

2019 Capital Projects

C1912 – ESD Milton St. Plant Improvements - \$350k

- Replace TF pump house and CMF Roof – Estimated cost \$220k (from Cap. Proj. Req. Form)
 - o We are working with Tremco, Inc. to collect quotes on the repair/replacement costs as well as an assessment report of the existing condition of all of the Milton Street buildings. A repair to the CMF roof was made earlier this year to fix leaks into the building that would occur when it rains. Since this repair in the spring, the building has not had current issues with leaks though further improvements are still needed and have been recommended from Tremco to occur within the next 2 years. However, the solids building roof is in need of immediate repair and replacement as there are numerous leaks when it rains. This roof was not included in the capital projects for 2019 and was to be included with the 2020 capital projects. The priority for roof replacements this year should be the solids building as the CMF roof can be postponed until next year. Budgetary quotes from Tremco estimate that the solids building roof repairs and replacement would cost \$130,000. We would request that the Sewer District move forward with replacing the solids building's roof this year in place of the CMF roof and look to include the CMF roof in the 2020 capital project instead.
 - TF Pump House Roof – Original Roof, 30 years old. In decent shape and can wait. Should be included on 2020 CRRF. Estimated cost ~\$22,000.
 - CMF Roof – Original Roof, 30 years old. See above. Can wait. Mike to move to 2020 CPRF. Infrared scan of the roof determined one area where insulation is wet and needs to be fully replaced. Estimated cost ~\$260,000 - \$280,000.
 - Solids Roof – Original Roof, 30 years old. CPRF description reads: Roof rehab, air handling, and waste gas burner improvements; all on top of buildings at Milton St. WWTF. Purpose and justification on CPRF lists two buildings above but does not list Solids Roof. Can this project still be used for Solids roof? Solids roof cannot wait and needs to be done this year (refer to photos included herein). Infrared scan of the building roof showed five areas where leaks are occurring. Estimated cost ~\$200,000 - \$220,000 for full repair and roof restoration.



- Replace entrance heater and air handling – Estimated cost \$75k (from CPRF)
 - o The current entrance building heater and air handling unit is not working properly. Specifications have been written and are ready to be put out to bid. This project should be bid out soon as it needs to be completed prior to cold weather. With authorization to move forward, we will work with Tricia and Purchasing to put the project out to bid. **CHRIS/DAVID – After the bids come back and we decide to award the project, what should the process be/whom should we work with for getting the bid award on the legislative agenda and a resolution passed from the legislature?**
 - See above. This needs to be done this year.
- Replace waste gas burner – Estimated cost \$55k (from CPRF)
 - o Operators have looked into this issue further and concluded that we should not move forward with this project at this time. Code requirements have changed and waste gas burners are no longer allowed to be located on the roof and are to be located on the ground. If we replace the waste gas burner, it is advisable to bring it up to current codes and this would require more work than was anticipated during planning for the 2019 capital projects. As such, it makes sense to include this work as part of the consolidation project. **STEVE – Is it possible to reallocate these funds towards other improvements at the Milton Street plant such as the digester wall?** We are expecting preliminary drawings and specifications from Fagan Engineers by the end of next week for the Digester Wall repairs.
 - See above. This can wait. We have received Drawings and Specs for the Digester Wall. We have requested a cost estimate from Fagan Engineers for both alternatives addressed in the bid: replacement with masonry block and replacement with insulated metal panels. Engineers probable cost estimates is as follows: Base bid - \$310,000 (in-kind masonry replacement); Alt #1 - \$20,000 (add alternate that includes addition of 6" drip –edge extension of the digester roof); Alt #3 - \$290,000 (separate bid from base bid where instead of masonry block, walls will be replaced with insulated metal panel system).

C1913 – ESD Collection System - \$200k (\$300k was requested - \$200k approved)

- Excavation and Trenchless Equipment – Estimated cost \$150k (from CPRF)
 - o Matt let us know that a route slip was submitted for mini-excavator. Our crew tested one that is on state contract from Case. We likely need the next size up which would add additional 15-20k to the cost on state contract. We will need to get additional quotes for trailer to tow larger mini-excavator. We need to look into whether or not one of our trucks can tow this size. There have been internal discussions on getting a larger dump truck because our trucks can only haul 2-3 ton of material, which slows down dig jobs. Included in this budget (and to be split with SD1 Collection System Budget) are funds for additional sewer lining equipment. We purchased a spot repair kit for leaky joints (2-4 feet) but Matt wanted to also invest in sewer lining equipment for longer runs (potentially manhole to manhole). This directly relates to what was just requested from us by the DEC regarding I&I in SD #1 **TRICIA – is there a threshold on equipment purchases through state contracts that require legislative approval? We are wondering if we would need one for the trailer, etc.**
- Sewer main and manhole rehabs – Estimated cost \$150k (from CPRF)
 - o Mid Ave. sewer main replacement (330 LF) will eat a large amount out of this budget. We have reached out to Silverline and Wenzel who were awarded RFB – 2109 Infrastructure Construction. **STEVE – Are there also revenue charges for 2019 that can be allocated to ESD Repair and Maintenance? Could we possibly use them for the digester wall and unforeseen repairs in the collections system?**
 - Quote from Wenzel through county bid ~\$61k. Construction is underway. Project will diminish large portion of Capital Project. Mike to update 2020 CPRF accordingly.

C1914 – SD #1 Lake St. Plant - \$400k (\$600k was requested - \$400k approved)

- Site cleanup and restoration – Estimated cost \$150k (from CPRF)
 - o We are working with Fagan Engineers to put together a plan set for these improvements. We plan to use the County bid for construction to do this work. We will work with Ken Hoose as discussed to review drawings prior to issuance.
 - Not an emergency, but overdue. We will continue to move this work forward.
- Clarifier Launderers Rehab
 - o Ken has started to gather quotes for replacement of the primary clarifier weirs. His initial estimate is approximately \$40,000 per tank (\$120,000 total). He is also getting quotes on replacing the launders with fiberglass reinforced plastic (FRP) for comparison.
 - We will continue to move this work forward. Should be addressed this year.

C1915 – SD#1 Collection System - \$200k (\$300k was requested - \$200k approved)

- Excavation, Trenchless Equipment, Sewer Main and manhole rehab
 - o See ESD Collections System above. We are currently televising, maintaining sewer lines in SD #1, as we know that there is Inflow and Infiltration in the system. This may lead us to a large repair. Repairing I&I saves costs for treatment. We are also working on inspecting forcemain air release valves and replacing as needed. Non-functioning air release valves force the pumps to work hard and increase wear and tear on pumps.

2020 Capital Projects

We are going to review with treatment plant operators and maintenance supervisors to discuss anything on the request forms that we were not involved in to get up to speed and to evaluate urgency. The three items that came up in our meeting on 7/22/19 (press building panel, primary clarifier roof and digester recirculation pump) are the top three items on the Lake St. 2020 CPRF. The panel and clarifier roof will need to be removed accordingly since we are planning to work them into the 2019 O&M budgets.

We will revise the budget adjustment request form for the primary clarifier roof and press building panel work. We have received quotes for the roof repair and it is estimated at \$14,900. Press Building work is quoted at \$20,003 for the control panel work and \$18,460 for electrical work (total = \$38,463). Total budget adjustment of \$53,363 to Lake St WWTP repair and maintenance budget.

We talked with Ken Hoose about the digester recirculation pump as the current consolidation plan recommends removing the digesters at Lake St. Without having a defined scope for the treatment processes that will remain at Lake St, we want to exercise caution with where money is spent in the interim. We would recommend leaving the recirculation pump on the 2020 CPRF as discussions continue regarding the treatment processes that would remain after consolidation.

Capital Needs Assessment

We reviewed the CNA that Matt left behind. The costs for 2020 includes the capital project requests that match the forms that Matt had sent to Steve Hoover before his departure. The CNA also includes the consolidation project (totaling \$80.8M) broken out into potential annual costs with construction costs realized in 2022-2024. Also included in the yearly breakout are costs for much needed improvements to the collections systems.