



1435 EAST PIEDMONT DRIVE, SUITE 210  
TALLAHASSEE, FL 32308  
TEL: 850-765-8150

[www.appliedtm.com](http://www.appliedtm.com)

March 16, 2011

Leon County  
Purchasing Division  
1800-3 Blair Stone Road  
Tallahassee, FL 32308

Re: Proposal to Provide Civil Engineering Services, Continuing Supply  
**a. Stormwater Engineering**, Proposal Number: BC-03-17-11-25

**Applied Technology & Management, Inc. (ATM)** is pleased to submit our response to the referenced Request for Proposals for Stormwater Engineering Services. ATM has been providing stormwater engineering services in North Florida for over 25 years. Our experience, knowledge, and approach are key to helping local governments develop a logical approach to their stormwater management. As you review our qualifications, please note the following advantages that ATM provides.

- **Familiarity:** ATM is familiar with Leon County and well-suited to assist the County with their stormwater engineering support services. Principal, Dr. Steven Peene, is located in Leon County and has been working on stormwater issues within Leon County for over 5 years.
- **Water Quality Focus:** The ATM team has years of experience dealing with both local and national water quality issues related to TMDL development, implementation and compliance; numeric nutrient criteria; Phase I MS4 compliance; and innovative stormwater management techniques.
- **Responsiveness:** We pride ourselves on being responsive to our clients' needs and keeping them informed of a project's status. We hope to find solutions to challenging problems that not only resolve the issue, but fit the bigger picture. We like our clients to feel comfortable calling with a question or concern knowing they will not receive an invoice for the call.

Based on our technical expertise, local knowledge, and experience, we believe we are the best qualified to work with the County on this contract. The ATM team is ready to begin work on this contract immediately.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Peene', is written over a horizontal line.

Steven J. Peene, Ph.D.  
Vice President, Principal-in-Charge

RFP Title: Request for Proposals for Civil Engineering Services, Continuing Supply  
Proposal Number: BC-03-17-11-25  
Opening Date: Thursday, March 17, 2011 at 2:00 PM

PROPOSAL RESPONSE COVER SHEET

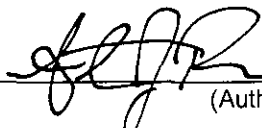
THIS PAGE IS TO BE COMPLETED AND INCLUDED AS THE COVER SHEET FOR YOUR RESPONSE TO THE REQUEST FOR PROPOSALS.

The Board of County Commissioners, Leon County, reserves the right to accept or reject any and/or all bids in the best interest of Leon County.

Keith M. Roberts, Purchasing Director

John Dailey, Chairman  
Leon County Board of County Commissioners

This bid response is submitted by the below named firm/individual by the undersigned authorized representative.

BY Applied Technology & Management, Inc.  
(Firm Name)  
  
(Authorized Representative)  
Steven J. Peene, Ph.D., Vice President  
(Printed or Typed Name)

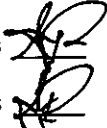

ADDRESS 5550 NW 111th Blvd

CITY, STATE, ZIP Gainesville, FL 32653

TELEPHONE 386-418-6400

FAX 386-418-6401

**ADDENDA ACKNOWLEDGMENTS: (IF APPLICABLE)**

Addendum #1 dated 3/3/2011 Initials  Addendum #3 dated \_\_\_\_\_ Initials \_\_\_\_\_  
Addendum #2 dated 3/8/2011 Initials  Addendum #4 dated \_\_\_\_\_ Initials \_\_\_\_\_

**PLEASE MARK WHICH CATEGORIES FOR WHICH YOU WISH TO BE CONSIDERED:**

- a. Stormwater Engineering
- b. Roadway Design
- c. Traffic and Intersection Engineering
- d. Structural Engineering
- e. Geotechnical Services
- f. Environmental Support Services
- g. Construction Engineering and Inspection Services
- h. Surveying
- i. Subdivision and Site Development Engineering
- j. Parks and Recreational Facility Engineering
- k. Utility Engineering



**Proposal to Provide  
Civil Engineering Services, Continuing Supply  
a. Stormwater Engineering  
Proposal Number: BC-03-17-11-25**

March 17, 2011

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- e. Effect of Project Team Location
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**Applied Technology & Management, Inc.**  
1435 East Piedmont Drive  
Suite 210 Tallahassee, FL 32308  
[www.appliedtm.com](http://www.appliedtm.com)

# General Information Applicable to all Work Categories

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# Proposal to Provide Civil Engineering Services, Continuing Supply

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## A. CONTRACTOR INFORMATION

**Applied Technology & Management, Inc. (ATM)** has provided engineering and water resources services to public and private clients for over 25 years. ATM's staff includes Professional Engineers, Engineer Interns, Ecologists, Environmental Scientists, Modelers, and Professional Surveyor/Mappers. Our staff works on projects throughout the United States and internationally. ATM's services are grouped into six principal areas:



- Water Resources
- Civil Engineering
- Environmental Engineering
- Environmental Sciences
- Coastal Engineering
- Marina and Waterfront Development

The point of contact for this RFP is Dr. Steven Peene. Dr. Peene is based in ATM's Tallahassee satellite office. His contact information is as follows:

**Steven J. Peene, Ph.D.**  
Applied Technology & Management, Inc.  
1435 East Piedmont Drive, Suite 210  
Tallahassee, FL 32308  
850-765-8150 / 850-591-1888  
[speene@appliedtm.com](mailto:speene@appliedtm.com)

Work for this contract will be performed primarily from our Gainesville headquarters:

5550 NW 111<sup>th</sup> Blvd  
Gainesville, FL 32653  
386-418-6400





# Proposal to Provide Civil Engineering Services, Continuing Supply

## B. EXECUTIVE SUMMARY



ATM staff have provided civil, environmental, coastal, and water resources engineering services to public and private clients throughout North Florida and the Southeast for over 25 years. Our multidisciplinary engineers and scientists, who include former state regulators and municipal directors, routinely address water management issues from a multitude of perspectives with specific and unique experience in the areas of Total Maximum Daily Load (TMDL) and Basin Management Action Plan (BMAP) support, watershed assessment, monitoring, and modeling, receiving water assessment, monitoring, and modeling, NPDES/MS3 permit support, and water quality monitoring and analyses.

ATM professionals have extensive experience in assisting clients in addressing the numerous challenges of stormwater management. On the broadest of scales, we develop *Comprehensive Stormwater Master Plans and Watershed Management Plans*, as well as facilitate stormwater utility development based on the specific, unique qualities of each community. ATM has supplied these services for state agencies, as well as for municipalities of varying sizes.

**ATM's environmental and utility engineers have extensive experience with all aspects of stormwater projects, from master planning to detailed design and construction administration.**

ATM provides clients with comprehensive technical support related to waterbody impairment listings, TMDLs, and BMAPs. Services include detailed review and analyses of data used to assess waterbody impairments, review of models and assumptions used in the development of TMDLs, and review of assumptions and methodologies used to implement TMDLs through the BMAP process. ATM coordinates with FDEP and EPA to ensure that appropriate and scientifically defensible methodologies are employed in the determination of TMDLs and allocations of loads to BMAP stakeholders. TMDL support clients include FDOT Central Office, FDOT District 1, FDOT District 3, FDOT District 7, Leon County, Hillsborough County, Brevard County, Pasco County, and Lee County.

Within our stormwater infrastructure services, ATM regularly carries out comprehensive facility inventories, develops and analyzes GIS applications, designs facilities and systems, submits permit applications, analyzes best management practices effectiveness, develops stormwater ordinances, and provides funding assistance, construction oversight, public education, and stakeholder coordination. We have assisted numerous municipalities in Florida, Georgia, and South Carolina in planning, modeling, designing, permitting, and overseeing construction of stormwater facilities to eliminate flooding and/or address non-point source pollution issues. Select clients include the City of Jacksonville Beach, the City of Jacksonville, the Town of Port Royal, and the City of Atlantic Beach. Our team provides the County with the *complete stormwater services necessary for this Stormwater Engineering Contract*.

In addition, we have a thorough knowledge of the State of Florida regulations, Florida Department of Transportation (FDOT), and the Northwest Florida Water Management District rules and permitting requirements which allows us to evaluate all aspects of a project when presenting solutions to most any stormwater management related issue.

ATM has the experience and expertise to provide all services requested in the RFP, including but not limited to the following:

- **Basin Master Plans** – ATM developed a detailed Statewide Plan for the FDOT to assist them with meeting the challenges of complying with increasingly rigorous water quality standards and stormwater discharge requirements. In addition, ATM has provided stormwater planning services throughout the southeast for clients including the City of Jacksonville Beach, Beaufort County, SC, and the Town of Bluffton, SC.
- **FIRM Modifications** – ATM performed a hydrologic/hydraulic study in support of Gainesville Regional Utilities' successful application for a Letter of Map Revision for the Deerhaven Generating Station.
- **Watershed Retrofit Design** – ATM studied, modeled and recommended flooding abatement solutions for the Alligator Lake and Clay Hole Creek watersheds in Lake City and surrounding Columbia County. Scenarios being evaluated included the 2004 hurricane season and the 100-year, 24-hour storm.





## B. Executive Summary

- **Habitat Restoration Planning and Design** – ATM professionals have extensive experience in natural resource restoration projects, including design and implementation of a long-term wetland restoration project in the upper Cypress Creek watershed, Okeechobee County, FL, which provided for restoration and enhancement of several hundred acres of forested swamps and marshes.
- **NPDES Permit Support** – Through its TMDL and BMAP support contracts, ATM provides NPDES/MS4 permit support to multiple Phase 1 MS4 permittees.
- **TMDL Analysis** – ATM has extensive expertise and specific direct experience dealing with the TMDL program in Florida. Current TMDL support clients include the FDOT and Leon, Hillsborough, Lee, Pasco, and Brevard Counties in Florida.
- **Stormwater Facility Retrofit Design** – ATM is currently working with Grand Haven Community Development District in Flagler County to resolve issues with their failing stormwater infrastructure.
- **Review of Design Documents by Others** – ATM engineers routinely provide peer reviews, constructability reviews, and permitting reviews for our clients. In addition, ATM provides Environmental Resource Permit (ERP) application review for the Southwest Florida Water Management District.
- **Expert Witness Services** – ATM staff has recently provided expert witness testimony for Bay County for the Deer Point Reservoir Study and is currently providing technical support of legal efforts to Leon County for the Lake Talquin/Little River Watershed Discharge Assessment.

In addition, ATM staff members have unique familiarity providing comprehensive solutions to a wide range of water-related issues including complex hydrodynamic, hydraulic, and water quality modeling; monitoring program development and implementation; and detailed hydraulic design support.

ATM has considerable expertise in the area of water quality assessment with specific direct experience dealing with the **Total Maximum Daily Load (TMDL)** program in Florida as well as recent issues related to the proposed Statewide Stormwater Rule and potential changes to the state water quality standards through implementation of numeric nutrient criteria. ATM has assisted clients in developing and updating their overall Stormwater Management Programs to address the existing regulations, including MS4 permits, and implications of potential rule changes.

Specific direct experience includes the following;

- On behalf of its clients, ATM is leading the state in proactive support relative to waterbody listing, TMDLs, and BMAPs. Successes have been achieved through strong working relationships with FDEP and EPA staff.
- Support to the First Coast Manufacturers Association through the development of the St. John River TMDL.
- Support to Leon County for TMDLs within the Lake Lafayette watershed, Lake Munson Watershed, and the Lake Talquin Watershed.
- Support to the Florida Department of Transportation in the development of a Statewide Plan for dealing with TMDLs. This plan was implemented throughout the State and ATM is presently supporting FDOT under the Listing, TMDL, and BMAP processes. ATM is presently implementing a Stormwater Quality monitoring program for FDOT in various areas within Florida for the purpose of quantifying pollutant load potential from highway areas.
- TMDL support to Pasco County since 2009.
- ATM performed an audit of waters within Brevard County to identify key areas of risk from the development and implementation of TMDLs within the County's jurisdiction.
- TMDL support to numerous Stakeholders within the Tampa Area including Hillsborough County, Pinellas County and other cities.

This RFP is in all respects fair and in good faith and is presented without collusion or fraud. Steven J. Peene, Ph.D., the signer of this RFP, has the authority to bind principal proponent. His contact information is as follows:

Steven J. Peene, Ph.D.  
1435 East Piedmont Drive, Suite 210  
Tallahassee, FL 32308  
850-765-8150 / 850-591-1888  
[speene@appliedtm.com](mailto:speene@appliedtm.com)

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**AFFIDAVIT CERTIFICATION  
IMMIGRATION LAWS**

Leon County will not intentionally award County contracts to any contractor who knowingly employs unauthorized alien workers, constituting a violation of the employment provisions contained in 8 U.S.C. Section 1324 A(e) {Section 274a(e) of the Immigration and Nationality Act ("INA").

Leon County may consider the employment by any Contractor of Unauthorized Aliens a violation of Section 274A(e) of the INA. **Such violation by the Recipient of the employment provision contained in Section 274A(e) of the INA shall be ground for unilateral cancellation of the contract by Leon County.**

BIDDER ATTESTS THAT THEY ARE FULLY COMPLIANT WITH ALL APPLICABLE IMMIGRATION LAWS (SPECIFICALLY TO THE 1986 IMMIGRATION ACT AND SUBSEQUENT AMENDMENTS).

Company Name: Applied Technology & Management, Inc.

Signature: *Mistie Perry* Title: Human Resources Generalist

STATE OF Florida  
COUNTY OF Alachua

Sworn to and subscribed before me this 8 day of March, 2011.

Personally known X

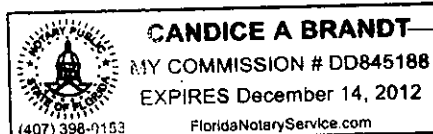
*Candice A Brandt*  
NOTARY PUBLIC

OR Produced identification \_\_\_\_\_

Notary Public - State of Florida

My commission expires: 12/14/2012

(Type of identification)



Printed, typed, or stamped  
commissioned name of notary public

The signee of this Affidavit guarantees, as evidenced by the sworn affidavit required herein, the truth and accuracy of this affidavit to interrogatories hereinafter made.

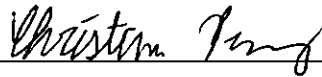
**LEON COUNTY RESERVES THE RIGHT TO REQUEST SUPPORTING DOCUMENTATION,  
AS EVIDENCE OF SERVICES PROVIDED, AT ANY TIME.**



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**EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT**

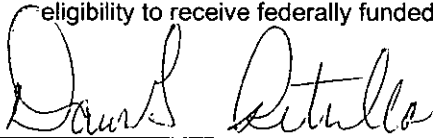
1. The contractors and all subcontractors hereby agree to a commitment to the principles and practices of equal opportunity in employment and to comply with the letter and spirit of federal, state, and local laws and regulations prohibiting discrimination based on race, color, religion, national region, sex, age, handicap, marital status, and political affiliation or belief.
2. The contractor agrees to comply with Executive Order 11246, as amended, and to comply with specific affirmative action obligations contained therein.

Signed:   
Title: Human Resources Generalist  
Firm: Applied Technology & Management, Inc.

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**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,  
And OTHER RESPONSIBILITY MATTERS  
PRIMARY COVERED TRANSACTIONS**

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - b) Have not within a three-year period preceding this been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of these offenses enumerated in paragraph (1)(b) of this certification; and
  - d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.
3. No subcontract will be issued for this project to any party which is debarred or suspended from eligibility to receive federally funded contracts.



\_\_\_\_\_  
Signature

\_\_\_\_\_  
Chief Financial Officer

Title

\_\_\_\_\_  
Applied Technology & Management, Inc.

Contractor/Firm

\_\_\_\_\_  
5550 NW 111th Blvd, Gainesville, FL 32653

Address

INSURANCE CERTIFICATION FORM

To indicate that Bidder/Respondent understands and is able to comply with the required insurance, as stated in the bid/RFP document, Bidder/Respondent shall submit this completed Insurance Certification Form, signed by the company Risk Manager or authorized manager with risk authority.

A. Is/are the insurer(s) to be used for all required insurance (except Workers' Compensation) listed by Best with a rating of no less than A:VII?

YES  NO

Commercial General Liability:

Indicate Best Rating:

A

Indicate Best Financial Classification:

XV

Business Auto:

Indicate Best Rating:

A

Indicate Best Financial Classification:

XV

1. Is the insurer to be used for Workers' Compensation insurance listed by Best with a rating of no less than A:VII?

YES  NO

Indicate Best Rating:

A

Indicate Best Financial Classification:

XV

If answer is NO, provide name and address of insurer:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Is the Respondent able to obtain insurance in the following limits (next page) for this professional services agreement?

YES  NO

Insurance will be placed with Florida admitted insurers unless otherwise accepted by Leon County. Insurers will have A.M. Best ratings of no less than A:VII unless otherwise accepted by Leon County.

Required Coverage and Limits

The required types and limits of coverage for this bid/request for proposals are contained within the solicitation package. Be sure to carefully review and ascertain that bidder/proposer either has coverage or will place coverage at these or higher levels.

Required Policy Endorsements and Documentation

Certificate of Insurance will be provided evidencing placement of each insurance policy responding to requirements of the contract.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the County. At the option of the County, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the County, its officers, officials, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Endorsements to insurance policies will be provided as follows:

Additional insured (Leon County, Florida, its Officers, employees and volunteers) -  
General Liability & Automobile Liability

Primary and not contributing coverage-  
General Liability & Automobile Liability

Waiver of Subrogation (Leon County, Florida, its officers, employees and volunteers)- General  
Liability, Automobile Liability, Workers' Compensation and Employer's Liability

Thirty days advance written notice of cancellation to County - General Liability,  
Automobile Liability, Worker's Compensation & Employer's Liability.

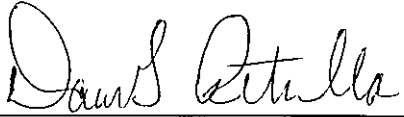
Professional Liability Policy Declaration sheet as well as claims procedures for each applicable policy to be provided

Please mark the appropriate box:

Coverage is in place  Coverage will be placed, without exception

The undersigned declares under penalty of perjury that all of the above insurer information is true and correct.

Name Dawn Petrella, CPA  
Typed or Printed

Signature 

Date 3/11/11

Title Chief Financial Officer  
(Company Risk Manager or Manager with Risk Authority)

Specific Proposal  
Information for  
**Stormwater Engineering**  
Work Category

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# Proposal to Provide Stormwater Engineering Services

## a. ABILITY OF PROFESSIONAL PERSONNEL

The proposed ATM project team includes 7 fulltime engineers, scientists, designers, drafters, GIS specialists, and administrative staff available for assistance to ensure timely completion of all assigned projects. Key proposed staff includes:

NAME	Yrs of Exp.	RELEVANT QUALIFICATIONS
Steve Peene, Ph.D.	28	<ul style="list-style-type: none"> <li>▪ TMDL and BMAP Analyses and Support</li> <li>▪ NPDES/MS4 Permit Support</li> <li>▪ Expert Witness Testimony</li> <li>▪ Watershed Hydrologic and Pollutant Load Modeling</li> <li>▪ Receiving Water Quality Modeling</li> </ul>
Janet Hearn, P.E.	29	<ul style="list-style-type: none"> <li>▪ TMDL and BMAP Analyses and Support</li> <li>▪ NPDES/MS4 Permit Support</li> <li>▪ Watershed Assessment and Planning</li> <li>▪ Receiving Water Quality Modeling</li> <li>▪ GIS Mapping</li> </ul>
Steve Swann, P.E.	23	<ul style="list-style-type: none"> <li>▪ Stormwater Management/Master Planning</li> <li>▪ NPDES/MS4 Permit Support</li> <li>▪ Review of Design Documents by Others</li> <li>▪ TMDL and BMAP Analyses and Support</li> </ul>
Chris Schumacher, P.E.	20	<ul style="list-style-type: none"> <li>▪ Watershed Hydrologic and Pollutant Load Modeling</li> <li>▪ Stormwater Management/Master Planning</li> <li>▪ Watershed Retrofit Design</li> <li>▪ Stormwater Facility Retrofit Design</li> <li>▪ Environmental Resource Permitting</li> </ul>
Tim Taylor, P.E.	20	<ul style="list-style-type: none"> <li>▪ Watershed Retrofit Design</li> <li>▪ Stormwater Management System Design, Master Planning, Permitting</li> <li>▪ Environmental Technical Investigations</li> </ul>
Brian Simms, P.E.	9	<ul style="list-style-type: none"> <li>▪ Stormwater Management/Master Planning</li> <li>▪ Stormwater Facility Retrofit Design</li> <li>▪ Environmental Resource Permitting</li> <li>▪ Watershed Hydrologic and Pollutant Load Modeling</li> </ul>
Rob Semmes, M.S.	22	<ul style="list-style-type: none"> <li>▪ TMDL and BMAP Analyses and Support</li> <li>▪ Water and Sediment Quality Assessments</li> <li>▪ Environmental Resource Permitting</li> <li>▪ Stormwater EMC Sampling</li> </ul>
Kayle Moore, P.E.	17	<ul style="list-style-type: none"> <li>▪ GIS Mapping, Analysis, &amp; Data Management</li> <li>▪ Stormwater Retrofit Design</li> <li>▪ Construction Administration</li> <li>▪ Environmental Resource Permitting</li> </ul>
Michael Klink, P.E.	5	<ul style="list-style-type: none"> <li>▪ Stormwater Management Design, Planning, Modeling</li> <li>▪ Review of Design Documents by Others</li> <li>▪ Environmental Resource Permitting</li> <li>▪ Construction Administration</li> </ul>

All staff are expected to be fully available to Leon County for the duration of the contract and are available to begin work on both large and small stormwater tasks immediately upon notification from the County. Our staff is accustomed to serving multiple clients and working on multiple projects at one time. The number of repeat clients and the number of continuing services contracts ATM has are proof of our ability to provide quality service to multiple clients with our existing staff.

No outside consultants are expected to be utilized.



**STEVEN PEENE, Ph.D.**  
PRINCIPAL SCIENTIST – WATER QUALITY



**YEARS WITH ATM: 16**

**YEARS OF EXPERIENCE: 28**

**EDUCATION:** PhD, Coastal and Oceanographic Engineering, 1995

M.S., Coastal & Oceanographic Engineering, 1987

B.S., Civil Engineering, Lehigh University, 1982

**EXPERIENCE:** Dr. Peene's experience is in water resources analysis, including watershed planning, evaluation of non-point and point source pollution in surface water systems, hydrologic and water quality modeling, evaluation of impacts to ecological resources in surface waters, and design and implementation of hydrodynamic and water quality monitoring in surface water systems. He has worked with EPA Region IV on the development of TMDLs in the southeast since 1996, and with the Region IV TMDL coordinator in development of long-term planning and completion of hydrodynamic and water quality models, as well as design and implementation of water quality monitoring programs for use in TMDL development within the southeast states. He is presently working closely with numerous counties within Florida and the FDOT to provide technical support on TMDL issues throughout Florida.

TMDL Support for Leon County, FL – Project Manager in the evaluation of a nutrient TMDL for Lake Lafayette in Tallahassee. The TMDL was developed by FDEP to define nutrient reductions to the Lake from urban loadings. Provided technical review of the TMDL, as well as expert witness and hearing support.

TMDL Support for Pasco County, FL – Principal in Charge for the development of a countywide TMDL plan to address issues raised by recent TMDLs proposed by FDEP and EPA. Worked with the County to develop technical comments to draft TMDLs and represented the County at FDEP hearings. Recently successful in putting in abeyance Rulemaking by FDEP for a TMDL on Trout Creek which identified unreasonable load reductions that would have impacted the County.

TMDL Support for Hillsborough County, FL – Principal in Charge for the development of a countywide TMDL plan to address issues raised by recent TMDLs proposed by FDEP and EPA. Worked with the County to develop technical comments to draft TMDLs and represented the County at FDEP hearings. Recently successful in putting in abeyance Rulemaking by FDEP for a TMDL on Baker Creek/Mill Creek which identified unreasonable load reductions that would have impacted the County.

TMDL Support for FDOT, FL – Principal in Charge for continuing services contract with FDOT to provide support statewide on TMDL issues. Under the contract a Statewide TMDL plan was developed that identified actions to be taken by FDOT over a two-year window to assure that TMDLs proposed and load allocated assigned to FDOT are fair and equitable. Developed technical comments on draft TMDLs proposed by FDEP and EPA.

TMDL Support for Brevard County, FL - Project Manager for preparation of a TMDL/BMAP Audit and Risk Assessment and GIS database. Identified and mapped status of water body impairments and TMDL and BMAP development for all watersheds in the county. Used audit results to identify TMDL/BMAP activities with potential for future impacts on capital expenditures and recommended action items to minimize and manage risk.

TMDL and BMAP Support for Lee County, FL – Principal in Charge for review of EPA and FDEP TMDL documents affecting Lee County and for review of nutrient load allocations for implementation of the TMDLs through the Basin Management Action Plan (BMAP process).

Bay County Hydrologic Analysis of the Deer Point Reservoir Watershed (including the Sand Hills Lake Region), Bay County, FL – Project Manager in a study to determine the response of surface water and groundwater resources to different land use activity and land cover scenarios in order to assess vulnerability of the quantity and quality of existing and potential future water supplies and to develop scientifically defensible, watershed-specific development standards to allow development consistent with the use of water resources for public water supply.

**JANET K. HEARN, P.E.**  
PROJECT MANAGER - SENIOR ENGINEER



**YEARS WITH ATM: 9**

**YEARS OF EXPERIENCE: 29**

**EDUCATION:** M.S., Coastal and  
Oceanographic Engineering, 1987

B.S., Civil Engineering, Oregon  
State University, 1981

**REGISTRATION:** FL PE # 47110

**EXPERIENCE:** Ms. Hearn is a senior engineer with nearly 30 years of experience in water resources and coastal engineering. Her current professional focus is directed toward assisting stakeholders with issues arising from the development and implementation of TMDLs. She is very knowledgeable about and involved with Florida's TMDL and BMAP programs and serves as a technical advisor, liaison, and advocate for a number of government clients. She is part of a team of ATM engineers and scientists that has reviewed and provided detailed technical comment to FDEP and EPA on more than 100 TMDL documents.

TMDL and BMAP Support for Lee County, FL – Project Manager for review of EPA and FDEP TMDL documents affecting Lee County and for review of nutrient load allocations for implementation of the TMDLs through the Basin Management Action Plan (BMAP process).

TMDL Support for Brevard County, FL - Project Manager for preparation of a TMDL/BMAP Audit and Risk Assessment and GIS database. Identified and mapped status of water body impairments and TMDL and BMAP development for all watersheds in the county. Used audit results to identify TMDL/BMAP activities with potential for future impacts on capital expenditures and recommended action items to minimize and manage risk.

Rural Highway Stormwater Sampling, FDOT, FL – Project Manager in charge of development and execution of a stormwater sampling plan for five rural roadway sites. Primary study objective was to determine event mean concentrations of nutrient and metal parameters specifically for road land use. Such data can be used to determine actual pollutant loadings and TMDL allocations for FDOT right-of-ways.

Review of Proposed Statewide Stormwater Rule for FDOT, FL – Project Manager for ongoing reviews of revisions and updates to Florida's proposed Statewide Stormwater Rule. In addition to providing general comments on drafts, specific tasks include detailed review and assessment of the basis for highway EMC values and nitrogen removal efficiencies included in the rule and used for permitting.

TMDL Support for Pasco County, FL – Project Manager for development of a countywide TMDL plan to address issues raised by recent TMDLs proposed by FDEP and EPA. Worked with County to develop technical comments to draft

TMDLs and represented County at FDEP hearings. Successful in putting in abeyance Rulemaking by FDEP for a TMDL on Trout Creek that identified unreasonable load reductions that would have impacted the County.

TMDL Support for Hillsborough County, FL – Project Manager for the development of a countywide TMDL plan to address issues raised by recent TMDLs proposed by FDEP and EPA. Worked with the County to develop technical comments to draft TMDLs and represented the County at FDEP hearings. Recently successful in putting in abeyance Rulemaking by FDEP for a TMDL on Baker Creek/Mill Creek which identified unreasonable load reductions that would have impacted the County.

TMDL Support for FDOT, FL – Project Manager for comprehensive TMDL support services to the FDOT, including detailed technical review of methodologies used by EPA and FDEP to develop TMDLs and preparation of written comments; review of water quality data used by FDEP to support listing of water bodies as impaired; maintenance of a comprehensive statewide TMDL database; monitoring of BMAP activities statewide; and participation in development of BMAPs.

Florida Department of Transportation (FDOT) Statewide TMDL Plan, FL – Project Manager in charge of development of a comprehensive Statewide TMDL Plan for the FDOT. By providing details regarding the present status and future development schedule of TMDLs, the plan allows the FDOT to engage throughout the TMDL process, from the listing of water bodies through TMDL implementation, thus ensuring that their interests are adequately represented and allocations are justifiable and fair.



**STEPHEN SWANN, P.E.**  
SENIOR ENGINEER



**YEARS WITH ATM: 17**

**YEARS OF EXPERIENCE: 23**

**EDUCATION:** M.E., Environmental Engineering, 1993

B.S., Environmental Engineering, 1988

**REGISTRATION:** FL PE # 46716

**EXPERIENCE:** Mr. Swann has over 20 years of experience throughout Florida and the Southeast. He has served as Project Manager for numerous projects including stormwater and wastewater treatment system design and permitting; TMDL development and implementation; NPDES and ground water permitting; design and evaluation of land application systems; wastewater reuse systems; wetland system restoration and construction; development of BMP Plans, Stormwater Pollution Prevention Plans, and Spill Prevention Control and Countermeasure Plans; and development and implementation of land application systems.

Stormwater Outfall Modifications, Jacksonville Beach, FL – This project involved the successful preparation of a grant application through the FDEP Erosion Control Program for funding. Technical tasks included preparation of a Coastal Construction Control Line Permit application, construction documents, and Sovereign Submerged Lands authorization request to construct dune walkovers and outfall extensions along the City's beachfront.

Outfall Pipe Replacement, City of St. Augustine, FL – Project Manager responsible for the regulatory and engineering feasibility of the replacement of over 1500' of outfall pipe through a jurisdictional salt marsh environment. This project required the development of several feasible alternatives to present to the City for subsequent funding.

Beach Stormwater Outfall Evaluation, Jacksonville Beach, FL – Project Engineer responsible for delineating drainage basins and developing storm hydrographs for 29 beach stormwater outfalls, developing strategies for lessening their littoral impact on the beach, and developing conceptual design plans for eliminating the beach stormwater outfalls.

Beaches Communities TMDL Modeling, Jacksonville, FL – Project Manager responsible for the completion of an analysis of the impacts of the combined community treated wastewater discharge into the St. Johns River. This analysis involved using the CE-QUAL-ICM model developed for the TMDL for the Lower St. Johns River to predict far-field nutrient concentrations due to this outfall.

NPDES Stormwater Management Program, City of Jacksonville Beach, FL – Project engineer for developing a stormwater management program to comply with the requirements of the City's NPDES stormwater permit.

Stormwater Model Development, City of Jacksonville Beach, FL – Responsible for the development and implementation of a dynamic stormwater model used to evaluate an existing stormwater management system for a 40-acre developed area within the City.

Stormwater Master Plan, City of Jacksonville Beach, FL – Project engineer responsible for developing a stormwater master plan for eight square miles of this coastal city. This project included identification of problem flooding areas, development of conceptual level design plans to eliminate problem flooding areas, and developing a five year capital improvement plan.

Stormwater Pollution Prevention Plan, Jefferson Smurfit Corporation/Container Corporation of America, Fernandina Beach, FL – Project manager responsible for development of a Stormwater Pollution Prevention Plan as required by the mill's NPDES stormwater permit. This project included an evaluation of the mill's entire stormwater management system.

Conceptual Stormwater Treatment Area Design, Sawgrass Lakes, Martin County, FL – Project Engineer responsible for site evaluations and development of a conceptual-level design of a stormwater treatment area providing treatment of C-44 Canal discharges to the St. Lucie River. This project involved detailed hydrologic modeling and the utilization of phosphorus removal models to predict performance.

**CHRIS SCHUMACHER, P.E.**  
SENIOR ENGINEER



**YEARS WITH ATM:** 14

**YEARS OF EXPERIENCE:** 20

**EDUCATION:** B.S., Environmental Engineering, 1988

**REGISTRATION:** FL PE # 46698

**EXPERIENCE:** Mr. Schumacher has more than 20 years of experience in local, state, and federal permitting. His main area of expertise is drainage design, stormwater and hydrologic modeling, wetland delineation and mitigation. Other areas of expertise include flood control and remediation, drainage retrofit and water quality treatment design. He has produced grading and drainage design plans for land development projects along with complete Environmental Resource Permit (ERP) and USACE 404 permit applications. His experience includes six years working as a Review Engineer for the Suwannee River Water Management District where he reviewed hundreds of surface water management permit applications.

Stormwater Management Plan Revision for the FDOT, Tallahassee, FL – Project Manager for the rewrite of the statewide stormwater management plan for FDOT. ATM is studying the current FDOT stormwater management plan and policies throughout the Districts and will be rewriting the statewide stormwater management plan for the FDOT. The plan will be rewritten to include some of the TMDL requirements and a revised maintenance and inspection frequency which will usurp the pending inspection and maintenance frequencies as prescribed by the EPA through the FDEP in the current draft permit language in the upcoming MS4 permit renewals.

Engineer for Grand Haven Community Development District, Palm Coast, FL – Assisted in development of Capital Improvement Plan for the CDD. Evaluation included stormwater and road infrastructure. Evaluating known issues with facilities and anticipated problems due to age.

Master Stormwater Pumping Station, St. Augustine Beach, FL – Provided final design plans and permits necessary for the City. This regional pump station was a retrofit for water quality and flood control relief for a 615-acre drainage area and helped facilitate development locally in a flood prone area.

Master Stormwater Management System Redesign for the Vista Landfill, Apopka FL – Provided design for a new phased stormwater management system and permits from the FDEP and the City for Waste Management Inc. of Florida. Provided design of new downcomers, terraces and dry retention systems to serve a new recycling facility and final buildout conditions for the landfill. Design reduced the number of ponds and simplified the stormwater management system and landfill layout.

Blount Island Command Marine Corps Master Stormwater Management System Rehabilitation, Blount Island, FL – Designed a retrofitted stormwater management system to serve the buildout of the Marine Command Support Center at Blount Island per the Marine Command's Master Plan. ATM provided construction plans, modeling expertise and permitting services with the SJRWMD and the USACE to construct the buildout of the Marine Command Station and reduce flooding while constructing within the existing water, sewer, electrical distribution system and existing buildings within the command base infrastructure.

Ivey Road Park Final Design, Jacksonville, FL – Project Engineer and supervised permitting of Ivey Road Park. ATM master planned the park and was responsible for all aspects of design including survey, grading, drainage, water, sewer, and landscaping. The park is located on 17 acres of remnant dunes. Amenities include basketball and tennis courts, 3 parking lots, perimeter trail, shelters, restrooms, and irrigation.

Stormwater Improvements Project, Jacksonville Beach, FL – Assisted the City of Jacksonville Beach in updating their stormwater master plan and permitting both pumped and gravity-flow stormwater retrofit designs for specific flooding within the City. Prepared design concepts, modeling, state ERP permits and preliminary and final stormwater pump station design for the City.

**TIM TAYLOR, P.E.**  
**SENIOR ENGINEER**



**YEARS WITH ATM: 16**

**YEARS OF EXPERIENCE: 21**

**EDUCATION:** B.S., Environmental Engineering, 1989

**REGISTRATION:** FL PE # 47667

**EXPERIENCE:** Mr. Taylor is a senior environmental engineer. He has been involved in the planning, design, and permitting of large projects that involve water, stormwater, roads, and wastewater systems. Mr. Taylor's experience includes preparation of plans, specifications, and contract documents for a wide range of projects, design and analysis of wastewater treatment and collection systems, reclaimed water systems, water distribution and treatment systems, and technical investigations for environmental projects.

Responsibilities have included water distribution, reuse water distribution systems, wastewater collection and transmission, roads, grading and roadway geometry plans and stormwater drainage systems.

Sewer Master Plan Update and Capital Improvement Plan, City of Atlantic Beach, FL – Assisted with evaluation and preparation of the City's Sewer Master Plan Update. Project included evaluation of the gravity sewer system, lift stations, forcemains, and WWTPs. Additionally, the evaluation included assessing several options for the City to meet the anticipated TMDL for the Lower St. Johns River. Following completion of the analysis and submittal of the final report, the information was presented to the City Commission.

South Jacksonville Beach Stormwater Improvements, Jacksonville Beach, FL – Engineer of Record/Project Manager for design of a \$2,300,000 stormwater collection and pumping system to serve an existing residential area of the City of Jacksonville Beach. System included design of approximately 4,400 linear feet of 15-inch pipe, 700 linear feet of 18-inch pipe, 1500 linear feet of 30-inch gravity storm sewer, 5600 linear feet of 20-inch forcemain and a triplex submersible stormwater pump station. Upon completion of the design, served as Project Manager in charge of construction administration for the project.

Wingate Park Recreation Area Stormwater Improvements, Jacksonville Beach, FL – Engineer of Record/Project Manager for the preparation of design drawings, specifications, and calculations for a gravity stormwater system with duplex submersible pump station and 8-inch forcemain to serve a City of Jacksonville Beach Recreational area. Also served as Project Manager in charge of construction administration for the project.

Madrid Area Stormwater Improvements, City of Jacksonville Beach, FL – Provided engineering services for the design of the Madrid Area Stormwater Collection

System and Pump Station. Services provided included project coordination/general engineering, design, permitting, geotechnical engineering, surveying, site specific areas and contingency.

Stormwater Master Plan, City of Jacksonville Beach, FL – Provided a stormwater system master plan to handle all stormwater runoff within the City of Jacksonville Beach. The project included mapping the system, modeling the basins and developing plans for operation and maintenance, and a five-year capital improvement plan of stormwater improvements throughout the City. Was project manager for implementation, design and construction of several of the projects identified in the capital improvement plan.

Major Pump Station Rehabilitation, JEA, Jacksonville, FL – Engineer of Record/Project Manager for the preparation of design drawings, specifications, and necessary calculations for six major pump stations with flow rates in excess of 25 MGD each. Rehabilitation included removal and replacement of mechanical bar screens, pump valves and fittings, and pump motors; installation of new flushing and seal water systems; installation of new potable water systems and new ventilation systems; and construction of new air conditioned electrical rooms.

Chub Cay Club, Bahamas – Project Manager for Chub Cay Club Resort Development in the Berry Islands. The project included planning and design of resort infrastructure including roads, water distribution, wastewater collection and transmission systems, reuse water distribution system, grading and roadway geometry plans and stormwater drainage systems. The resort consisted of a 200-slip marina, 57 villas, clubhouse and staff housing.

**BRIAN SIMMS, P.E.**  
CIVIL ENGINEER



**YEARS WITH ATM: 4**

**YEARS OF EXPERIENCE: 9**

**EDUCATION:** B.S., Civil Engineering,  
2003

**REGISTRATION:** FL PE.# 72464

**EXPERIENCE:** Mr. Simms specializations include site planning and layout, master storm, reuse, water and sewer design, lift station design, pavement and grading design, storm and sanitary sewer design, potable water main design, and Federal, State, and local permitting. Permitting experience includes, but is not limited to, FDOT driveway connection, drainage, and utility permits; FDEP wastewater and potable water permits; FDEP, SJRWMD, and USACE wetland mitigation and stormwater permits; and City of Jacksonville, St. Johns County, and Flagler County development permits.

Blount Island, Jacksonville, FL – Project Manager for the design and construction administration of this design build project for the US Navy. Designed and permitted a new master drainage system for two thirds of the island. Reviewed shop drawings, conducted site inspections, composed and submitted inspection reports.

Archie Dickinson Park, Final Design, Jacksonville, FL – Designed a stormwater management system for this residential public park. Provided grading elevations for parking, skate park, sidewalks, tennis and basketball courts. Designed sanitary sewer pump stations to serve multiple restrooms. Developed a cost estimate for all related work for this project. Coordinated with sub-contractors for landscaping, lighting, playground equipment, and irrigation.

Ivey Road Park, Jacksonville, FL – Designed a dry retention stormwater management system within a confined drainage basin, park grading, gravity sewer system, skate park, dog park, and boardwalk for this residential public park.

North 2<sup>nd</sup> Street, Jacksonville Beach, FL – Assisted in the design of a gravity stormwater system with future connections, pavement grading, gravity sewer system, and coordination of specifications. Performed construction administration services including but not limited to shop drawing review, payment request review, site inspections, conduct meetings, and submit reports.

King and the Bear Subdivision (Six Mile Creek North),

St. Johns County, FL – Provided project layout, design, drafting, and permitting of grading, water, sewer, and stormwater systems for the Swim and Tennis Center. Graded pool area and designed drainage with roof drain connections for Laterra Resort & Spa. Designed, drafted, and permitted parcels 19 to 34 of the subdivision including but not limited to layout, grading, water, sewer, and stormwater system. Designed and permitted a regional lift station with in those parcels. Remodeled master potable water system for King and the Bear / Heritage Landing / South Tract to accommodate future connections. All projects required coordination with owner, architects, and contractors. The subdivision is a mid to high-end residential subdivision with a golf course and amenities.

Gardens at Hammock Beach, Flagler County, FL – Responsible for master water and sewer layout, design, and permitting for this high end residential subdivision with commercial areas, golf course, and a marina. Designed and permitted potable water, sanitary sewer, and storm sewer systems. Provided roadway and lot grading. Coordinated with owner, architect, landscape architect, marina, and structural personnel for layout and design of utilities, roadways, parking areas, and drainage.

Yacht Harbor Village, Flagler County, FL – Performed a drainage analysis of an existing stormwater system for this high end residential and marina community. Designed, drafted and permitted a stormwater pump station. Designed and permitted the layout, grading, drainage, water, and sewer for a tennis center.

Peppertree Town Center, St. Johns County, FL – Designed and permitted this eight acre business park, consisting of business condos, restaurants, bank, and pharmacy. Design included gravity sanitary sewer, lift station, potable water, and stormwater treatment.

**ROBERT SEMMES, M.S.**  
WATER QUALITY SPECIALIST



**YEARS WITH ATM: 22**

**YEARS OF EXPERIENCE: 22**

**EDUCATION:** M.S. Agricultural Engineering, 1988

B.S., Agricultural Operations Management, 1986

**EXPERIENCE:** Mr. Semmes has more than 20 years of experience in state and federal permitting. His main areas of expertise include the design of water and sediment sampling programs and evaluation of the results. Recent experience includes development of automated stormwater sampling programs for determination of EMCs for rural roadways. Additionally, Mr. Semmes has developed numerous comments for stakeholders to EPA and FDEP TMDLs and provided additional assessment reports on water segments that were verified by FDEP as impaired, but don't need a TMDL.

Development of EMC Values for Stormwater Runoff from Rural Roadways in Florida, FDOT – Completed development of Quality Assurance Plan and procedures for the automated collection of composite stormwater samples from five sites in South Central, North Central, and Panhandle regions. Collection efforts included stormwater flow, rainfall, and water quality (nutrients, metals, hardness, and TSS). Maintained database of results, calculated loads, and final EMC values.

TMDL Support, FDOT – Completed detailed technical reviews of methodologies used by EPA and FDEP to develop TMDLs; prepared written comments for specific TMDLs; reviewed water quality data used by FDEP to support listing of water bodies as impaired; and participated in development of BMAPs. Developed specialization on Florida lake TMDLs and lake-specific issues.

Statewide TMDL Planning, FDOT – Developed several project summaries for presentation to FDOT's Central Office concerning water quality and stormwater issues and legislation that affects FDOT's development and maintenance plans to assist them in ensuring that their interests are adequately represented and allocations are justifiable and fair.

TMDL Support, Pasco County, FL – Completed technical reviews and proposals addressing issues raised by recent TMDLs proposed by FDEP and EPA. Worked with the County to develop technical comments to draft TMDLs. Through these efforts, ATM was successful in putting in abeyance Rulemaking by FDEP for a TMDL on Trout Creek which identified unreasonable load reductions that would have impacted the County.

TMDL and BMAP Support, Lee County, FL – Reviewed EPA and FDEP TMDL documents affecting Lee County and focusing especially on nutrient load allocations for implementation of the TMDLs through the Basin Management Action Plan (BMAP process).

TMDL Review for Several Water Body Segments, Florida Department of Transportation, Tallahassee, FL – Technical review of several EPA-generated TMDLs for nutrients and dissolved oxygen for three lakes and several river segments. Work performed included data evaluation, assessment of TMDL development methodology, critique of the numerical models used to generate the final TMDLs and reporting of the results.

TMDL Review for Several Blackwater Segments, Pasco County, FL – Technical review of several FDEP-generated TMDLs for nutrients and dissolved oxygen for three river segments. Work performed included data evaluation, assessment of TMDL development methodology, critique of the numerical models used, model assumptions, and reporting of the results. Significant effort spent researching the Department's assumptions of oxygen demanding contributions to these systems and natural sediment oxygen demand values used in the modeling exercise.

TMDL Support, Hillsborough County, FL – Completed technical reviews and proposals addressing issues raised by recent TMDLs proposed by FDEP and EPA. Worked with the County to develop technical comments to draft TMDLs. Identified unreasonable load reductions that would have impacted the County financially and unnecessarily.

**KAYLE MOORE, P.E.**  
CIVIL ENGINEER / GIS SPECIALIST



**YEARS WITH ATM: 4**

**YEARS OF EXPERIENCE: 15**

**EDUCATION: B.S., Civil Engineering, 1994**

**B.S. Aerospace Engineering, 1992**

**REGISTRATION: FL PE # 69114**

**EXPERIENCE:** Mr. Moore provides engineering design and support for stormwater system rehabilitation, gravity sewer system and pump station design, water and wastewater treatment facility upgrades, hydraulic modeling, GIS database development, and environmental and water resource permitting.

Mr. Moore has extensive training and experience with a multitude of GIS disciplines, including site suitability analyses, thematic mapping and map atlas development, geodatabase design, data conversion, and field data collection and validation using sub-meter global positioning system equipment.

Capital Improvement Plan, Grand Haven Community Development District (CDD), Palm Coast, FL – Assisted in the development of a roadway and stormwater 5-Year Capital Improvement Plan (CIP). The plan included developing an asset database, identifying known issues, projecting future issues, and developing graphic maps for presentation to the Board of Supervisors. The project included development of a 5-year cost estimate for the anticipated improvements.

Royal Palms Stormwater Improvements, City of Atlantic Beach, FL – Used GIS-based approach to identify rehabilitation and replacement strategies for aging stormwater drainage system. Used geoprocessing tools to analyze existing and proposed system capacities. Developed conceptual designs and opinions of cost for R&R alternatives.

2<sup>nd</sup> Street North Drainage Improvements, City of Jacksonville Beach, FL – Provided GIS mapping and support for stormwater retrofit project.

Gustafson's Dairy Sanitary/Stormwater Separation and Septic Tank Phase-Out, FL – Coordinated with process engineers to evaluate existing dairy production plant sanitary and process water collection system. Currently designing separate systems for stormwater and process water collection and conveyance, and sanitary sewer infrastructure to phase out existing septic systems.

Florida Department of Corrections, Lancaster Wastewater Treatment Facility Expansion Irrigation Spray Field, FL – Designed and developed new slow-irrigation spray field for wastewater treatment plant effluent disposal.

NAS Jacksonville Mixing Zone Study, FL – Performed pollutant dispersion for copper in treated effluent using

Visual PLUMES. Identified mixing zone requirements for NAS JAX WWTF effluent discharge to the St. Johns River. Prepared and submitted mixing zone study report to FDEP in support of WWTF permit modifications.

Bluffton Impervious Mapping, Bluffton, SC – Worked with sub-consultant and client to evaluate pilot project areas and define impervious feature mapping methodology and data limitations. Developed GIS layer of more than 18,500 impervious features (buildings, driveways, parking lots, etc.), digitized from available color ortho-imagery. Added all roadway surfaces within project area using a combination of buffering and digitizing techniques. Final deliverables consisted of attributed GIS shapefile, pervious/impervious area statistics and 100-page color map atlas.

Tournament Players Club WWTP Aeration Pipe Header Replacement, FL – Designed SS aeration pipe Header to replace existing corroded DIP header at the Tournament Players Club WWTP. The design included underground and above ground piping, pipe supports and removal and abandonment of exiting piping. Prepared cost estimate and bid documents and performed construction management for new pipe installation.

**MICHAEL KLINK, P.E.**  
CIVIL ENGINEER



**YEARS WITH ATM:** 5

**YEARS OF EXPERIENCE:** 6

**EDUCATION:** M.S., Civil  
Engineering, 2006

B.S. Civil Engineering, 2005

**REGISTRATION:** FL PE # 71840  
SC PE #28229  
GA PE #035369

**EXPERIENCE:** Mr. Klink's areas of expertise include stormwater management design and planning, stormwater modeling, environmental permitting, design and planning of land development, water and wastewater utility planning and design, construction management and inspections, erosion prevention and sediment control inspections, and stormwater reviews. Mr. Klink is familiar with AutoCAD, ArcGIS, Win TR-55, ICPR, EPANET, StormCAD.

Marineland FDOT Stormwater Re-route, Marineland, FL – Construction drawings for FDOT stormwater re-route to improve water quality of existing saltwater basin. Design included sheet pile penetration by stormwater pipe and an inline baffle box.

Beaufort County Stormwater Ordinance Research/Calculations, Beaufort County, SC – Provided analysis of CN based on lot size, land cover, and soils for the Beaufort County volume sensitive and nonsensitive watershed areas. Analysis of lot distribution in ArcGIS was used for lot selection.

City of Palm Coast SWPPP, Palm Coast, FL – Prepared a Stormwater Prevention Pollution Plan (SWPPP) for the City of Palm Coast Fueling Depot.

Robertville Drainage Analysis, Jasper County, SC – Conducted field investigation and recommendations for flooding problems in and around Robertville Park.

Stormwater Plan Review for Dorchester County, SC – Reviewed all Dorchester County stormwater plans and calculations for appropriate design and design standards. Reviewed performance bonds and maintenance bonds.

Port Royal Casablanca Drainage System, Port Royal, SC – Conducted construction and sediment and erosion control inspection. Revised stormwater plans due to unexpected existing conditions.

Port Royal Continuing Engineering Services, Port Royal, SC – Performed analysis of town stormwater problems. Design, management, and construction and installation inspections of Town projects. Review of all Town stormwater plans and calculations for appropriate design and design standards.

Bluffton Pervious/ Impervious Mapping, Town of Bluffton, SC – Provided ArcGIS support for the mapping of impervious areas for the Town of Bluffton.

Dunes West Stormwater System Inspection, Mt. Pleasant, SC – Coordinated field video inspection of storm drainage systems in a 2,200-acre development, prepared report and recommendations on findings for the Client.

Argent Business Park Drainage Analysis, Jasper County, SC – Conducted field investigation and recommendations for flooding problems at Argent Business Park and outfall ditch.

Jasper County Review, Jasper County, SC – Reviewed all Jasper County stormwater plans and calculations for appropriate design and design standards.

Beaumont/ Sandy Knowles Stormwater Improvements, SC – Created a stormwater model using ICPR to analyze existing conditions of approximately 660-acre watershed and proposed stormwater design improvements.



# Proposal to Provide Stormwater Engineering Services

## b. Experience with Projects of a Similar Type and Size

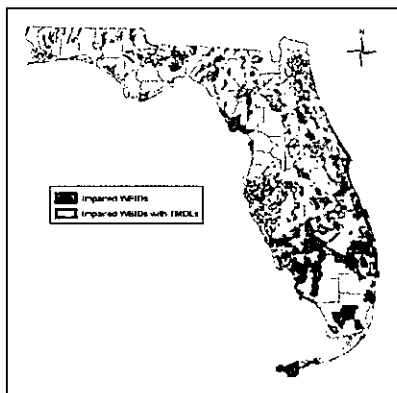
### 1. Project Experience

ATM has selected the following 10 recent projects to illustrate the experience of the firm and the proposed staff which may be assigned to work with Leon County under this contract:

a. Name and Location                      **STATEWIDE STORMWATER MANAGEMENT PLAN**  
Statewide, Florida

b. ATM's Responsibility

ATM developed a detailed Statewide Plan for the FDOT to help them address the challenges of complying with increasingly rigorous water quality standards and stormwater discharge requirements. The work is driven by actions taken under the Federal Clean Water act to develop Total Maximum Daily Loads (TMDLs) for waters throughout the State of Florida. Elements of the plan include development and maintenance of a



comprehensive GIS database, representation and advocacy throughout all phases of TMDL development, detailed technical reviews and critiques of models and other methodologies used by federal and state agencies in proposing TMDLs. In addition, ATM has developed alternate TMDLs on behalf of the FDOT. Through ATM's efforts, the FDOT is able to assess the potential fiscal and operational impacts of proposed regulations and implement strategies to optimize design and planning of future stormwater treatment within their rights of way.

c. Project Owner Representative                      **FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)**  
Fred Noble, Environmental Development Engineer  
605 Suwannee St., MS 37  
Tallahassee, FL 32399  
850-414-5269  
[Fred.Noble@dot.state.fl.us](mailto:Fred.Noble@dot.state.fl.us)

d. User Agency Representative                      Same as above

e. Date Project Completed                      Ongoing

f. Project Manager and Key Staff                      Steven Peene, Ph.D. – Principal In Charge  
Janet Hearn, P.E. – Project Engineer  
Chris Schumacher, P.E. – Project Manager  
Brian Simms, P.E. – Project Engineer -



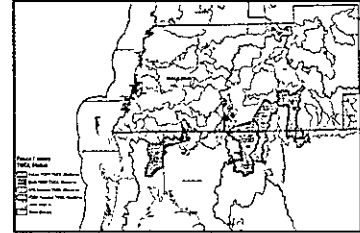


## b. Experience with Projects of a Similar Type and Size

a. **Name and Location**      **TMDL Support**  
Pasco County, Florida

b. **ATM's Responsibility**

ATM developed a TMDL Plan for Pasco County that provided the present status of proposed WBID TMDL development and the Basin Rotation Schedule relative to areas where the County could potentially act as a stakeholder. This included WBIDs in the three Planning Units contained within Pasco County, as well as waters outside of the County boundaries downstream of Pasco County (specifically relative to the Tampa Bay TMDLs). The report addressed four key phases within the TMDL program. These are:



- Pre-TMDL Development
- Post-TMDL Development
- BMAP Process
- TMDL Implementation

Within each of these phases, specific potential actions by the County were identified that could influence final TMDL numbers and allocation. Specific recommendations were then made on a path forward for each Basin Group.

Following development of the TMDL Plan, ATM initiated specific actions relative to the review of a TMDL proposed for Trout Creek. The TMDL was reviewed and, based upon significant written comments on the modeling and analyses performed for the TMDL and ongoing meetings with FDEP staff, the TMDL was put on hold pending development of a more appropriate approach. ATM is currently representing the County in development of a path forward to determine an accurate and reasonable TMDL for Trout Creek.

ATM recently provided support to the County by developing detailed comments on EPA's Numeric Nutrient Criteria.

c. **Project Owner Representative**      **PASCO COUNTY**  
Juanita Bernal Leon  
Technical Specialist III, Stormwater Management Divison  
4454 Grand Boulevard  
New Port Richey, FL 34652.  
727-834-3611  
[jbernalleon@pascocountyfl.net](mailto:jbernalleon@pascocountyfl.net)

d. **User Agency Representative**      Same as above

e. **Date Project Completed**      Ongoing

f. **Project Manager and Key Staff**      Steven Peene, Ph.D., Project Manager  
Janet K. Hearn, P.E., Project Engineer

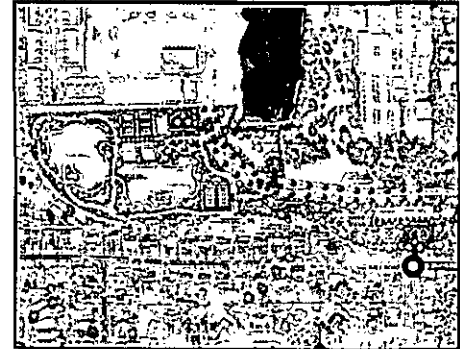


## b. Experience with Projects of a Similar Type and Size

a. **Name and Location** **IVEY ROAD PARK**  
Jacksonville, Florida

b. **ATM's Responsibility**

As part of our ongoing contract with the Department of Public Works for the City of Jacksonville to be the sole Professional Services provider for parks projects south and east of the St. Johns River, ATM was responsible for developing the Ivey Road Park Master Plan. The Master Plan, which combines active and passive park features, covers over 17 acres of city land in the Southside area of town and was historically a remnant dune system. During the master planning process, ATM conducted several community meetings with the local residents, district councilman, and personnel from the City of Jacksonville Parks and Recreation Division. Upon completion of each community meeting changes to the master plan were discussed with city personnel. A color rendering of the master plan and a conceptual Engineer's Opinion of Probable Construction Cost were provided to the city at the end of the master plan phase.



During the design phase, ATM designed stormwater drainage and treatment, potable water services, sanitary sewer services, irrigation, skate park, pervious pavement parking, and site grading. The project required special stormwater treatment requirements due to the landlocked nature of the existing site. ATM designed and permitted a series of dry retention stormwater management systems, grading, pervious parking, roadway/driveway access, and drainage for the park.

c. **Project Owner Representative** **CITY OF JACKSONVILLE**  
Tommy Seaward,  
Engineering & Construction Management, Department of Public Works  
214 N. Hogan St., 10th Floor  
Jacksonville, FL 32202  
904-255-8733  
[Seaward@coj.net](mailto:Seaward@coj.net)

d. **User Agency Representative** Same as above

e. **Date Project Completed** July 2010

f. **Project Manager and Key Staff** Brian Simms, P.E., Project Manager  
Chris Schumacher, P.E., Design Engineer



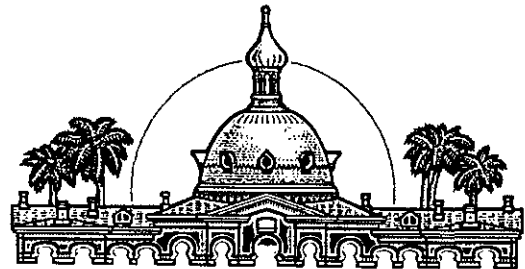
## b. Experience with Projects of a Similar Type and Size

**a. Name and Location**

**TMDL Support**  
Hillsborough County, Florida

**b. ATM's Responsibility**

TMDL support services provided for Hillsborough County included review of multiple TMDLs within the County that were proposed by FDEP and EPA.



**Hillsborough County  
Florida**

ATM initiated specific actions relative to the review of various TMDLs including, Trout Creek, Mill Creek, Baker Creek, Two-Hole Branch, and Spartman Branch. The TMDLs were reviewed, and based upon significant written comments on the modeling and analyses performed for the TMDLs and ongoing meetings with FDEP staff, the TMDLs were put on hold pending development of a more appropriate approach. Presently, ATM is representing Hillsborough County in the development of a path forward to develop accurate and reasonable TMDLs.

ATM recently provided support to the County by developing detailed comments on EPA's Numeric Nutrient Criteria.

**c. Project Owner Representative**

**Hillsborough County**  
David Glicksberg, Environmental Manager  
2420 Falkenberg Road  
Tampa, FL 33619  
813-744-5671  
[glicksbergd@hillsboroughcounty.org](mailto:glicksbergd@hillsboroughcounty.org)

**d. User Agency Representative**

Same as above

**e. Date Project Completed**

Ongoing

**f. Project Manager and Key Staff**

Steven Peene, Ph.D., Project Manager  
Janet K. Hearn, P.E., Project Engineer

Note: A letter of reference from Mr. Glicksberg is included at the end of this section.

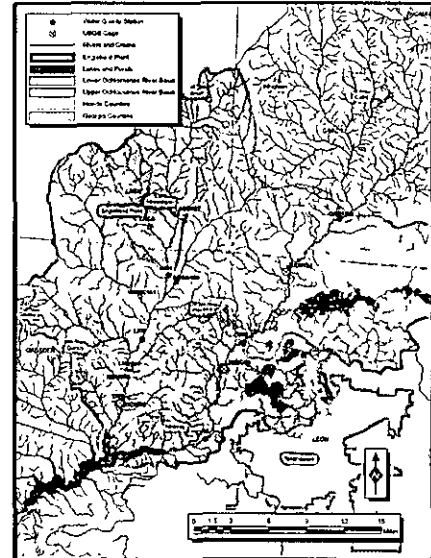


## b. Experience with Projects of a Similar Type and Size

a. **Name and Location** **TECHNICAL AND LEGAL SUPPORT SERVICES FOR LAKE TALQUIN/LITTLE RIVER WATERSHED DISCHARGE ASSESSMENT**  
Leon County, Florida

b. **ATM's Responsibility**

ATM provided technical and legal support by assessment of the impacts of the BASF discharge in Georgia on the stream segments within the Little River Watershed and Lake Talquin. Presently BASF discharges to Little Attapulugus Creek immediately north of the Florida-Georgia border. The facility is discharging through two discharge points, one for waste from the Attapulugus Clay processing plant and the other from onsite stormwater ponds. Both discharges have very high levels of nitrogen (nitrate-nitrite) and phosphorus. These discharges are impacting numerous stream segments including Little Attapulugus Creek, Attapulugus Creek and the Little River which discharges to Lake Talquin. Lake Talquin is currently listed as impaired for nutrients and dissolved oxygen. Utilizing data from watershed monitoring conducted by FDEP and ATM in 2006, ATM assessed the levels of impacts on the Lake and the streams and provided overviews for use by Leon County Legal to support re-opening of the NPDES permit. Additionally, ATM provided calculations of potential percent reductions to meet the new EPA nutrient criteria at the Florida-Georgia border. Finally, ATM staff provided technical support and coordination with GAEPD and EPA Region IV staff.



c. **Project Owner Representative**

**LEON COUNTY BOCC**  
Herb Teal  
County Attorney's Office  
301 S. Monroe Street, Suite 202  
Leon County Courthouse  
Tallahassee, Florida 32301  
Phone: 850-606-2500 / Fax: 850-606-2501  
[thieleh@leoncountyfl.gov](mailto:thieleh@leoncountyfl.gov)

d. **User Agency Representative**

Same as above

e. **Date Project Completed**

Ongoing

f. **Project Manager and Key Staff**

Steven Peene, Ph.D. – Project Manager



## b. Experience with Projects of a Similar Type and Size

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**a. Name and Location**                    **NORTH 2<sup>ND</sup> STREET DRAINAGE**  
Jacksonville, Florida

**b. ATM's Responsibility**

ATM has provided the City of Jacksonville Beach with continuing stormwater management services for over 10 years. In that capacity, ATM was responsible for periodic updates to the City's Stormwater Master Plan, along with development and continuous updating of the City's GIS inventory and mapping database of stormwater infrastructure.



The stormwater improvements for the North 2nd Street project include the removal of an overburdened and out-of-date storm sewer system, the addition of approximately 3,600 linear feet of new gravity storm sewer piping, new inlets and manholes, a new triplex stormwater pump station, and approximately 2,500 linear feet of new 24-inch HDPE directionally drilled forcemain that will discharge to an existing stormwater vault and pump station in downtown Jacksonville Beach. The existing vault pumps water to the City's public golf course to be treated.

Additional stormwater improvements to the City's golf course ponds included the redesign of the golf course ponds, the addition of a new pond with a bulkhead, new equalizer drainage piping, adjustment of existing control structures, and regrading of the surrounding golf course.

ATM provided construction administration services for these improvements including review of shop drawings, conflict resolutions of unknown underground utilities, site inspections, review of contractor payment requests, and final permitting. The new system helped to resolve historic flooding issues from 6th Avenue to 14th Avenue.

**c. Project Owner Representative**    **CITY OF JACKSONVILLE BEACH**  
Arnold "Junior" Lilly, Jr., Construction Project Manager  
1460 Shetter Ave.  
Jacksonville Beach, FL 32250  
904-247-6286 / Fax: 904-247-6117  
[JLilly@jaxbchfl.net](mailto:JLilly@jaxbchfl.net)

**d. User Agency Representative**    Same as above

**e. Date Project Completed**        April 2010

**f. Project Manager and Key Staff**    Tim Taylor, P.E. – Project Manager  
Brian Simms, P.E. – Design Engineer, Construction Administration  
Chris Schumacher, P.E. – Stormwater Design Engineer

Note: A letter of reference from Mr. Lilly is included at the end of this section.



## b. Experience with Projects of a Similar Type and Size

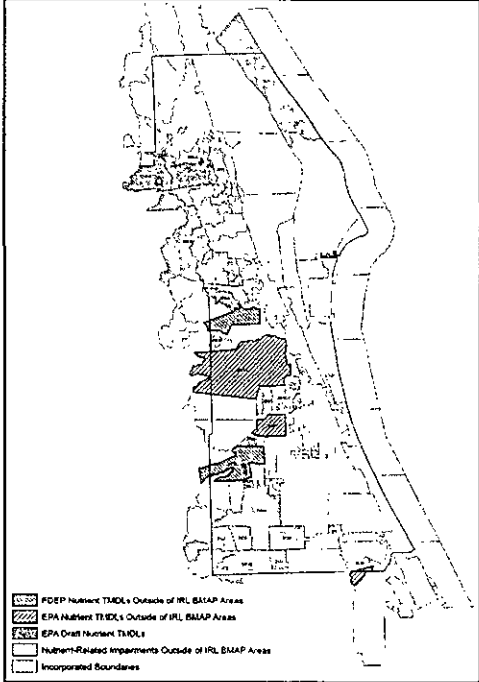
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- a. **Name and Location** **STORMWATER SYSTEM REPAIR, PONDS A & C**  
Jacksonville, Florida
- b. **ATM's Responsibility** ATM designed and permitted a stormwater conveyance system to alleviate current drainage issues and prepare for future expansion. The project included stormwater system repair for 306 acres of the site and consisted of designing a stormwater conveyance system for the 10 year/24 hour storm event, revising wetland impact maps, railroad track replacement, relocation of electrical/telecommunication/security lines, permitting, and construction administration. The system included a combination of *utilizing existing ditches, creating new ditches*, reinforced concrete pipe (up to 72" in diameter), box culverts, railroad crossings, utility conflicts, head walls, and inlets.
- c. **Project Owner Representative** **QC MANAGEMENT**  
Kathleen Ngo, LEED AP BD+C, Vice President  
2933 North Myrtle Avenue, Suite 103  
Jacksonville, FL 32209  
904-838-5055 mobile  
[kngo@qcmanagement.com](mailto:kngo@qcmanagement.com)
- d. **Project User Agency Representative** **BLOUNT ISLAND COMMAND (NAVFAC)**
- e. **Date Project Completed** November 2010
- f. **Project Manager and Key Staff** Brian Simms, P.E. – Project Manager  
Chris Schumacher, P.E. – Stormwater Design Engineer





## b. Experience with Projects of a Similar Type and Size

- a. **Name and Location** **TMDL AUDIT**  
Brevard County, Florida
- b. **ATM's Responsibility** ATM reviewed the status of water bodies within Brevard County relative to impairment listing and ongoing TMDL and BMAP activities. This information was used to develop a detailed risk assessment of potential TMDL/BMAP related capital expenditures and a prioritized list of recommended action items going forward. Following through on these recommendations, Brevard County directed ATM to review the data used to place water bodies on the verified list in order to determine if certain water bodies were improperly designated as impaired and requiring a TMDL. Particular attention was given to dissolved oxygen impairments to determine if the causative pollutant was properly identified or if the low dissolved oxygen is a natural condition. FDEP will not develop a dissolved oxygen TMDL for a naturally occurring condition or if the causative pollutant cannot be identified. In addition, ATM is coordinating directly with the FDEP TMDL writers to review TMDL approaches and analyses in advance of the public release of draft TMDLs.
- 
- c. **Project Owner Representative** **BREVARD COUNTY**  
Virginia Barker  
Brevard County Water Resources  
2725 Judge Fran Jamieson Way  
Government Center, Bldg. A, Room 219  
Viera, FL 32940-6605  
321-633-2014  
[Virginia.Barker@brevardcounty.us](mailto:Virginia.Barker@brevardcounty.us)
- d. **Project User Agency Representative** Same as above
- e. **Date Project Completed** ongoing
- f. **Project Manager and Key Staff** Janet Hearn, P.E., Project Manager  
Steven Peene, Ph.D., Principal Scientist

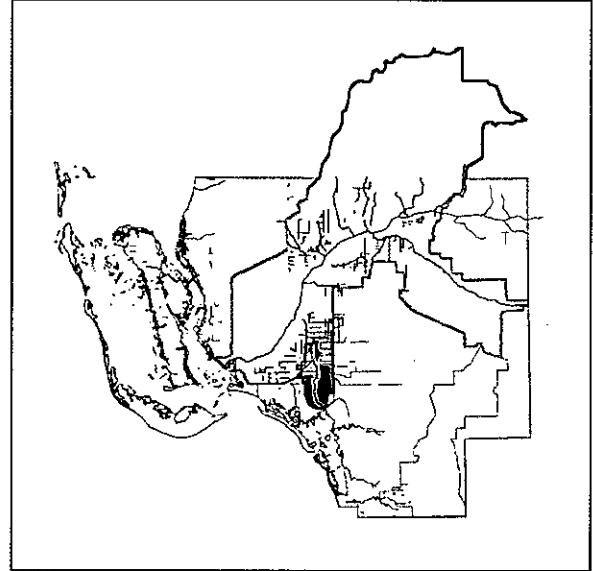


## b. Experience with Projects of a Similar Type and Size

a. **Name and Location** **TMDL AND BMAP SUPPORT**  
Lee County, Florida

b. **ATM's Responsibility**

ATM is providing comprehensive TMDL and BMAP support to Lee County through review of both adopted and proposed FDEP and EPA TMDL documents, detailed review of models used to develop TMDLs, review of waterbody listing data, and review of specific load allocations proposed during the BMAP process. Detailed comments on TMDLs and BMAP allocations were submitted to FDEP and EPA. FDEP's acceptance of



ATM's recommendation to utilize a more robust and scientifically justifiable alternative to FDEP's load calculation methodology for the Hendry Creek and Imperial River BMAPs resulted in a *potential savings to Lee County of tens of millions of dollars* by decreasing required total nitrogen reductions by 73 percent.

c. **Project Owner Representative**

**LEE COUNTY**  
Karen Bickford, TMDL Coordinator  
Division of Natural Resources  
PO Box 398  
Fort Myers, FL 33902  
239-533-2111  
[KBickford@leegov.com](mailto:KBickford@leegov.com)

d. **User Agency Representative**

e. **Date Project Completed** Ongoing

f. **Project Manager and Key Staff**

Janet Hearn, P.E. – Project Manager  
Steven Peene, Ph.D. – Project Manager

Note: A letter of reference from Ms. Bickford is included at the end of this section



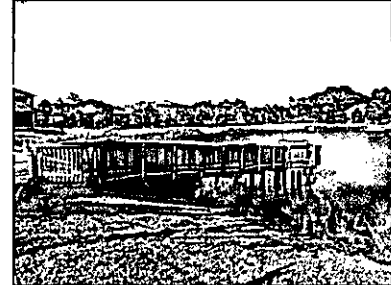


## b. Experience with Projects of a Similar Type and Size

a. **Name and Location** **GRAND HAVEN COMMUNITY DEVELOPMENT DISTRICT**  
Flagler County, Florida

b. **ATM's Responsibility**

ATM's work as Grand Haven CDD's District Engineer focuses on roads, stormwater, utilities (coordination w/ City owned utility system), parks, traffic, piers, Capital Improvement Plan (CIP), and other engineering related issues for the CDD.



ATM is currently working with the CDD to resolve issues with their failing infrastructure. Many of the existing stormwater structures have been assessed and recommendations have been made for their repair/replacement within the treatment ponds. Several roads have been identified for resurfacing or maintenance. Settling issues have been examined around a few sanitary manholes and ATM has made repair recommendations based on findings.



ATM attends Board of Supervisors meetings and provides Board Members and the public with updates on various Engineering related issues.

c. **Project Owner Representative** **GRAND HAVEN COMMUNITY DEVELOPMENT DISTRICT**  
Barry Kloptosky  
Grand Haven Operations Manager  
2 North Village Parkway  
Palm Coast, Florida 32137  
Phone: 386-447-1888  
Fax : 386-447-1131  
[barry04@cfl.rr.com](mailto:barry04@cfl.rr.com)

d. **User Agency Representative** Same as Above

e. **Date Project Completed** Ongoing

f. **Project Manager and Key Staff** Brian Simms, P.E. – Project Manager/Design Engineer  
Kayle Moore, P.E. – GIS



## b. Experience with Projects of a Similar Type and Size

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### 2. Current Contracts

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ATM is presently under contract for the following projects that demonstrate the firm's capabilities and qualifications for **Stormwater Engineering** projects.

- **FDOT Statewide Stormwater Management Plan Revision** – ATM is studying the current FDOT Stormwater Management Plan and policies throughout the Districts and will be rewriting the Statewide Stormwater Management Plan for the FDOT. The Plan will be rewritten to include some of the TMDL requirements and a revised maintenance and inspection frequency which will usurp the pending inspection and maintenance frequencies as prescribed by the EPA through the FDEP in the current draft permit language in the upcoming MS4 permit renewals.
- **FDOT Stormwater Monitoring** – ATM is conducting stormwater quality monitoring for FDOT at six rural roadway locations throughout the State that reflect varying soil types, pervious versus impervious area, and overall potential pollutant loadings. The primary study objective is to determine event mean concentrations of nutrient and metal parameters specifically for road land use. Such data can be used to determine actual pollutant loadings and TMDL allocations for FDOT right-of-ways. The goal is to develop alternate EMC values for rural roadways for use in TMDL development and the Statewide Stormwater Rule.
- **Grand Haven Continuing Engineering Services** – Grand Haven CDD selected ATM as their District Engineer in 2010. ATM's work thus far has focused on roads, stormwater, utilities (coordination w/ City owned utility system), parks, traffic, piers, Capital Improvement Plan (CIP), and other engineering related issues for the CDD.
- **Jacksonville Beach Continuing Stormwater Engineering Services** – ATM has provided the City of Jacksonville Beach with continuing *stormwater management* services for over 10 years.
- **Port Royal, SC Cypress Wetland and Drainage Improvements** – ATM is currently overseeing construction to improve stormwater flow, treat stormwater, to restore proper wetland hydrology, and correct flooding issues with five large interconnected wetland systems in the Town of Port Royal.
- **Pasco County TMDL Support Services** – ATM is assisting with development of an initial planning document for the County outlining specific actions to take under the TMDL program, as well as ongoing monitoring and reporting.
- **Hillsborough County TMDL Services** – ATM provides technical review and legal support to Hillsborough County on TMDLs developed on tributaries to the Hillsborough River.
- **Lee County TMDL and BMAP Support** – ATM is providing support to Lee County on Hendry Creek, Imperial River, and Tidal Caloosahatchee BMAPs. ATM also provided reviews of recently released EPA TMDLs within Lee County.



## b. Experience with Projects of a Similar Type and Size

### 3. Quality Assurance Process and Procedures

ATM's experienced project managers assisted in the development of our quality assurance and quality control (QA/QC) manual and processes. In addition to the use of the QA/QC manual to ensure the quality of all project deliverables, the manual also assists in the achievement of the following goals:

- Ensure that current design standards, codes, and other regulatory direction are used as appropriate.
- Increase productivity and quality by doing it right the first time. We have found that proactive rather than reactive QA/QC measures during the early stages of projects are more efficient and cost effective than revisions to work already completed or in progress.
- Achieve effectiveness and objectivity by conducting key quality control procedures with personnel independent of the project team.
- Actively develop a "quality oriented" company culture.
- Project for flexibility and responsiveness by customizing quality procedures to suit the particular type of project, experience of the project staff, client expectations and potential liability.
- Promote and expand the transfer of technical knowledge from senior-level project engineers and scientists to junior-level staff.

The Project Manager will be responsible for review and delivery of all work products.

In addition to the Project Manager, key members of the project team including the Project Engineer(s) and the Quality Control Coordinator (QCC) will be responsible for review of all submittals to the County.

The **Project Quality Control Procedures** used in establishing a QA/QC plan for a project include the following:

#### 1) Propose the Project

During the pre-contract phase of the project, the proposed scope, budget, and schedule of the project is reviewed by the QCC. The reasonableness of the budget and schedule to produce the proposed scope of services will be carefully reviewed. The QCC ensures all permitting has been considered and reviews "big picture" issues, such as potential outside-of-project-area issues, that could impact design or implementation of the design intent.

#### 2) Project Planning

The project team prepares the detailed work plan for execution of the scope of services. The PM prepares the Quality Control Plan that is integrated into the overall Project Work Plan. In conjunction with this process, the QCC assists the PM in reviewing the suitability of the overall Project Work Plan.

#### 3) Organize Resources

The QCC and the PM coordinate and schedule resources for the project quality procedures. The resources for quality activities are typically independent of the project team. Determination of appropriate reviewers and their availability to perform review tasks are key



## b. Experience with Projects of a Similar Type and Size

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components of this process. The PM coordinates the quality activities and adapts them to changes in the project schedule.

### 4) Direct Activities

This phase of the project is critical to keeping the project on track technically and in a "do it right the first time" mode. The quality activities that are conducted during this phase include, but are not limited to, the following:

- Interim and Draft Report Reviews
- Initial Checking (Design Projects)
- Technical Review Committee Meetings
- Project Audits

For design projects, the quality control checklists are adhered to at least during the 90% and 100% drawing level prior to submittal for client or agency review. In addition, the Redi-Check method, which provides a logical and orderly approach to checking drawings and specifications at the 100% design stage, is also implemented to reduce the occurrence of errors and omissions.

### 5) Control Activities

The use of the above elements and the levels of effort are customized to suit the needs of each project. Experience has shown that a well checked design significantly reduces potential claims and the change order rate during construction. In construction management of projects designed by other engineers, observations have shown that a poorly checked project may yield a change order rate of 10% or more. Minimal checking will reduce that rate to 5% or less while well checked projects can result in a change order rate of 1.5% or less, exclusive of major scope changes.

This phase involves verifying that project completion complies with the project scope of work and quality procedures and represents a major quality effort in terms of resources and coordination. Typically, control activities apply to design projects where ATM has prepared calculations, drawings, and specifications. Quality activities conducted during the controlling phase include, but are not limited to, the following:

- Final Checking (Red Line/Yellow Line)
- Cost Estimate Checking
- Bidability/Constructability Reviews

### 6) Close the Project

The final quality activity for a project is to verify that the project close-out procedures are completed. These activities include, but are not limited to, the following:

- QC Certification Plan (Final Approval)
- Project Filing
- Project Number Close-out



## b. Experience with Projects of a Similar Type and Size

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### 4. Project Resources

In addition to our office space in Tallahassee, Gainesville, and Jacksonville, our offices are fully equipped with enough support staff, computers, printers and plotters necessary to perform all work required by the County. Special resources that may be used in performance of work assigned as a result of this contract include our extensive water resources modeling capabilities and our GIS capabilities.

#### **Sampling Capabilities**

ATM maintains ISCO Avalanche automated, refrigerated water sampling equipment for use in stormwater event sampling. Samplers are coupled with area-velocity flow modules and tipping rain gauges in order to obtain a complete picture of sampled storm events. Where power is not available, sampling stations have the option of being powered via 12-volt battery connected to a solar panel for recharging. Data stored on the samplers are downloaded and processed via Flowlink software.

#### **Modeling Capabilities**

ATM has offered water resources modeling as a core service since the firm's inception in 1984. Our modeling experts are proficient in the use of a broad range of tools that simulate all aspects of the hydrologic cycle to address clients' needs. ATM provides *modeling support services for stormwater master planning and watersheds*, environmental impact evaluations, Environmental Impact Statements (EIS), NPDES permitting, TMDL development, water and wastewater design, coastal erosion studies, waterfront design, and municipal consumptive supply.

#### **GIS Capabilities**

ATM has comprehensive Geographic Information Systems (GIS) and remote sensing (RS) capabilities and uses a variety of GIS/RS software to produce geographic datasets and map figures and support modeling and spatial analysis. ATM routinely uses aerial and satellite imagery to derive and refine GIS data. Our projects can be augmented with full Global Positioning System (GPS) capabilities, including both sub-meter data collection and RTK GPS for highly accurate topographic elevation data.

ATM leverages the data interoperability of GIS to combine and convert disparate spatial information and develop sophisticated tools and products. GIS data models are customized to meet specific client requirements for infrastructure asset management, analysis, modeling and master planning. Our products include water and wastewater infrastructure atlases and geodatasets, population projection and master planning studies, detailed vegetation and land cover maps, stormwater structure inventories, reuse feasibility analyses, and basemaps for use in hydraulic and water quality modeling, hydrodynamic modeling, and ecological modeling.

*Additional information* about specific software, services, and models that are available for use on County projects is included on the following page.

# Computer Resources

## Mapping/CAD/Graphics Programs

- ArcInfo Workstation/ArcGIS Desktop 9.3 with Spatial-3D-Geostatistical Analyst Extensions
- ArcView 3.x
- AutoCAD Civil 3D 2011, AutoCAD Map 3D 2011
- CorelDraw 11.0
- Adobe Photoshop CS4, Adobe Imagestyler, Adobe Image Ready, Adobe Acrobat 9.0 Professional
- Frontpage 2004

## Operating Systems and Web Services

- Microsoft Windows Server 2003, 2008 and Windows Active Directory
- Blackberry Enterprise Server
- Microsoft Exchange and Outlook 2007
- Microsoft IIS 6.0
- Windows XP
- Microsoft SQL Server 2005
- Windows 7 x64

## Project Support Programs

- BST Enterprise
- Microsoft Office 2007 Professional (Word, Excel, Powerpoint, Access, Microsoft Project, and Visio)
- Tides and Currents
- Chartview

## Programming and Visualization Tools

- Digital Visual Fortran
- Absoft Fortran
- Lahey LF95 Pro
- Tecplot 10
- SURFER
- GRAPHER
- JAVA
- Visual Basic for Applications (VBA)
- ArcGIS VBA
- Python (ArcGIS Programming)

## Statistical Analysis Programs

- MATLAB (Statistics Toolbox, Neural Network Toolbox, Signal Processing Toolbox)
- DIWASP
- Statistica/W
- HEC-FDA

## Surface Water, Hydrodynamic, and Water Quality Models

- WASP6
- QUAL-II
- CLHYD
- WQMAP (BFHYDRO, BFWASP)
- CE-QUAL-W2
- SMS
- EFDC
- SSFATE
- CORMIX
- D-CORMIX
- Visual PLUMES
- BATHTUB
- MIKE21, MIKE11
- ECO Lab

## Stormwater Models

- XP-SWMM
- HEC-WMS, HEC-1, HEC-HMS
- ICPR3
- TR-55
- CASCADE (SFWMD)
- InfoSWMM
- StormNET

## Ground Water Models

- MODFLOW Modular Flow Model
- MOC Containment Transport Program
- MODRET

## Watershed Runoff Models

- HSPF
- Non-Point Source Model (NPS-2)
- BASINS
- WAM
- WMM

## Flood Plain and Reservoir Hydraulic Models

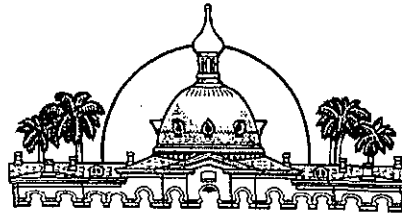
- EXTRAN
- HEC-RAS, HEC-2, HEC-5, HEC-ResSim
- WSPRO
- FLDWAV
- BREACH

## Water and Sewer System Models

- InfoWater
- InfoSWMM
- WaterGEMS
- SewerCAD

## Coastal Engineering Models

- CERC ACES/MACE
- WHAFIS
- ISRP/BPAS
- DNR and EDUNE Erosion Models
- USACOE Coastal Modeling System
- CEDAS 4.0 (GENESIS-T, ACES, NM-Long, RCP Wave, STWAVE, S-BEACH, EST, RELIABLE)
- SWAN
- DNRBS
- SDM
- SMS
- CGWAVE and BOUSS-2D
- ADCIRC
- CHAMP



Hillsborough County  
Florida

Office of the County Administrator  
Michael S. Merrill

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Eric R. Johnson  
Edith M. Stewart  
J. Eugene Gray, Acting  
Sharon D. Subadan, Interim  
Mark J. Thornton, Interim

March 16, 2011

Steven Peene  
Vice President  
Applied Technology and Management, Inc.  
1435 East Piedmont Drive, Suite 210  
Tallahassee, FL 32308

Re: Letter of Recommendation

Dear Mr. Peene,

This is to provide a letter of recommendation for Applied Technology Management, Inc. (ATM). For the past year and a half, ATM has provided support to Hillsborough County in the evaluation and subsequent challenge of several Total Maximum Daily Load (TMDL) requirements proposed by the Florida Department of Environmental Protection, and the U.S. Environmental Protection Agency. The scope of work has consisted of reviewing and evaluating the proposed TMDL's, providing comments back to the regulatory agencies, and providing support in resolving the subsequent legal challenge to several of the TMDL's, including the development of alternative TMDL's. To date, the work performed has been rated as superior, which is the highest category in Hillsborough County's consultant evaluation system. ATM has consistently provided superior customer service, and has always met the agreed upon schedule and budget for this work.

Sincerely,

David Glicksberg, P.G.  
Environmental Manager  
Hillsborough County Public Works

# City of Jacksonville Beach



ELEVEN NORTH THIRD STREET • JACKSONVILLE BEACH, FLORIDA 32250

September 15, 2010

To Whom It May Concern:

The City of Jacksonville Beach over the past fourteen years has utilized Applied Technology & Management, Inc. (ATM) to design, permit, and provide construction inspection and administrative services on a variety of stormwater projects through-out the limits of Jacksonville Beach. The latest services provide by ATM was for the design, permitting, inspection and construction administration services for our new stormwater drainage system along North 2<sup>nd</sup> Street North from 6<sup>th</sup> Avenue to 13<sup>th</sup> Avenue, as well as the modification and addition of an additional stormwater management facility located at the city golf course for the treatment of the additional stormwater. ATM also designed the triplex stormwater pump station to transport water from 9<sup>th</sup> Avenue, along North 2<sup>nd</sup> Street, to the city's downtown stormwater vault, which was then pumped from the downtown vault to the city golf course for treatment. The construction cost of this project was in excess of \$3,400,000.

We are very pleased with ATM's excellent work on this project as well as all the other projects completed during the time that ATM has worked with the City of Jacksonville Beach. They worked well with our staff, and did a thorough analysis using as much historical information as possible. ATM also did a wonderful job of presenting project updates to our City Council and answering their questions at public workshops.

Based on our experience, I would be happy to recommend Applied Technology & Management for similar work and look forward to working with their staff on future projects. Feel free to call me at 904-509-0268 if you have any questions.

Sincerely,

Arnold F. Lilly Jr.  
Construction Project Manager  
Public Works Department  
[jlilly@jaxbchfl.net](mailto:jlilly@jaxbchfl.net)





**LEE COUNTY**  
SOUTHWEST FLORIDA

**BOARD OF COUNTY COMMISSIONERS**

Bob Janes  
*District One*

A. Brian Bigelow  
*District Two*

March 16, 2010

Ray Judah  
*District Three*

Mr. Steve Peene

Tammy Hall  
*District Four*

1435 E Piedmont Dr,  
Tallahassee, FL 32308

Frank Mann  
*District Five*

Dear Mr. Peene:

Karen B. Hawes  
*County Manager*

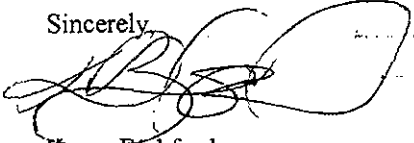
David M. Owen  
*County Attorney*

Diana M. Parker  
*County Hearing Examiner*

Regarding ATM's recent assistance with the Caloosahatchee, Hendry Creek and Imperial River TMDL review and BMAP planning efforts; it has been a pleasure working with ATM. Lee County staff have remarked positively on the efforts put forth by you and Ms. Janet Hearn, the adept model review, data analysis and distillation of potential impacts to our organization resulting from the State's pending policy decisions.

I would not hesitate to contract with ATM in the future for these services and would highly recommend your company to anyone seeking similar assistance.

Sincerely,



Karen Bickford  
Planner/TMDL Coordinator  
Lee County Division of Natural Resources

CC: Roland Ottolini, Division Director



# Proposal to Provide Stormwater Engineering

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## c. WILLINGNESS TO MEET TIME & BUDGET

ATM is experienced in the successful initiation, management, and completion of multitasked engineering projects. In addition to weekly or bi-weekly project team meetings to discuss workload and progress, ATM uses the **BST Enterprise Project Management Software** to ensure *schedules* and *budgets* are on track and remain within budget during the life of the project.

BST is a web-based, management information system specifically designed for professional service organizations. The BST Enterprise software system provides real time information to project managers (PMs) on various components of project management which are critical to successfully *keeping a project on schedule and within budget*. Some of the components measured and monitored by BST Enterprise include *billings per employee, task and project remaining and total budgets, project expense charges, and percent complete*.

The BST accounting system allows *project managers to track project costs weekly*. Every employee is required to complete an electronic timesheet and an electronic expense report at the end of each week indicating the number of hours spent and costs incurred on projects. This information is available to the Project Manager by Monday of the following week, giving our PM's access to accurately track costs. This process allows PM's to identify potential problems with a project budget early on. The project Principal also reviews the project periodically with the PM to evaluate the financial status of the project and ensure that appropriate cost control measures are in place.

Project Managers can either review project status items individually or produce reports with key indicators of project status including budget, billings, expenses and percent complete. Some of the key project reports produced by the BST software include the following:

The **Comprehensive Project Status Report** represents a high-level report that is used to analyze the overall status of projects. Information such as budgeted hours and effort are displayed and compared to actual hours and effort used. In addition, forced overrides to revenue, in the form of percent complete and/ or revenue adjustments, are displayed. Total billings are displayed as well as the remaining accounts receivable and unbilled revenue balances. This Comprehensive Project Status Report is useful for project managers in assessing the overall status of their projects as they are related to budgeted dollars used, profitability, and unbilled revenue.

The **Project Detail Charges Report** is used to display all project-related charges within a specified transaction date, period-end date, or accounting period range. Entry of such transactions into the system is facilitated by a wide range of input activity, such as time cards, vouchers, unit pricing, journal entries, billing transfers, etc. Transaction lines display information such as the hours / quantity, cost, and effort associated with every phase / task / organization within a project. This report is very useful in analyzing a complete audit trail of detailed transactions associated with project related charges.

The **Project Effort Report** is used to display project labor and expense cost and effort values associated with projects and their corresponding phases and tasks within a specified accounting period range. Labor cost and effort is accumulated at the employee level for every phase / task associated with the given project. Total labor and expense budgets are displayed for each phase /



### c. Willingness to Meet Time & Budget

task so that the percent of the budget that has been used can be derived. This report is useful for analyzing percent used and percent complete information as well as summarized cost and effort amounts for employees and vendors / General Ledger expense accounts across individual phases and tasks within specified projects.

The BST Enterprise software is a powerful tool which allows the Project Manager to keep abreast of all project charges and completion levels. The project management software ensures that the project manager knows when the budget and expenses are tracking together and when they begin to diverge. Detailed analysis of the project management reports can provide a means by which to bring projects with overrun potential back on track. Use of this software on a daily or weekly basis allows a project manager to proactively avoid project overruns.

The screenshot displays the BST Enterprise 8.2A.1 interface within a Microsoft Internet Explorer browser. The browser address bar shows the URL: http://hot.iscsp.com/auraweb/BST\_ProdDB.asp. The page title is 'Comprehensive Project Inquiry' and the company name is 'Applied Technology & Management'. The interface includes a navigation sidebar on the left with options: Selections, Summary, Multi Level, Analysis, WBS, History, and Detail. The main content area shows a report for Project Name: JEA Buckman WWTF Odor Control and WBS Level: Phase. The report table is as follows:

Phase	Unbilled (PTD)	Revenue	Bill Effort	W/Re	A/R (PTD)	Rev Adj	Write Offs	Total Budget	Net Multiplier	Lbr Bdg Eff
0001	0.00	3.46	0.00	3.46	0.00	3.46	0.00	0.00	0.00	0.00
	0.00	18,554.87	0.00	0.00	0.00	0.00	0.00	48,790.00	4.05	45,000.00
Totals	0.00	18,558.33	0.00	3.46	0.00	3.46	0.00	48,790.00	4.05	45,000.00

At the bottom of the report area, there are buttons for 'Close', 'Queries', 'Commitments', '<Up A Level', 'Drill Down', and 'Report'. The Windows taskbar at the bottom shows the Start button, taskbar icons for Inboxes, BST Enterprise 8.2A, and Microsoft Excel, along with the system clock showing 12:50 PM.



# Proposal to Provide Stormwater Engineering Services

## d. EFFECT OF RECENT, CURRENT, AND PROJECTED WORKLOAD

All of the assigned personnel have availability to fully support this project. The project staff can and will commit to providing Leon County with the required level of service, along with the necessary resources to ensure timely completion of the work.

The ATM project team *is available to begin work immediately* upon signing of a contract with the County. All staff members are expected to be available throughout the duration of the projects.

The following table displays projects currently under contract being performed by members of ATM's proposed team.

Project Name	Description	Anticipated Completion
Brunswick-Glynn Co JWSC Water & Sewer Master Plan	ATM is preparing a master plan to assess the status of the system and plan for the 20-year capital improvements necessary to meet the current and projected service area needs. ATM continues to provide additional support to the JWSC related to the Master Plan and recommended Capital Improvement Plans	Ongoing
FDOT Statewide TMDL and BMAP Support	ATM provides continuing TMDL and BMAP support to FDOT as outlined in the statewide TMDL plan prepared under previous work tasks	Ongoing
Grand Haven Continuing Engineering Services	ATM is serving as District Engineer.	Ongoing
SJCUD Moultrie Creek Pipe Crossing	ATM is providing construction phase services for repair of water and sewer mains.	August 2011
JEA Arlington East Process Evaluation	ATM is investigating chlorine usage on the reuse process and will prepare a technical memorandum with the findings.	April 2011
Hillsborough County TMDL Support	ATM provides technical review and legal support to Hillsborough County on TMDLs developed on tributaries to the Hillsborough River.	Ongoing
Jasper County Engineering Services	ATM is providing continuing engineering support for planning and zoning activities.	Ongoing
Nashville LAS and Watershed Assessment	ATM is providing engineering support services for land application system associated with treatment plant expansion and prepare watershed assessment plan and monitoring.	January 2012
Port Royal Fort Frederick Sewer Extension	ATM is providing engineering services to complete the Town of Port Royal Sewer Main Extension to Fort Frederick Circle and Fort Frederick Street.	August 2011
JEA University Blvd Watermain	ATM is designing and permitting a replacement watermain along University Blvd. from Stetson Rd. to St. Augustine Rd.	April 2011
FDOT Stormwater Monitoring	ATM is conducting stormwater quality monitoring for FDOT at six rural roadway locations throughout the State that reflect varying soil types, pervious versus impervious area, and overall potential pollutant loadings.	2011
Clear Lake Pump Station	ATM is providing construction administration services for the Clear Lake Pump Station rehabilitation.	July 2011
Legal Support Services – Leon County	ATM is providing technical and legal support in relation to assessment of the impacts of the BASF discharge in Georgia on the stream segments within the Little River Watershed and Lake Talquin.	Ongoing



#### d. Effect of Recent, Current, and Projected Workload

Project Name	Description	Anticipated Completion
FDOT Statewide Stormwater Management Plan	ATM is assisting FDOT with development of a statewide stormwater management plan.	May 2011
Pasco County TMDL Support Services	ATM is assisting with development of an initial planning document for the county outlining specific actions to take under the TMDL program, as well as ongoing monitoring and reporting.	Ongoing
JEA Orange Street Reservoir	ATM is helping to prepare an RFQ package for JEA to solicit Design Build Proposals for replacement of the Orange St. Reservoir at the Main St. WTP.	January 2011
JEA Standish PS Pump Replacement	ATM is reviewing the hydraulic model prepared by JEA and select replacement pumps for the station.	June 2011
JEA Yulee WWTP Effluent Transfer Pump	ATM is providing professional engineering services for the design of modifications to the effluent transfer pumps and electrical controls/equipment at the Yulee, Nassau County WWTF.	July 2011
Lee County TMDL & BMAP Support	ATM is providing support to Lee County on the Hendry Creek, Imperial River, and Tidal Caloosahatchee BMAPs. ATM also provided detailed review of recently release EPA TMDLs within Lee County.	Ongoing
Vac-Con Stormwater Evaluation	ATM is providing stormwater master planning for Vac-Con's fabrication and assembly plant in Green Cove Springs.	May 2011
Vista Landfill ERP Modification	ATM is providing engineering services for an ERP modification to the FDEP for a revised drainage plan for the build-out of the Vista Landfill.	April 2011

Based on the current and projected workload, ATM does not foresee difficulty absorbing projects resulting from this contract.



## Proposal to Provide Stormwater Engineering Services

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### e. EFFECT OF PROJECT TEAM LOCATION

The team we are proposing will draw from expertise in several of our North Florida offices. Staff in ATM's Tallahassee, Gainesville, and Jacksonville offices are well located to provide efficient and comprehensive support to Leon County. All staff will be assigned according to specific task assignments and individual expertise.

Project Director, Steven Peene, Ph.D. is located in ATM's Tallahassee office and will make all project assignments to the project team. The Project Manager, Janet Hearn, a Florida Professional Engineer, is based out of ATM's Gainesville office. Dr. Peene and Ms. Hearn work together on many projects for clients throughout the state and communicate on a daily basis. ATM has a proven track record of providing quality service at reasonable cost to clients regardless of geographic location. When necessary, staff will work from ATM's Tallahassee office.

ATM has projects all over north Florida and our staff commonly work out of other offices as necessary to support a project. Our IT systems also ensure the connectivity, networking, and file sharing abilities necessary to provide our staff the ability to reach and use all necessary project files even when working remotely. The flexibility of our staff members and our excellent support systems will ensure ATM's ability to meet any project requirements and County needs.

As the Project Director and ATM's Tallahassee representative, it is expected that Dr. Peene will be the first point of contact for the Community. Team members from the Gainesville and Jacksonville offices will provide additional support to the public and conduct on-site visits as needed in order to fulfill the requirements of project tasks.



# Proposal to Provide Stormwater Engineering

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## **f. APPROACH TO PROJECT**

ATM strongly believes that proper initial planning and weekly time and budget tracking lead to a superior final deliverable completed on time and within budget. It is anticipated that the initial request for a proposal from Leon County for a particular task will be made through the Project Director, Steve Peene, located in ATM's Tallahassee office. Dr. Peene will coordinate with the Project Manager, Janet Hearn, to identify the appropriate staff to complete the work requested. The Project Manager, and possibly a key staff member or the Project Director, will meet with the County's assigned Project Manager to discuss project expectations, budgetary constraints/assumptions, schedules, and anticipated hurdles.

Once the ATM management team has a clear understanding of the project, the individual team members from each service area discuss all elements of the project and identify potential issues in an effort to uncover concerns at an early stage of the project. All team members responsible for providing critical data attend this meeting to provide input and schedule the upcoming task with their team. The team will develop a scope of work and budget for submittal to the County's Project Manager. If necessary, a second meeting will be scheduled with the County and ATM management to discuss each element of ATM's proposal from start to finish. ATM staff will begin work immediately upon the County and ATM reaching consensus on project scope and budget.

In addition to day-to-day communication between individual ATM team members, the team schedules weekly to bi-weekly project team meetings. Using established agendas, all team members are updated on work progress, and, if necessary, resources are re-allocated to ensure that all tasks remain on track for completion within the assigned budgetary and temporal framework.

Throughout the project, we will maintain communication via phone, email, and mail with the County to ensure that the County's staff is aware of a project's status. Our goal is not to overwhelm staff with excessive correspondence, but to keep them apprised of the project's status, upcoming deliverables, and potential issues. This approach allows us to work more as an extension of the County's staff and to avoid project surprises.