



GARY F. GOFORTH, P.E., Ph.D.
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SUMMARY Gary Goforth, P.E., Ph.D. has more than 25 years of experience in water resources engineering, encompassing strategic planning, design, permitting, construction, operation and program management. For the last 19 years, his focus has been on large-scale environmental restoration programs in the Kissimmee-Okeechobee-Everglades ecosystem. He was the Chief Consulting Engineer during the design, construction and operation of the \$700 million Everglades Construction Project, containing over 41,000 acres of constructed wetlands. He is experienced in water quality treatment design and evaluation, engineering design and peer review, systems ecology, statistical hydrology, hydrologic and hydrodynamic modeling, environmental permit acquisition and administration, and public education.

PROFESSIONAL EXPERIENCE

Presently President and Principal Engineer, Gary Goforth, Inc.

1/97-12/2004 CHIEF CONSULTING ENGINEER, South Florida Water Management District (SFWMD). Responsible for strategic planning, design review, development of operational plans, and program management of Everglades restoration projects. Provided factual and expert witness testimony in State and Federal courts.

4/94-12/96 DIRECTOR, Everglades Program Management Division, Ecosystem Restoration Department, SFWMD. Developed and implemented a management system for over 50 projects comprising the Everglades Program, estimated value of approximately \$800 million. Responsible for state and federal coordination of Everglades Program implementation, including acquisition and administration of environmental permits.

12/88 - 4/94 DIRECTOR, Project Management Division, Construction Management Department, South Florida Water Management District. Responsible for coordinating the planning, engineering design, permitting and construction of capital facilities.

8/86 - 12/88 SR. WATER RESOURCES ENGINEER, Resource Operations Dept., South Florida Water Management District. Developed a functional prototype of a decision support system to aid in the operation of the agency's 250 major water control facilities.

12/83 - 7/86 RESEARCH ENGINEER, Dept. of Environmental Engineering Sciences, University of Florida. Evaluated the technical feasibility of using a large-scale centrifuge to investigate the movement of hazardous waste through soil. Appointment included



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assignment at the U.S. Army Engineer Waterways Experiment Station; provided engineering support in the design of dredged material containment areas.

- 6/81 - 11/83 WATER RESOURCES ENGINEER, Espey, Huston and Assoc., Inc., Austin, Texas. Participated in numerous water resources projects, including hydrologic modeling in support of stormwater management systems for lignite mines, numerous water quality studies and hydrodynamic modeling of thermal discharges on estuaries.
- 1/80 - 5/81 GRADUATE RESEARCH ASSISTANT, Dept. of Environmental Engineering Sciences, University of Florida. Conducted field sampling and analyzed the impacts of thermal discharges from a nuclear power plant on marsh productivity.
- 2/77 - 12/79 RESEARCH ASSISTANT, Dept. of Environmental Engineering Sciences, University of Florida. Conducted field sampling to determine the nutrient dynamics in a freshwater marsh receiving secondary waste effluent.

LEGAL TESTIMONY

- 1995 – 2006 Federal court, qualified as an expert in environmental engineering, water quality treatment and constructed wetlands
- 1996 State land condemnation hearing; qualified as fact witness in environmental permitting
- 1997 State of Florida administrative hearing; qualified as an expert in environmental engineering, water quality treatment and constructed wetlands
- 2003 State of Florida; factual testimony to the Environmental Regulation Commission during hearings to develop a Phosphorus Water Quality Standard for the Everglades

EDUCATION

- Ph.D. May 1986, Environmental Engineering Sciences, University of Florida, Gainesville, Florida; Dissertation: "Technical Feasibility of Centrifugal Techniques for Evaluation of Hazardous Waste Migration." Course work focused on soil physics, surfactant chemistry, groundwater hydrology and physical and computer modeling.
- M.E. June 1981, Environmental Engineering Sciences, University of Florida, Gainesville, Florida. Thesis: "Long-Term Performance of Stormwater Detention Facilities: A Comparison of Design Methodologies." Course work focused on applied and statistical hydrology, surface water hydraulics, operations research, and systems ecology.
- B.S.E. December 1979, Environmental Engineering Sciences, University of Florida, Gainesville, Florida. Course work focused on comprehensive environmental engineering curriculum.



PROFESSIONAL REGISTRATION

Registered Professional Engineer – Florida, No. 35525
Certificate of Authorization – Florida, No. 26236

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

PUBLICATIONS – Proceedings, Peer-reviewed Reports and Refereed Journal Articles

Goforth, G., J. Heaney and W. Huber, 1981, "A Comparison of Design Methodologies for Stormwater Detention Facilities," Proceedings ASCE National Convention, St. Louis, Missouri.

Goforth, G., 1983, "An Advancement in Hydraulic Modeling of Porous Pavement Facilities," in Proceedings of Conference and Water Quality Model User Group Meeting, January, 1983.

Goforth, G., J. Heaney and W. Huber, 1983, "Comparison of Basin Performance Modeling Techniques," ASCE, Journal of Environmental Engineering, Vol. 109, No. 5, October 1983, pp. 1082 - 1098.

Goforth, G., 1984, "Evapoconsolidation in Fine-grained Material," in Proceedings, ASCE Waterway, Port, Coastal and Ocean Division, Specialty Conference on Dredging, Clearwater, Florida.

Goforth, G. 1987, "OASIS - The South Florida Water Management Advisor," presented at the Spring 1987 Conference of the American Geophysical Union, Baltimore Md.

Goforth, G., 1987, "OASIS: Florida's water management expert system," in AI Week, Applied Artificial Intelligence Reporter, November 1, 1987.

Goforth, G., "OASIS - The South Florida Water Management Advisor," Proceedings of the First Florida Artificial Intelligence Research Symposium, May 4-6, 1988.

Series of Articles Presented at the 1988 ASCE Water Resources Planning and Management Conference, Norfolk, Va., June 2, 1988:

"An Operations Advisor for Regional Water Management", with T. MacVicar.

"Design of the OASIS Advisory System," Goforth, G. F.

"What I Thought You Said When I Asked You What You Thought," with R. E. Slyfield.

"Knowledge Representation Within OASIS," Goforth, G. F.

"The OASIS Prototype," Goforth, G. F.



- Goforth, G. F., 1988, "Advisory System for South Florida Water Management," proceedings of the 3rd Water Resources Operations Management Workshop, Ft. Collins, Colorado, June 1988.
- Goforth, G. F., J. S. Tongue, 1989, "OASIS - The South Florida Water Management Advisor," presented by J. Tongue at the 5th International Conference on Interactive & Processing Systems for Meteorology, Oceanography and Hydrology, January 1989, Anaheim, California.
- Floris, V., G. F. Goforth, 1990, "Planning the Development of the OASIS Advisory System," proceedings 17th Annual Water Resources Planning and Management Specialty Conf., ASCE.
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- Goforth, G., F. Townsend and D. Bloomquist, 1991, "Saturated and unsaturated flow in a centrifuge," *Proceedings of Centrifuge 1991*, A. A. Balkema, pp. 497-502.
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- Guardo, M., L. Fink, T.D. Fontaine, S. Newman, M. J. Chimney, R. Bearzotti, and G. Goforth, 1995, *Large-Scale Constructed Wetlands for Nutrient Removal from Stormwater Runoff: An Everglades Restoration Project*. *Environmental Mgmt.* Vol. 19, No. 6, pp. 879-889.
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- Goforth G., 1999, *Integrated Strategy to Achieve Water Quality Goals by 2006*, Chapter 12 in *Everglades Interim Report*.
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- Goforth G., 2000, *Surmounting the engineering challenges of Everglades restoration*, In: *Proceedings 7th International Conference on Wetland Systems for Water Pollution Control*, University of Florida, Gainesville, Florida, pp. 697-705.
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- Chimney M., Nungesser M., Newman J., Pietro K., Germain G., Lynch T., Goforth G., Moustafa Z., 2000, Stormwater Treatment Areas – Status of Research and Monitoring to Optimize Effectiveness of Nutrient Removal and Annual Report on Operational Compliance, Chapter 6 in *2000 Everglades Consolidated Report*.
- Redfield G., Chimney M., Goforth G. and Rizzardi K., 2000, Major Findings and Preliminary Implications of the 2000 Everglades Consolidated Report, Chapter 15 in *2000 Everglades Consolidated Report*.
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- Payne G., K. Weaver, G. Goforth, and T. Piccone, 2005, Status of Phosphorus and Nitrogen in the Everglades Protection Area, Chapter 2C in *2005 South Florida Environmental Report*.
- Goforth G., Pietro K., M. Chimney, J. Newman, T. Bechtel, G. Germain, and N. Iricanin, 2005, STA Performance, Compliance and Optimization, Chapter 4 in *2005 South Florida Env. Report*.
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- Pietro, K., R. Bearzotti, M. Chimney, G. Germain, N. Iricanin and T. Piccone; Contributors: W. Abteu, V. Ciuca, C. Combs, G. Goforth, T. Griffin, G. Hwa, M. Imru, D. Johnson, E. Fogarty-Kellis, R. S. Huebner, M. Korvela, J. Galloway, N. Jimenez, T. Kosier, N. Larson, R. Mierau, J. Newman, K. Snell, D. Thayer, L. Toth, C. Wilson and S. Xue, 2007, STA Performance, Compliance and Optimization, Ch 5 in 2007 South Florida Environmental Report.



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- Goforth, G., August 2005, Operation Plan for the Taylor Creek/Grassy Island Stormwater Treatment Area, prepared for the South Florida Water Management District.
- Goforth, G. and R. Meeker, August 2005, Vegetation Management Plan for the Taylor Creek/Grassy Island Stormwater Treatment Area, prepared for the South Florida Water Management District.
- Goforth, G., August 2005, Performance Plan for the Taylor Creek/Grassy Island Stormwater Treatment Area, prepared for the South Florida Water Management District.
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- Goforth, G., January 2006, Operation Plan for the Ten Mile Creek Water Preserve Area, prepared for the South Florida Water Management District.
- Goforth, G., January 2006, Performance Plan for the Ten Mile Creek Water Preserve Area, prepared for the South Florida Water Management District.
- Goforth, G., January 2006, Interim Operation Plan Stormwater Treatment Area 1 East, prepared for the South Florida Water Management District.
- Goforth, G., February 2006, Integrated Operation Plan Stormwater Treatment Areas 5 and 6, prepared for the South Florida Water Management District.
- Goforth, G., February 2006, Integrated Pollution Prevention Plan Stormwater Treatment Areas 5 and 6, prepared for the South Florida Water Management District.
- Goforth, G., March 2006, Updated Operation Plan Stormwater Treatment Area 2, prepared for the South Florida Water Management District.



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- Goforth, G., August 2006. Conceptual-level Sizing Analysis of the Proposed EAA Storage Reservoir STA, prepared for the South Florida Water Management District.
- Goforth, G., July 2006. Lake Okeechobee Regulation Schedule Study - Evaluation of the Base Condition and the Tentatively Selected Plan on the Performance of STA-3/4, prepared for the South Florida Water Management District.
- Goforth, G., June 2006. Five-Year Summary Of Operations Affecting WCA-1, prepared for the South Florida Water Management District.
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- Goforth, G., August 2006. Conceptual-level Sizing Analysis of the Proposed EAASR, prepared for the South Florida Water Management District.
- Goforth, G. October 2006. Sizing Analysis of the Proposed EAASR STA - Final Draft, prepared for the South Florida Water Management District.
- Goforth, G. December 2006. EAASR STAR Preliminary Alternatives Evaluation, prepared for the South Florida Water Management District.
- Goforth, G. February 2007. Evaluation Of An Alternative Method For Assessing Compliance With The Load Reduction Expectations Of The Settlement Agreement, prepared for the South Florida Water Management District.
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- Goforth, G., N. Iricanin, S. Hill, S. Xue, T. Piccone, F. Nearhoof, K. Weaver 2007. Technical Support Document for the STA-5 TBEL. June 2007.
- Goforth, G., N. Iricanin, S. Hill, S. Xue, T. Piccone, F. Nearhoof, K. Weaver 2007. Technical Support Document for the STA-6 TBEL. June 2007.
- Goforth, G. 2007. Operation Plan Integrated STA-5 and STA-6. Prepared for the South Florida Water Management District. August 2007.
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Florida Water Management District. August 2007.

Goforth, G. 2007. Updated Flow and Phosphorus Data Sets for the ECP Basins Covering the Period May 1, 1994 - April 30, 2007. Prepared for the U.S. Army Corps of Engineers and the South Florida Water Management District. October 2007.

Goforth, G. 2007. Updated STA Inflow Data Sets For the 2010 Planning Period. Prepared for the U.S. Army Corps of Engineers and the South Florida Water Management District. October 2007.

Goforth, G. 2007. Updated STA Phosphorus Modeling For the 2010 Planning Period. Prepared for the U.S. Army Corps of Engineers and the South Florida Water Management District. October 2007.

Goforth, G. , N. Iricanin, S. Hill, S. Xue, T. Piccone, F. Nearhoof, K. Weaver 2007. Technical Support Document for the STA-1E TBEL. October 2007.

Goforth, G. , N. Iricanin, S. Hill, S. Xue, T. Piccone, F. Nearhoof, K. Weaver 2007. Technical Support Document for the STA-1W TBEL. October 2007.

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- Goforth, G. 2008. Technical Memorandum - Examples of STA-3/4 Flow-way Hydraulic Analyses Using Existing Data. Prepared for the South Florida Water Management District. March 2008.
- Goforth, G. 2008. Technical Memorandum - Examples of STA-1E Flow-way Hydraulic Analyses Using Existing Data. Prepared for the South Florida Water Management District. April 2008.
- CH2M Hill and Goforth, G. 2008. Everglades 2008 Report Technical Memorandum 3.2.1 – Evaluation of Analytical Tools. Prepared for the South Florida Water Management District. March 2008.
- Goforth, G. and CH2M Hill 2008. Everglades 2008 Report Technical Memorandum 3.3.1 – Updated Basin Data. Prepared for the South Florida Water Management District. March 2008.
- Goforth, G. and CH2M Hill 2008. Everglades 2008 Report Technical Memorandum 3.1.1 – Water Quality Performance Evaluation of the Pre-2006 Projects. Prepared for the South Florida Water Management District. April 2008.
- CH2M Hill and Goforth, G. 2008. Everglades 2008 Report Technical Memorandum 2.1.1 – Evaluation Methods for Alternatives Analysis Supporting Plan Formulation. Prepared for the South Florida Water Management District. April 2008.
- CH2M Hill and Goforth, G. 2008. Everglades 2008 Report Technical Memorandum 2.2.1 – Candidate Hydropattern Restoration Alternatives for the Northern Everglades Protection Area. Prepared for the South Florida Water Management District. May 2008.
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- CH2M Hill and Goforth, G. 2008. Everglades 2008 Report Technical Memorandum 3.4.1 – Potential Supplemental Water Quality Improvement Measures. Prepared for the South Florida Water Management District. July 2008.
- Goforth, G. 2008. Technical Memorandum - Independent Technical Review of Intermediate Design Report Technical Memorandum No. 1: Water Budget Modeling. Prepared for ADA Engineering and URS Corporation. July 2008.
- Goforth, G. 2008. Technical Memorandum - Independent Technical Review of Intermediate Design Report Technical Memorandum No. 3: Phosphorus Removal Performance. Prepared for ADA Engineering and URS Corporation. July 2008.



CH2M Hill and Gary Goforth, Inc. 2008. Draft Deliverable 3.2.1: Technical Memorandum – Evaluation of Analytical Tools, March 5, 2008.

Gary Goforth, Inc. and CH2M Hill 2008. Draft Deliverable 3.3.1: Technical Memorandum – Updated Basin Data, March 27, 2008.

Gary Goforth, Inc. and CH2M Hill 2008. Draft Deliverable 3.1.1: Technical Memorandum - Water Quality Performance Evaluation of the Pre-2006 Projects, April 18, 2008.

CH2M Hill and Gary Goforth, Inc. 2008. Draft Deliverable 3.4.1: Technical Memorandum – Potential Supplemental Water Quality Improvement Measures, July 22, 2008.

Goforth, G. 2008. Operation Plan Integrated STA-5 and STA-6. Prepared for the South Florida Water Management District. October 2008.

Goforth, G. 2008. STA-2 Water Quality Monitoring Re-Engineering. Prepared for the South Florida Water Management District, November 2008.

CH2M Hill and Gary Goforth, Inc. 2008. Final Report on the Long-Term Plan for Achieving Water Quality Goals for the Everglades Protection Area Tributary Basins, December 2008.

ACADEMIC HONORS AND AWARDS

Tau Beta Pi, Engineering Honor Society University of Florida - 1979

Phi Kappa Phi, Academic Honor Society University of Florida - 1979

Government Engineer of the Year (1998), awarded by Palm Beach Branch American Society of Civil Engineers

President's Award, presented by the Florida Association of Environmental Professionals, Treasure Coast Chapter, September 2005

Outstanding Technical Achievement 2005-2006, awarded by Palm Beach Chapter, Florida Engineering Society, April 2006