



## **Gaydos Hydro Services, LLC**

**PO Box 55802**

**St. Petersburg, FL 33732-5802**

**727-667-6786**

# **Dana J. Gaydos**

## **Principal & Senior Environmental Scientist**

### **EDUCATION**

- ✦ M.S. Marine Science (Biogeochemical Modeling) - University of South Florida at St. Petersburg - 2006
- ✦ B.S. Marine Biology/Chemistry - University of North Carolina at Wilmington - 2000

### **PROFESSIONAL AFFILIATIONS**

- ✦ FDEP Watershed Monitoring Sampler Training (2001)
- ✦ Hazardous Waste Operations & Emergency Response (2002-2012)
- ✦ FDEP Stormwater Erosion & Sedimentation Control Inspector (2012)

### **FIELDS OF SPECIALIZATION**

- ✦ Environmental Resource Permitting (ERP)
- ✦ National Pollutant Discharge Elimination System Permitting (NPDES)
- ✦ Water Use Permitting (WUP)
- ✦ Underground Injection Control Permitting (UIC)
- ✦ Water Resource Development and Planning
- ✦ Water Level and Water Quality Monitoring
- ✦ Statistical Analysis
- ✦ Interaction with Regulatory Agencies
- ✦ Management of Multi-Site Projects and Programs

### **EXPERIENCE SUMMARY**

Ms. Gaydos started Gaydos Hydro Services in March 2010 after working for 8 years with another small environmental and hydrology consulting firm. There she worked as an Environmental Scientist managing various projects including water resource planning, permitting and hydrology. She has extensive experience with hydrologic and water quality data collection, analysis, and interpretation, Water Use Permitting, National Pollution Discharge Elimination System permitting, Underground Control Injection Permitting, and large scale project management throughout the state of Florida and the Gulf of Mexico. Dana has worked diligently in growing GHS over the last 2 years to include both private- and public-sector clients.

- ✦ Development and implementation of several large scale groundwater monitoring projects.
- ✦ Preparation of water use permit applications from small general to individual permits.
- ✦ Statistical analysis of water pumpage, groundwater elevations and water quality for several large private sector clients.
- ✦ Project manager for design and construction of a Class V injection well in Bartow, Florida for a research initiative for the Aquifer Recharge and Recovery Program.



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**SELECTED PROJECT EXPERIENCE**

Ms. Gaydos served as the project manager for the collection of groundwater and surface water elevations in a network of monitoring wells and surface water bodies around the Crystal River Power Plant to model both site wide and local groundwater flow. Responsibilities included development of monitoring methodology, data collection, data analysis, and report preparation. Conclusions included the pattern of direction and gradient of groundwater flow with the impacts of tidal fluctuations and subsurface impermeable barriers causing local mounding or the redirecting of groundwater flow.

She provided statistical support for the analysis of potential impacts of the production wellfield on surficial and Floridan water levels, wetland hydrology and water quality as required by the Alternative Water Supply (AWS) within the Site Certification Conditions. Local and regional trends were analyzed specifically for salt water intrusion impacts. Statistical support has been expanded to include another subset of production wells for a site wide assessment. All analysis and conclusions are currently being used to develop the AWS condition with the Southwest Florida Water Management District.

Ms. Gaydos is the project manager for the development and implementation of a habitat suitability index for the Pellicer Flats Mitigation Bank. Existing conditions included mass mosquito ditching within a large salt marsh. Data collection included water elevation, water quality, and biomass of benthic organisms, oysters, fish and birds pre-construction. Data interpretation was used to extrapolate predicted changes within the various parameters post construction of the removal the mosquito ditches and regrading of several spoil piles to induce higher sheet flow within the area.

She was also the project manager for the development and implementation of the Environmental Monitoring Program for the Waters Edge and Oakleaf Hammock communities as required by the Water Use Permit. The project included the collection of wetland vegetation and hydrologic data using various techniques including UMAM. Statistical interpretation of rainfall, water level elevations and UMAM scores are provided in annual reports on behalf of the community to the Southwest Florida Water Management District.

She was the project manager for a multi-phase research project funded by both the Southwest Florida Water Management District and the Florida Institute of Phosphate Research that design, constructed and operated a natural treatment system for the surface water from a cooling pond used by an electric power generating plant. Wetlands and filtration using sand tailings created on existing clay settling areas (CSA's) treat the water from the cooling pond as it flows through the treatment system. Part of this research was evaluation of the interactions of different waters with the matrix of the Floridan Aquifer using a series of bench tests to determine of the naturally treated water would cause the dissolution of pyrite (release of arsenic) when these waters were injected into the Floridan aquifer.