Florida Department of Health Onsite Nitrogen Reduction Strategies Study

Contract CORCL

PNRS II TEST FACILITY CONSTRUCTION PROGRESS REPORT #1

Date:	March 19, 2010
NTP Date:	January 29, 2010

Construction of the PNRS II test facility was started February 15th. Below is a list of items completed to date.

I. PNRS II Test Facility Construction JTD

- A. Installed Tanks and Accessories
 - 1. Wooden platform has been constructed
 - 2. Flowmeters on existing OSTDS system dose pipes
 - 3. 1050 gallon STE storage tank (Tank 1) and influent pipe
 - 4. (11) Stage 1 Tanks
 - 5. (5) Stage 2 Single-Pass Tanks
 - 6. (4) STE & Recirculation Mixing Tanks
 - 7. (1) Denite Feed Tank
 - 8. (4) Recirculation Pump Tanks
 - 9. Hydrosplitter tee, petcock valves, tubing
 - 10. Geotextile fabric Mirafi FW700
 - 11. Drain pipe
 - 12. Potable water line installed and connected to existing system
- B. Procured Pumps and Accessories
 - 1. P2, P3, P4, P6, P7, P8, P9, P14, P15 Little Giant pumps
 - 2. P5 In-situ simulation tanks peristaltic pump drive, (2) 1-channel pump heads
 - 3. P10 and P11 Stage 2 peristaltic pump drive, (2) 2-channel pump heads for stage 2 filter, and (1) 1 channel head for glycerol

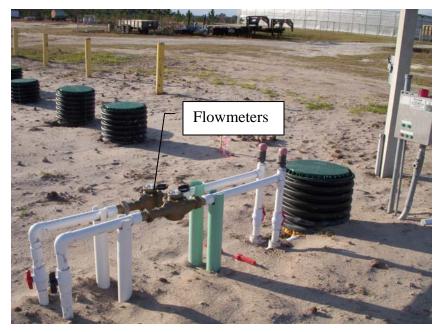
Hazen and Sawyer, P.C

- C. Electrical
 - A 15 KVA step-up transformer was installed to the existing 208 volt, 3 phase power feeder to increase the voltage to 480 volt, 3 phase to reduce voltage drop in the 700 foot long feeder. A 15 KVA step-down transformer was installed to feed the existing pump system 120/208 volt power. A second 15 KVA step-down transformer was installed to feed our new system 120/240 volt power.
 - 2. Main Control Panel is being manufactured by American Manufacturing estimated delivery 4/5/2010.
- D. Buildings
 - 1. The storage shed (8' x 16') has been delivered and installed near the wooden platform.
 - 2. The 28' x 50' shade cover roof has been delivered and will be installed next week.

II. Photos Showing Various Components of the Test Facility



1050 Gallon STE Storage Tank 1



Flowmeters for Existing OSTDS System



Wooden Platform North Side



Installing Tanks



Installing Potable Water Line



Mixing Media (Clinoptilolite 8X14 and Oyster Shell)



Media Storage



Gravel at the Bottom of the Tanks



Installing Geotextile Fabric above Gravel at Bottom of Tanks



Installing Media in Tank (UNSAT-EC-3) above Geotextile Fabric



Tamping Media (UNSAT-CL-3)



Installing Sample Piezometers within Stage 2 Upflow Tank (DENIT-LS-2)



Installing Media within 6" x 72" L Stage 2 Filters (DENIT-SU-1)



Hydrosplitter 1



Hydrosplitter 2



Storage Shed



New Electrical Transformers

