



Prominent ProMix Startup

Plaquemine, LA

July 28, 2009



Delivery and Setup:

Unit arrived fully assembled. All that was needed to put the unit in service was a 10AWG extension cord (customer request for trial) and we were ready to feed into their process. For the sake of trial, we used a garden hose as a water source to the unit. Once sufficient flow was determined based on the polymer % makedown desired we began pressing sludge.

Performance:

The supplied peristaltic pump was easily primed and we were off and running. I brought a large syringe to aid in pump priming, but I didn't need it. Previous units we have tried often plugged up quickly due to poor check valve design. This was not the case here. The unit quickly made a very homogenous fully activated polymer solution. This is crucial to dewatering sludge in an efficient manner.



Cost Savings:

Previously, the city was using an antiquated dry polymer makedown unit to feed to beltpress. The unit didn't wet the polymer efficiently and was very hazardous to operate due to the slip and fall conditions that operators were required to work in during polymer makedown. The promix unit eliminated these conditions and will ultimately pay for itself by making full use of the chemical that is being fed. Better activation = less polymer to do an equal job.

The city was using 30-40 lbs of dry polymer to press a 30 yd rolloff box full of dewatered sludge. We were able to do the same job with about 4 gallons of a emulsion polymer. This is drastic decrease of chemical usage when considering that the liquid polymer is only about 50% active. The final sludge water content was lower as well which also greatly reduced costs to transport and dispose.

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