PRECAST CONCRETE TANKS
For
Wastewater Treatment Systems
Pouring base slab

Sloped Floors
Individual compartments
Virtually no limit to size
Keyway Forms for sloped floor

Bottom of keyway form is laid level - sides are sloped
Erecting Precast
Panels are delivered to site by truck or they can be poured right on site
A crane sits on slab & lifts panels into place
Joint Sealing

After erection complete, joint sealing procedure implemented.

1. Hydraulic cement is applied to joints inside and outside of tank.
2. A 3” -4” strip is applied over the joint once grout is set up.
3. CIM 1000 is injected into the joint at bottom of panel until it comes out at top of panel.
Joint Sealing Cont.

Procedure & Special Pump

STEP #1
Insert #0000 soap into each pipe at the base of the panel. Completely fill the joint until it becomes the top of the panel too.

STEP #2
1/4" pipe with #0000 soap cast into bottom of each pipe cap. The pipe will have a tapered adapter allowing for hose up to #0000 soap system. Each pipe will extend to the center of the panel too.

STEP #3
Fill all voids from the inside of the joint after the application of panels exterior and interior tips.

TYPICAL SECTION:
VERTICAL JOINT IN VERTICAL WALL PANEL
Joint Sealing Cont.  
Typical Core samples for piping through tank walls
Plain finish

Decorative finish
WATER TESTING

Each compartment is water tested to approximately one (1) foot below the top of the panel. Adjacent compartments are empty.

Tanks are tested with no backfill around the outside.

Once testing is completed, tanks are drained, backfilling to desired level can be completed and tank(s) are ready for service.
Extended Aeration WWTP

- Decorative Exterior Finish
- Catwalks and railings around each tank
- Air lift pumps for efficient pumping
- All equipment accessible for catwalks
- Hoist provided to lift heavier equipment
- Complete redundancy built in
SBR with Tertiary Filters

Town of Bath
Wastewater Reclamation Facility
Bath, North Carolina

40,000 GPD
SBR w/ Tertiary Filters

Design, Engineering & Construction by:
TL Contracting, Inc / AMD Solutions, Inc for
HTI Systems, LLC Precast Concrete Tank Systems

Consulting Engineer
MacCounell & Associates, PC
Cary, North Carolina

3/27/2014
Design & Engineering by Wedotanks.com Systems, LLC
SBR with BNR (Biological Nutrient Removal)

- All equipment accessible for top of tank
- Equipment plugs for ease of changing pumps & other equipment
Expansion made easy to existing plants

✓ Simply add 3 sides to existing plant- (We design this into our plants)
✓ Existing plant remains in complete operation during expansion process

➢ 30K/day addition to existing 60K Extended Aeration Plant-
   New capacity is 90,000 Gal/Day.
➢ Also added sodium hyprochlorite addition for disinfection
Expansion made easy

Expansion to existing Tank Systems

Our precast concrete tank system is easily expandable, simply by adding three (3) additional sides to any of our tank systems. An example of a recent expansion is shown below.

During original construction extended footings are added on the side to be expanded.

Base slab and footings for new addition are added while the existing plant remains in operation.

Completed plant is ready for service

This was a 30,000 GPD addition to an existing 60,000 GPD plant.
Precast Concrete or Cast-in-Place – We do both
Harbor Beach-3.0MG CSO
(Combined Sewer Overflow w/built in lift station)

Top of tank used for concerts in summer
& skating rink in winter
AUBURN, IN

3.0 MG CSO with direct outfall w/disinfection

Design & Engineering by Wedotanks.com Systems, LLC
Water tank with pumping system. Ideal for irrigating golf course, potable water storage & reserve fire protection.
Advantages of our system

✓ Our team of experienced professionals will provide long term sustainable solutions for your Water and Wastewater needs.

✓ Compact design.

✓ Less site invasiveness and more land for development.

✓ Permitting through Startup for a complete and compact system.
A typical 750,000 GPD that is already permitted in the US.

- Extended Aeration
- Biological Nutrient Removal (BNR)
- Grit Removal
- Equalization
- Biosolids Storage
- Control Building
- Tertiary Filters
- U-V Disinfection
Simulations are run on all designs with our unique simulation software to assure the design will meet effluent requirements.