

## Water and Wastewater Items to be Repaired or Replaced

As of 7/14/23

Completed items have been moved to the bottom of the list. Items that have changes since last update are highlighted in green.

### Water:

Tom Allen is waiting on parts and will work us into his schedule as soon as he can.

- Wire and calibrate PH Meter at water house.
  - Had been waiting on Tom Allen for this. Tom advises that he does not perform this work. Staff will reach out to the manufacture to address this issue.
- Replaced failed water tank mixer that is not working.
  - The RFP has been sent out. Bids have been received but have not yet been reviewed by staff.
- Update operators manual at water house.
  - Project is ongoing. Paula Jackson from Vermont Rural Water is assisting on this project
- Common alarm at water house is malfunctioning.
  - The monitoring system for the water pumphouse and tank has been repaired by Tom Allen.
  - Currently the common alarm sends the same alarm for any issue at the wastewater pump station and the water house. Tom Allen is working on separating these two alarm systems so staff can tell if the alarm is coming from the wastewater pump station or the water house. There is also a malfunction that continues to send an alarm which Tom is looking into.

### Wastewater:

- The dialer to the pager from the alarm system needs to have installation finished.
  - The dialer has been installed. In this process it was found that the phone line was inactive. Staff is working on activating the phone line.
- Finish creating checklist for post power outage procedures.
  - A handwritten checklist has been created which needs to be updated to typed format.
- Repair check valve on older pump in the pump station.
  - This work is being scheduled with Phil Laramie.
- Repair one backwash pump. Replace one Backwash pump.
  - The new pump has been installed.
  - A second new pump has been ordered with a ship date of August 3
    - The plan is to purchase a new pump to replace the older pump currently in place. Then use the older pump currently in place along with parts from the pump Phill Laramie has to rebuild a pump to have on hand as a backup.
- Assess why the recently installed grit motor is not functioning properly.
  - Wiring has been addressed but this did not fix the issue as solids are still appearing in the grit. This could be an issue due to the age of the equipment and may not be solved until there is a full replacement of the equipment. There also is still an issue where the

controls at the machine indicate it is running but this is not feeding back correctly to the SCADA.

- Replace auger liner.
  - The liner and the screw were both replaced in Spring of 2022.
  - The screw broke in December 2022. During this repair staff observed that the liner needed to be changed.
  - Need to schedule Phil Laramie to conduct this repair. This is a two-day repair where we cannot accept septage.
- The dewatering press is overdue to be cleaned. It should be cleaned every six months.
  - Staff started this repair just prior to the July 10 flood. The process was resumed later in the week after the flood and should be completed by early in the week of July 17.
- Air valve on dewatering press needs to be replaced
  - Staff will order a new valve and install.
- Repair hazardous gas alarm.
  - Phill Laramie will provide an estimate of cost. Once this is in place quotes will be obtained for the repair.
- Repair UV meter.
  - A \$1,500 UV meter has been purchased and is on site.
  - Installation involves a calibration based on the intensity of the UV lights. Staff is working on determining how to measure the current intensity and will then proceed with installation.
- Clean and repair aeration tanks.
  - Tank 1 has been drained and cleaned. The valve in the tank is operational. The diffusers are operational. The next step is to fill the tank and put it online so tank 2 can be drained and cleaned.
- Clean solids out of all holding tanks.
  - The estimate to clean all tanks is \$115,000 for cleaning and disposal
  - We will proceed with VTums to clean out the front two aeration tanks which are estimated to cost \$21,000 for cleaning and \$10,200 for disposal for a total of \$31,200. This will process will start in June.
  - Staff is still working on options for placement of a containment center for the solids.
- Obtain quotes on meter for septage receiving.
  - A quote of \$68K has been obtained. During the walkthrough for the 20 year evaluation the engineers noted that other parts of the septage receiving system need to be replaced and it may make sense to bid all of the work at once. This pushes the meter purchase off for a few months but that may be the best option for planning purposes.
  - Steve is following up with Hoyle Tanner to see if there is a full meter system which would fit with any style of other septage receiving equipment which needs to be replaced in the future. If so, we may be able to purchase and install the system prior to making a decision on replacement equipment for the rest of the system.
- Anoxic chamber mixer
  - The mixer has been ordered for \$8,000. It should be on site end of July or early August. Staff will install and Dan Pratt will complete the wiring.
- Install screen prior to influent pumps
  - This is a pretty involved project which will be best addressed in the 20 year study

- Repair to non-essential items in wastewater pump station
  - A few mechanical items which are not essential to the operation of the wastewater pump station were damaged in the flood. These items are being replaced by Phil Laramie.

#### **On Hold Items**

- Improve ventilation in the dewatering building
  - Avonda Air assessed the current situation and estimated a cost of \$210,000 to correct the ventilation. This may be best addressed along with all WWTF ventilation in the 20 Year Study.

#### **Completed Water Items**

- Screens on reservoir tank needs to be replaced
  - This task has been completed.
- Water Meter Bids
  - Moving forward with Zenner as of 6/20/23

#### **Completed Wastewater Items**

- Replace the second influent pump.
  - The pump from Phil Laramie has been installed.
- Repair the septage pump.
  - This task has been completed.
- Repair nonfunctioning pump in the pump station.
  - Phil Laramie has repaired the non-functioning pump and replaced the two solenoids.
- Install outdoor control for overhead doors at dewatering
  - This has been completed
- Build steps to the digester.
  - This has been completed.
- Install check valves for the influent pumps
  - This has been completed as of 5/4/23
- Repair meters that measure hours of operation for each pump
  - Dan Pratt has completed this as of 5/4/23
- The auger gear box for the dewatering press broke on the weekend of May 27 – 28.
  - This has been repaired as of June 1, 2023
- The gear box on the horizontal conveyer failed on the weekend of June 10
  - This has been repaired as of 6/19/23
- Calibrate the sensor on the polymer tank and discuss potential corrections to occasional tank overflows.
  - This has been completed as of 6/12/23