

# HTH Engineering & Equipment LLC

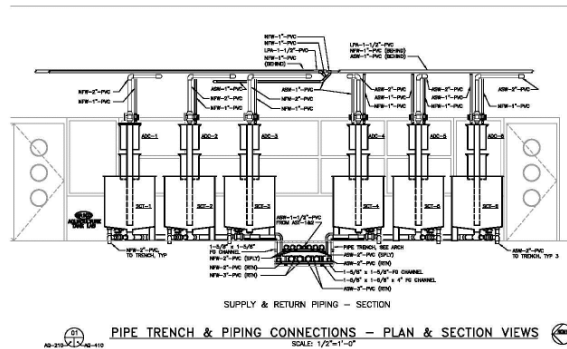
## Aquatic Animal Husbandry and Aquatic Systems Engineering

### PROFESSIONAL AQUACULTURE AND AQUATIC SYSTEMS ENGINEERING SERVICES

HTH principals bring forth more than 35 years of relevant international experience. Our associates and principals are well known for providing exceptional aquatic animal husbandry and aquatic ecosystem engineering services. We are registered professionals in both biology and engineering and active in the Aquacultural Engineering Society, Aquatic Animal Life Support Operators, World Aquaculture Society and other technical organizations.

### SIGNATURE AQUACULTURE SYSTEMS

HTH provides practical, experienced-based design, systems integration and construction support services. Our approach to project solutions incorporates the benefits of our extensive experience and service capability to deliver high quality water treatment and aquatic life support systems that are robust, reliable, maintainable, and energy efficient.



From Concept . . .

**Planning and Analysis – experience-driven approach to develop projects, manage costs and minimize risk.** Based on extensive experience with advanced aquatic system technologies, HTH provides a full range of consulting services which includes feasibility studies, site surveys, and development of project cost models. Feasibility studies address aquatic habitat and animal welfare needs along with infrastructure, water quality and other environmental performance criteria. Site surveys focus on suitability for intended purposes, water, sewer and power utilities, and other infrastructure requirements. Comparative analysis techniques are used to show the effects of alternative project solutions on overall project costs and duration. In existing facilities, process and facility assessments focus on opportunities for reducing energy consumption, labor and other operating costs.

**Integrated Design & Construction – clear, concise project solutions – on time, on budget.** HTH provides comprehensive conceptual, schematic and detailed design services tailored to match the client's project needs and schedule. Design services can include development of detailed construction plans and specifications for competitive bidding. Or, the design effort can be integrated with independent construction and installation resources to quickly deliver high quality, cost efficient systems and facilities. For existing facilities, retrofit design provides for staged construction to minimize the impact on animal husbandry and other ongoing operations.

**Operations and Improvement – much more than just “operations and maintenance.”** From concept to reality, HTH becomes an integral part of the Project Team, and a powerful advocate for the mission and objectives of the project owner and his managers and operators. HTH brings forth decades of hands-on experience during on-site construction reviews; system startup, testing, adjustment and training; operations and maintenance planning; and sustained facility operations.

# Aquatic Animal Husbandry and Aquatic Systems Engineering

## JOHN L. HOLDER, R.P.Bio

Mr. Holder is a Registered Professional Biologist in British Columbia with over 35 years of aquatic systems planning, design, construction and operations experience. John has worked with numerous species, systems and facilities on six continents. This includes marine and freshwater finfish, shellfish and crustaceans for research, development, restoration, aquaculture and public display. Email: JHolder@island.net Skype: john.leslie.holder Tel: 250.897.1334 Courtenay, British Columbia CANADA

## PAUL L. HUNDLEY, JR. P.E., LEED AP

With degrees in Ocean and Mechanical Engineering, Mr. Hundley has 24 years of aquaculture and aquatic systems and facilities experience in North and South America. He has worked with both marine and freshwater species in batch, flow-thru, recirculating and open-water systems. Paul has led numerous multidiscipline project teams for planning, designing and commissioning large aquatic animal research and aquarium facilities. Paul.Hundley.Jr@gmail.com Skype: paul.hundley1 Tel: 704.577.3574 Charleston, South Carolina Hiawassee, Georgia USA



. . . to Reality!!

- **Project Management** – With extensive planning, team building and project delivery resources in North America, HTH is dedicated to providing high quality, professional aquaculture and aquatic engineering services.
- **Customer Service** – HTH project managers have been in the business of meeting customer needs for over 35 years.
- **Client Solutions** – In recognition of a changing aquatic animal husbandry and systems engineering industry, HTH can support a full range of integrated project delivery solutions.

## Signature Systems & Technologies

- Influent and Effluent Water Treatment
- Advanced Biofiltration
- Tanks and Solids Management
- Gas Stripping and Oxygenation
- Advanced Water Reuse Technology
- Aquatic Animal Life Support
- Heating, Cooling and Energy Recovery
- Ultraviolet and Ozone Disinfection
- Algae, Rotifer and other Live Feed Production
- Quarantine and Offsite Holding
- Monitoring, Controls and Alarms

## SERVICES AVAILABLE

Consulting & Project Management  
Feasibility Studies & Cost Estimates  
Facility & Systems Planning & Design  
Facility Assessments & Expansions  
System Design & Process Integration  
Energy Assessments & Optimization  
Commissioning & Troubleshooting  
Operations & Maintenance Support

## FOR MORE INFORMATION

about our professional services and signature systems please visit us on the Web at: [www.HTHaqua.com](http://www.HTHaqua.com)

**HTH** engineering & equipment llc

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