

**TANGIPAHOA PARISH REGIONAL SOLID WASTE FACILITY
MEETING – DECEMBER 12, 2017
Leachate Pumping System**

Diaphragm Pumps

- Clarify where we are on the pump curves
- Need to identify the specific model of pump we will be using (1.5 in metallic?)
- Address maximum dry suction lift information (14 ft. max spec in ARO Manual)
- Leachate force main before wet well (max) = 120 gpm (3 pumps at 40 gpm each)
- Leachate force main after wet well (max) = 500 gpm (based on T4 performance curves)
- With 120 gpm flow rate, 4 in. force main = 3.1 fps flow velocity.
- Contact Stormwater force main (max) = 1850 gpm = 4.1 cfs (assumed open cell with 9-inch rainfall, 6.59 min TOC, and 11 acres). This corresponds to 20 fps flow velocity in 6-inch force main.
- Cell 13 catchments: sump 1 - 3.2 acres and 6.58 min TOC, sump 2 – 3.8 acres and 7.09 min TOC, sump 3 – 4 acres 7.48 min TOC.
- $NPSH_{available} = 15$ feet. Based on assumption that leachate in sump is at atmospheric pressure, sump bottom is at 92 ft, and the pump is at 107 ft.
- Print pages 32-33 from ARO manual. Do we have to work out the details for the ordering serial number?
- Wet well capacity = 1700 gallons.