



STATEMENT OF QUALIFICATIONS

Water/Wastewater



Adams & Christensen Engineering, Inc.
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SUMMARY

Adams & Christensen Engineering, Inc. (*ACEng*) is an engineering firm specializing in evaluation and design of wastewater, process water, domestic water, and storm water management and treatment for industrial clients. *ACEng's* principals bring over 60 years of water and wastewater experience in the following industries:

- Food & Beverage
- Centralized Waste Treatment (CWT) Facilities
- Steel Producing
- Power Generation
- Pulp & Paper
- Rail
- Automobile Manufacturing
- Landfill
- Dairy
- Construction Firms
- Engineering Firms

Our experience includes source reduction, wastewater reuse, water balance studies, hydraulic modeling, water treatment for process usage, feasibility evaluations, permitting assistance, and wastewater treatment system design, construction, operation, and equipment manufacturing.

ACEng offers evaluation and consulting services along with process, mechanical, civil, structural, controls & instrumentation engineering and design services for field erected systems or modular skid-mounted components/systems.

Our Principals have Professional Engineering Licenses in 30 states, Certificates of Authorization in 21 states, and are an ISNet World registered and compliant contractor.

SELECT PROJECT EXPERIENCE

Wastewater Pretreatment System, Confidential Site

Complete Water Services, LLC – Taylorsville, Indiana

Process mechanical design of a DAF-based wastewater treatment system as part of a new plant. Work included piping design and layout, hydraulic modeling, and pump selection.

Wastewater Pretreatment System, Dyma Brands

Complete Water Services, LLC – Bremen, Georgia

Process mechanical design of a DAF-based wastewater treatment system as part of a new plant. Work included piping design and layout, hydraulic modeling, and pump selection.

Wastewater Pretreatment System, UTLX

Complete Water Services, LLC – Cleveland, Texas

Project Manager and Engineer for process mechanical design of a DAF-based rail car wash water treatment system modifications. Work included piping design and layout, hydraulic modeling, and pump selection.

Wastewater Pretreatment System, King’s Hawaiian Bakery

Complete Water Services, LLC – Flowery Branch, Georgia

Process mechanical design of a DAF-based wastewater treatment system as part of a new plant. Work included equipment layout, piping design and layout, hydraulic modeling, and pump selection.

Wastewater Pretreatment System, The J.M. Smucker Co.

Complete Water Services, LLC – McCalla, Alabama

Process mechanical design of a DAF-based wastewater treatment system as part of a new plant. Work included piping design and layout, hydraulic modeling, and pump selection.

Wastewater Pretreatment System, Castellini Company

Complete Water Services, LLC – Atlanta, Georgia

Process mechanical design design of a DAF-based wastewater treatment system as part of a new plant. Work included equipment layout, piping design and layout, hydraulic modeling, pump selection, and HVAC design.

Biosolids & Septage Processing Facility

Sedron Technologies – Indiantown, Florida

Worked with Sedron Technologies to develop Engineering Report for permit approval of a biosolids and septage dewatering facility and served as the Professional Engineer of Record for the permitting process.

Wastewater Treatment System Modifications

Underground Injection Well Pretreatment System – Mulberry, Florida

Developed design and construction expansion of a Central Waste Treatment (CWT) facility to be implemented in three phases. Work included piping system design, P&ID development, development of associated specifications and equipment schedules.

Wastewater Treatment System Modifications – 30% Design**Shamrock Environmental Corporation – Browns Summit, North Carolina**

Developed 30% Design for expansion of a Central Waste Treatment (CWT) facility. Expansion included new unloading pumping system, new settling tanks for Class A, B, and C wastes, and associated piping and instrumentation.

Wastewater Treatment System Modifications – Membrane System**Shamrock Environmental Corporation – Browns Summit, North Carolina**

Developed final design and construction documents for expansion of a CWT facility. Expansion included a new membrane treatment system for Subcategory C Waste.

Wastewater Treatment System Modifications – Unloading & Equalization**Shamrock Environmental Corporation – Browns Summit, North Carolina**

Developed final design and construction documents for expansion of a CWT facility. Expansion included a truck unloading system, strainers, and equalization tanks.

Mobile Treatment System**Shamrock Environmental Corporation – Browns Summit, North Carolina**

Developed preliminary drawings for a mobile waste treatment system for rapid deployment at multiple sites.

Basis of Design for CWT**Shamrock Environmental Corporation – Tampa, Florida**

Developed a Basis of Design Memorandum, general arrangement drawing, and process flow diagrams for a proposed CWT facility.

Low Volume Wastewater Piping Reroute**Interstate Power and Light (IPL) – Lansing Generating Station, Lansing Iowa**

Design of piping modifications and addition of a new effluent storage tank for wastewater generated at a coal-fired power plant. The design consisted new piping, new tank with oil detection system, CO₂-based pH adjustment system, heating and recirculation systems, effluent monitoring, and new outfall.

Non-Grease Trap Waste DAF Project**Environmental Remedies – Atlanta, Georgia**

Process mechanical design of a DAF-based waste treatment system including unloading station and storage tanks.

Wastewater Lagoon Building Design**General Mills – Belvidere, Illinois**

Designed a building to enclose an existing wastewater lagoon. The existing building was close to failure. The wastewater entered the building at 85-90°F which resulted in significant evaporation and re-condensation of corrosive wastewater on the building structure and infrastructure. The building design included HVAC design to minimize evaporation and building structure and surface protection to minimize condensation-related damage.

Water Filter Modification Design**General Mills – Belvidere, Illinois**

Completed piping design for the addition of a second water filter within in an existing facility. We developed a 3-D model of the room's existing geometry and contents and used the model to work with the client to evaluate multiple equipment locations and piping routes to best meet their construction and operational needs. The model was used to develop construction drawings.

Sewer Modification Design**General Mills – Belvidere, Illinois**

Designed modifications to existing process and sanitary sewer systems to redirect water softener regeneration water and boiler blowdown water from the process sewer system to the sanitary sewer system. The design included piping design, flow monitoring station design, excavation/trenching requirements, and restoration requirements.

Dissolved Air Filtration (DAF) Installation Cost Estimate**General Mills – Belvidere, Illinois**

Developed a cost estimate to purchase and install a DAF-based wastewater treatment system.

Drinking Water Filling Station Installation Design**Woosh Water – Miami Beach, Florida**

Developed permit and construction drawings and specifications for installing 25 drinking water filling stations throughout Miami Beach, Florida. Work included foundation design, developing water supply and electrical power requirements, and developing code and local-ordinance required restoration drawings and specifications.

pH Adjustment System Design**Coca-Cola Refreshments – Houston, Texas**

Completed process, mechanical, civil, structural, plumbing, and HVAC design for a wastewater pH adjustment system and associate building at a bottling facility. The design consisted of a lift station, oil-water separator, transfer pumps, two wastewater equalization/pH adjustment tanks, discharge control and monitoring system, chemical feed system, and control and storage building. ACEng served as the engineering partner in a design-build team to design and install the system.

Oil/Water Separator Installation Design**Coca-Cola Refreshments – Harahan, Louisiana**

Developed installation drawings for an in ground oil/water separator for a bottling facility.

WWTP Effluent Storage**Bakken Development Group – Williston, North Dakota**

Evaluated treatment and storage options for treated residential sanitary waste from a residential development. The design included pumping system, force main, and effluent storage lagoon.

Frack Water Treatment System**Confidential Client – North Dakota**

Provided design assistance to Wenck Associates for design of a wastewater treatment system to treat Stage 1 and Stage 3 drilling fluids from fracking operations. Specific tasks included reviewing and finalizing P&IDs, developing project specifications, selecting pumps and instruments, and developing piping plans.

Domestic Wastewater Treatment System**Confidential Client – North Dakota**

Provided design assistance to Wenck Associates for design of a wastewater treatment system to treat domestic/sanitary wastewater from fracking operations. Specific tasks included reviewing P&IDs, developing project specifications, selecting instruments, and developing piping plans.

Wastewater Treatment System Permit Assistance

Waste Management CID Recycling and Disposal Facility – Calumet City, Illinois

Provided design support and permitting assistance for a new anaerobic digester for waste activated sludge from the facility’s aerobic treatment tanks.

Wastewater Treatment System Permit Assistance

Waste Management CID Recycling and Disposal Facility – Calumet City, Illinois

Developed Engineering Report to support permit applications for expansion of an existing Central Waste Treatment (CWT) Facility. The expansion included re-permitting previously closed equipment, repurposing existing equipment by converting a former anaerobic digester to an aerobic treatment tank, and adding new equipment.

Ash Sluice Water Supply System Evaluation

Alliant Energy - Marshalltown, Iowa

Developed conceptual design and cost estimate for reusing wastewater from on-site settling ponds for sluicing boilers. Conceptual design consisted of headworks, a duplex vertical turbine pumping system, piping with heat trace and insulation, filtration, and electrical power distribution and protection.

Coal Pile Runoff Treatment System

Alliant Energy – Ottumwa, IA

HVAC and electrical design of a coal pile runoff treatment system for a coal-fired power plant. Provided full-time construction oversight and served as owner’s engineer during construction.

Hydraulic Assessment – T&W RNG Generation Facility

SustainRNG – Eatonton, Georgia

Hydraulically modeled manure pumping systems to aid in operations optimization at an existing dairy manure-to-RNG facility.

Hydraulic Assessment and Modifications Design – Liberty RNG Generation Facility

SustainRNG – Liberty North Carolina

Hydraulically modeled manure pumping systems to aid in operations optimization at an existing dairy manure-to-RNG facility and developed design documents for system recommended and requested improvements.

P&ID Development for Cooling Water System

Steel Mill - Ghent, Kentucky

Conducted field inspection and data gathering of a non-contact cooling water system for a steel mill and developed current P&IDs of the system.

Hydraulic Model Development for Cooling Water System

Steel Mill - Ghent, Kentucky

Developed a P&ID and a Hydraulic Model of the mills Direct Cooling Water (DCW), Indirect Cooling Water (ICW) and Make-Up Water systems. The model was developed in Pipe-Flo Professional and utilized an active Microsoft Excel interface to allow the owner to import production parameters into the model and receive Excel-based system performance reports for pumping systems, cooling tower performance, and make-up water requirements.