

# Piney Point Wastewater Remediation, Palmetto, FL

## Siemens Treats Up to 1 MGD of Brackish, Acidic Pond Water at Bankrupt Fertilizer Plant

In May 2002, Siemens Water Technologies, formerly USFilter, signed an initial agreement with the Receiver which led to a two-year contract to support the Florida Department of Environmental Protection's remediation initiative for the Piney Point fertilizer plant.

Piney Point is the site of an inactive fertilizer facility. Following bankruptcy filing by the parent company in 2001, the state of Florida took responsibility for the site and its closure. Heavy rainfalls and a tropical storm in 2001 demanded immediate treatment and disposal methods be implemented. The potential for breach of the pond dikes and hundreds of millions of gallons of acidic wastewater releasing into Tampa Bay prompted the need for remedial services.

Siemens provided a solution to treat the wastewater utilizing our extensive Mobile Treatment fleet. The wastewater being treated contains high TDS with tremendous scaling potential at a low pH. The Mobile equipment included high rate clarification using ballasted floc reactor technology, followed by filtration units, reverse osmosis (RO) and demineralization. The contract is performance based, with guarantees on discharge water quality following treatment with the Siemens system.

### Significant Accomplishments

Siemens provided a quick, complete on-site treatment solution. Strategic solutions included numerous options for removing the wastewater off-site by truck hauling, barging and use of existing lime treatment and aeration systems. Siemens provided a unique treatment solution based on patented high rate clarification using ballasted floc reactor technology coupled with RO, which had not previously been used as the treatment standard for this type of wastewater.

Siemens helped reduce the volume of wastewater at the site to facilitate closure.

Facility	Surface Water Remediation Phosphogypsum Mining
Application	Total Dissolve Solids, Brackish Water
Technology	Mobile treatment (Clarification, Filtration, Reverse Osmosis, Demineralization)
Scope of Services	System Design Project Management Installation Operation Service Maintenance
Start Date	May 2002

Top: Aerial photo of 540 acre site  
Bottom: Partial view of equipment. Total includes: (7) trailers, (6) skids and (8) vessels.





Siemens Water Technologies North America Service Network

### North America Service Network

Our North America service network is backed by more than 80 offices staffed with certified technicians and applications experts who can solve your problems. In addition, Siemens Water Technologies provides response flexibility through either a lease or capital purchase option, and the company offers assured liability protection through environmentally safe waste destruction.

### Services Available

- Activated carbon supply, removal and reactivation services
- Filter media supply and removal
- Ion exchange resin supply
- Membrane supply and cleaning programs
- Parts and expendables
- Service contracts
- Temporary/emergency water systems

### Technologies Available

- Reverse Osmosis (RO) membrane filtration
- Conventional clarification and filtration
- Oil/Water separation
- Granular activated carbon adsorption
- Demineralization
- Inorganic metals removal
- Chemical addition

Siemens Water Technologies delivers cost-effective, reliable systems guaranteed for quality, safety, and compliance. Our trained service staff is available to make sure your systems is running at peak performance and to your specification. For your water treatment system, choose the partner that is committed to taking care of the world's water...and yours.

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