrial Electronics	Siemens	\$22,792.00
HD Supply	Rosemount	\$27,519.50
Omega Engineering	Omega	\$27,647.70

Staff recommends the purchase of the Siemens meters from Horney Industrial Electronics (HIE) for a price of \$22,792.00. The Town has been working with HIE for meter calibration and repair for approximately six years and we are very pleased with their service.

The new meters for the 10 pivots were budgeted at \$23,000 in the FY17 Capital Budget and will be installed by the W & WW staff and take two to three weeks while also completing their normal work week duties.

Respectfully submitted for your consideration,  
Kip Matthews, Director of Public Works