Project Completed: 2009

Contact: Atmore Utilities Board
Mr. Jim Johnson 251-368-2135

Scope:
- Provide engineering design and construction services for the upgrades to the existing wastewater treatment plant
- Included installing diffused aeration into the existing Aeration Basin to increase the oxygen transfer into this reactor which produces a higher level of oxygen transfer efficiency
- Controls for dissolved oxygen input were installed along with new blowers
- The existing Clarifiers were converted to Aerobic Digesters
- New clarifiers, new tertiary filters, a 24 MG equalization basin, and storm flow pump station were added, as well as a new generator, new aeration system, and a Class A sludge system

Construction Cost: $8,000,000
AUBURN SOUTHSIDE WASTEWATER TREATMENT PLANT

Auburn, Alabama

Project Completed: 2005
Contact: Auburn Water & Sewer Board
Former Manager, Mr. Rex Griffin 334-887-4910

Scope:

- Designed an upgrade to the facility to increase its average daily flow to 9.0 MGD and a peak of 27.0 MGD
- Included the installation of a new headworks with mechanical screens and grit removal, two anoxic pretreatment cells, additional aeration capacity for the existing diffused aeration system, the modification of parallel flow trains into a series type flow system, one new rim flow clarifier, a raw sewage lift station upgrade, clarifier flow control system, and a complete sludge handling facility with belt filter press, polymer feed, lime stabilization and aging cribs.
NEW WASTEWATER TREATMENT PLANT
Bayou La Batre, Alabama

Project Completed: In Progress
Project Cost: $21,900,000
Contact: Bayou La Batre Utilities Board
Mr. Marlin Johnson 251-824-2172

Scope:
- Designed a new wastewater treatment plant (WWTP) that will consolidate three existing effluent discharges into Portersville Bay into one collection/treatment system and one NPDES
- The design ADF for the facility will be 3.0 MGD with a peak of 9.0 MGD and will serve the City’s domestic wastewater, BJV-Bayou Joint Venture industrial seafood and one private seafood industry
- The three waste streams will be combined into one new master lift station to be located at the existing municipal treatment plant. The existing facility will be abandoned
- The combined flow stream will be pumped approximately 7500’ to a new WWTP
- WWTP headworks will include two mechanical fine drum screens and a screenings compactor, as well as a vortex grit removal system and classifier
- The headworks system will also include an odor control system. The biological nutrient removal system will consist of a dual cell anaerobic basin, a three cell aeration basin and two circular clarifiers equipped with spiral blade sludge scrapers
- The aeration basin will be sized to accommodate the large BOD and TSS loadings of the seafood processes
- Finally, will then pass thru a self cleaning tertiary sand filter filter and then to the ultraviolet disinfection system and will also include a three cell aerobic digestor for sludge handling and a belt filter press for sludge dewatering
Project Completion: December 2011 (Est)
Project Cost: $2,850,000 (Phase I)
Contact: Water Works and Sewer Board of the City of Gadsden
Mr. Jack Davis (256) 543-2884 Ext. 212

Scope:
- Provided design and construction engineering services for an upgrade to both trickling filter wastewater treatment plants
- Phase 1 includes new headworks systems for each facility including fine screens, grit removal, and piping
- Phase 2 is currently under design and includes chemical precipitation of phosphorous, sludge digester improvements, solids de-watering building and equipment / disinfection and de-chlorination.
- Phase 3 should advertise for construction in the first quarter of 2012 and the estimated cost is approximately $12,500,000.
Project Completed: January 2008  Construction Cost: $3,000,000
Contact: City of Greenville Water & Sewer Board
Ms. Velma Briggs 334-382-6661

Scope:
- Provided design and construction engineering services for an upgrade to an existing three cell lagoon treatment system for the City of Greenville
- Designed a new 2.0 MGD mechanical treatment plant which included an open flight siren lift station, mechanical self-cleaning screen, grit and grease removal unit, dual aeration basins with integral interior clarifiers, chlorine/de-chlorination facility, and a cascading saturator prior to discharge
- We also utilized the first and largest of the three lagoons as a sludge stabilization and storage facility
HONDA/LINCOLN WASTEWATER TREATMENT PLANT
Lincoln, Alabama

Project Completed: 2001
Construction Cost: $8,000,000
Contact: City of Lincoln Mayor Lew Watson
256-763-7777

Scope:
- Designed 2 new wastewater treatment systems – one 2.0 MGD municipal orbal system and a 0.5 MGD Honda orbal system
- Activated-sludge treatment facility with dual treatment capability for the industrial and municipal wastewater streams, raw sewage lift station, ultraviolet disinfection, tertiary filtration and river diffuser
LOXLEY WASTEWATER TREATMENT PLANT
Loxley, Alabama

Project Completed: 2005

Construction Cost: $3,000,000
Contact: Town of Loxley
Mr. Tommy Hudson 251-964-5162

Scope:
- Design services for a new 0.75 MGD extended aeration wastewater treatment facility with a peaking factor of 3 for a peak flow of 2.25 MGD
- The new facility includes a raw sewage screw lift station, mechanical screen/compactor, grit/grease removal system, Schreiber Counter Current aeration basin, clarifier
- Disinfection system, effluent pump station, sludge pump station, laboratory/office building, converting the existing lagoon into a raw equalization basin with decant
- Converting the existing polishing ponds into waste stabilization ponds and all other related items necessary for a complete wastewater treatment facility
MADISON WASTEWATER TREATMENT PLANT
Madison, Alabama

Project Completed: 2002
Construction Cost: $23,000,000
Contact: Madison Water and Wastewater Board
Retired Manager, Whitey Bressette 256-772-0253

Scope:
- Developed and designed a new 6 MGD Wastewater Treatment Facility, Main Trunk Sewer, and Lift Station to handle the entire city’s current and future wastewater needs
- This activated-sludge treatment facility included an odor control system at the headworks, ultraviolet disinfection system, and river diffuser
MILLBROOK WASTEWATER TREATMENT PLANT
Millbrook, Alabama

Project Completed: 2008
Completion Cost: $5,315,000
Contact: City of Millbrook Mayor Al Kelley 334-285 6428

Scope:
- Provided professional design services for an expansion of a 0.5 MGD extended aeration wastewater treatment facility to a 1.0 MGD facility
- The new WWTP included a Schreiber Counter Current aeration basin, clarifier, disinfection system, effluent pump station, sludge pump station, and laboratory/office building
- Most recently, the plant was upgraded utilizing the USF Cannibal Sludge process, one of the first in the United States
NORTH I-10
WASTEWATER TREATMENT PLANT
Mobile, Alabama

Project Completed: 2004

Scope:
- Provided the design and construction engineering services for a decentralized sewer treatment facility to serve the North I-10 Elementary School, and to provide sewer for several subdivisions at the I-10 Interchange near McDonald Road
- Utilized the Orenco AdvanTex Treatment System to provide a 30,000 gpd plant consisting of filter pods, a recirculation tank, dosing tank, pumping equipment and a geo-flow drip system
- The facility was designed with the ability to upgrade to a 200,000 gallon per day capacity

Contact: Mobile County Water and Sewer Board
Doug Harwell 251-423-2410
**Opelika East Side Wastewater Treatment Plant**

Opelika, Alabama

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**Project Completed:** 2005

**Construction Cost:** $6,918,426

**Contact:** City of Opelika

Mayor Gary Fuller 334-705-5150

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**Scope:**

- Provided professional design services to upgrade the existing wastewater treatment plant, an Eimco Carrousel plant with an average daily flow of 1.3 MGD / peak flow of 3.9 MGD
- Designed a 3.7 MGD addition which brought the total plant capacity to 5.0 MGD average daily flow and a peak flow of 12.5 MGD
- Included the installation of a new raw sewage lift station, headworks with mechanical screens and grit/grease removal, three stage biological nitrification/denitrification process in both the existing and new treatment trains, two new clarifiers, ultraviolet disinfection and mechanical post aeration
PINE CREEK WASTEWATER TREATMENT PLANT
Prattville, Alabama

Project Completed: 2007  Contact: City of Prattville Robby Anderson 334-361-3605

Scope:
- Designed improvements to the activated sludge treatment facility to increase its ADF to 4.0 MGD and peak flows to 10.0 MGD
- This upgrade included the replacement of the raw sewage mechanical screen, replacement and upgrade of existing aeration equipment, the installation of a new clarifier and splitter box
- Improvements to the chlorination system as well as designed new and replaced equipment in the aerobic sludge digestors
THARP TOWN
SCHOOL
TREATMENT
SYSTEM

Tharptown, Alabama

Project Completed: 2006
Construction Cost: $864,000
Contact: Franklin County Board of Education
Mr. Gary Williams
256-332-1360

Scope:
- The project consisted of the installation of a 25,000 gallon per day package wastewater treatment system, ultraviolet disinfection system, approximately 3,000 linear feet of force main, and a surface water discharge.
- The package wastewater system included two 25,000 gallon single wall fiberglass reinforced plastic primary treatment (septic) tanks and three 40,000 gallon single wall fiberglass reinforced plastic tanks with attached growth package recirculating media filter (PRMF) for treatment of domestic wastewater.
- The treated effluent has met the regulatory discharge permit limits of 10 mg/l BOD5, 10 mg/l TSS, 125 count/100 ml E Coli, and 1.5 mg/l Ammonia as Nitrogen since it was put into operation in January 2007.
Project Completed: 2004

Contact: Water Works and Sewer Board
Mr. Bill Allen 334-567-8404

Scope:

- Designed an extended aeration facility that included raw flow meters for each of the separate sources, raw lift station, aeration basin equipped with high speed floating aerators and mixers, clarification, chlorine contact, post aeration facility, affluent meter, effluent pump station, and river diffuser.

- Modifications included upgrades to the raw sewage lift station, construction of an effluent pump station, and a new sludge handling building including 2.0 meter belt dewatering press, conveyor and dry solids handling/spreading equipment.