

CARLOS W. NORRIS

Vice President / Division Manager

Summary of Professional Experience

Extensive construction knowledge of field and management with over twenty-five years of experience in water and wastewater treatment plant construction. As Division Manager, Carlos provides direction and vision for future endeavors and operational growth. He is responsible for business planning, annual revenues, and organization structure. During his eight years as the Operations Manager, he was responsible for oversight of \$80 million annually in projects for the Civil & Environmental Division. He has carried that knowledge and experience, gained over the past 25 years, to lead Crowder's largest Division. His leadership style has set an expectation for service to our clients, creative problem solving and clear and open communication. The standards he has set has resulted in recognition of Crowder as the premier contractor in the water/wastewater industry, capabilities to complete larger projects, increased repeat business through strong relationships and success in the alternative procurement markets. He has been directly involved with projects ranging from \$500,000 to over \$70,000,000.

Professional Development

- Primavera Scheduling
- 7 Habits of Highly Effective People Training
- Bell Leadership
- Bell Executive Roundtable
- Perspective on Leadership
- Leading in a Changing Environment
- Effective Negotiating

Representative Project Experience

- Sara Lee WWTP Expansion, Tarboro, NC
- Kimberly-Clark WWTP Expansion, Loudon, TN
- Union Camp WWTP Expansion, Franklin, VA
- Buckeye Lumberton WWTP, Lumberton, NC
- Columbus WWTP, Columbus, GA
- Durham County WWTP, Durham, NC
- Johnston County WTP, Smithfield, NC

Areas of Expertise

- Partnering Attitude – encourages and develops teaming relationships.
- Team Building
- Service to our Clients
- Motivator
- Clear and Open Communication
- Creative Problem Solving
- Leadership Style that empowers others to be successful

JOHN MCINTYRE

Senior Project Manager

Summary of Professional Experience

Diverse background in the construction industry with over fifteen years experience in commercial and water and wastewater treatment construction. A unique combination of estimating and project management, particularly skilled in the civil aspects of construction work, bringing a unique combination of technical and “hands-on” expertise. Verifiable track record of managing complex projects and exceeding expectations. Sustains proximate responsibility for budgeting and planning and project methodologies.

Education

- B.S.//Civil Engineering//University of Cincinnati

Professional Development

- Primavera Scheduling
- 7 Habits of Highly Effective People Training

Representative Project Experience

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| <ul style="list-style-type: none"> • James A. Loughlin Expansion
Wilmington, NC • Gilder Creek Wastewater Treatment Plant
Greenville, SC • T.Z. Osborne Wastewater Treatment Plant
Greensboro, NC • Boise Wastewater Treatment Plant
Boise, ID • Camp Lejeune Wastewater Treatment Plant Upgrade Phase II
Jacksonville, NC • Jacksonville Treatment Plant Upgrade
Jacksonville, NC • Camp Lejeune Wastewater Plant Upgrade Phase I
Jacksonville, NC • Cherry Point Wastewater Treatment Plant
Havelock, NC • Hillsborough County Sludge Treatment Facility • Jackson Pike Wastewater Treatment Plant
Columbus, OH • Fernald Wastewater Treatment Plant
Cincinnati, OH | <ul style="list-style-type: none"> \$69 million \$44 million \$ 5 million |
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Areas of Expertise

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|---|--|
| <ul style="list-style-type: none"> • Safety – Coordinate and monitor compliance with all safety requirements. • Value Engineering | <ul style="list-style-type: none"> • Self motivated. • Excellent communicator. • Team oriented. |
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CHRIS ROBARDS

Project Manager

Summary of Professional Experience

Chris Robards has proven himself to be one of Crowder's top Project Managers. Upon graduating with a degree in Civil Engineering, Chris immediately entered the water industry. He developed a habit of setting high personal standards and taking full responsibility for project outcomes. Chris has developed a reputation for completing projects in an organized, professional, and timely manner. He has taken the time to develop technical expertise in process equipment and systems and to develop an understanding of facilities and their operational needs. The result has been strong partnerships with owner and engineer clients and recognition through awards and successfully completed projects

Education

- B.S./2001/Civil Engineering/Purdue University

Professional Development

- Primavera Scheduling
- 7 Habits of Highly Effective People Training

Representative Project Experience

- **Cherry Point WWTP, Cherry Point, NC** \$14 million
Demo and removal of structures, removal and disposal of contaminated soil and industrial ww sludge. Mods to primary clarifier, distribution box, secondary clarifier effluent, pump stations, aeration reactors, UV disinfection system, and anaerobic digestion system. Provisions for cast in place concrete clarifier, sludge blending tank and bldgs: polymer feed, alum feed, acetic acid feed, non-potable water PS, primary clarifier sludge and scum PS, RAS/WAS PS, gravity thickener influent PS.
- **Northside WWTP Expansion and Upgrades, Wilmington, NC** \$70 million
The Project was an expansion of the City's 8 MGD plant to a 16 MGD plant. Included a new grit facility, primary clarifiers, aeration basin, secondary clarifiers, tertiary filters, UV disinfection structure, effluent pump station, anaerobic digester, sludge thickening system.
- **Gilder Creek WWTP Expansion, Phase II, Greenville, SC** \$44 million
Managing Principal for various wastewater projects under the term contract.

Areas of Expertise

- Safety – Coordinate and monitor craft compliance with all safety requirements.
- Substantial energy level – captivates initiative, addresses issues proactively, and brings to swift resolution.
- Coordination of subcontractors and vendors.
- Self motivated.
- Excellent communicator.
- Team oriented.

GREG COCHRAN, P.E.

Electrical Operations Manager

Summary of Professional Experience

Greg has led Crowder's electrical and instrumentation department for the past nine years as the Electrical Operations Managers. The department has continued to grow in revenues and services provided while under his leadership. Graduating with a degree in Mechanical Engineering, he is also particularly skilled in the electrical and equipment aspects of construction work bringing a unique combination of technical and "hands-on" expertise. He has over 15 years of water and wastewater treatment electrical experience. Greg's knowledge and experience has allowed him to work with engineers and owners to optimize and troubleshoot the implementation of electrical and instrumentation aspects of a project.

Education

- B.S./1993/Mechanical Engineering/University of Florida

Professional Development

- Professional Engineer – State of Florida
- Electrical Contractor – Florida, North Carolina, Georgia
- HVAC, Plumbing Contractor – North Carolina
- Public Utilities Contractor – North Carolina, South Carolina
- General Contractor – North Carolina

Representative Project Experience

Electrical Operations Manager

- Accountable for over \$40 million in projects.
- Consistently increased Revenues over 8 years

Project Manager

- Cary/Apex Water Treatment Plant Expansion Cary, NC \$48 million
- Frenches Creek Waste Water Treatment Plant, Camp Lejeune, NC \$40 million

Project Engineer

- Base Wide Waste Treatment Upgrade Phase 1 Camp Lejeune, NC \$14 million

Areas of Expertise

- Electrical aspects of water/wastewater facilities
- Safety requirements.
- Innovative / Solutions Oriented
- Design/Build
- Self motivated.
- Excellent communicator.
- Team oriented.

JAMES GASKINS

Project Superintendent

Summary of Professional Experience

James has 30 years experience in the construction of water and wastewater facilities, with an outstanding record for building projects of all sizes, but specializing in larger facilities. With a career that started in Virginia, he has completed projects throughout the US. Thoughtful and thorough, he is a solid leader and team builder with a genuine enjoyment of the construction process and an intrigue for new design and state of the art equipment. James enjoys the challenge of new projects and complex logistics and is confident in his ability. Focused on quality, safety, and schedule, he is able to remain highly involved in details without losing sight of the big picture.

Professional Development

- Primavera Scheduling
- 7 Habits of Highly Effective People Training

Representative Project Experience

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| • New MUD District
City of Houston, TX | \$10 million |
| • Fredricksburg WWTP Upgrade
City of Fredricksburg, VA | \$15 million |
| • Woodbridge WWTP Upgrade
City of Woodbridge, VA | \$25 million |
| • Laurel WWTP Process Plant
City of Laurel, MD | \$4.5 million |
| • Medio Creek WRC Expansion
San Antonio Water System, San Antonio, TX | \$29 million |
| • Pflugerville Central WWTP
City of Pflugerville, TX | \$8.5 million |
| • Lake LBJ WWTP Replacement
Lake LBJ MUD, Horseshoe Bay, TX | \$9 million |
| • Wastewater Rehabilitation
City of Rosenberg, TX | \$3.4 million |
| • Almeda Sims West Lift Station
City of Houston, TX | \$1 million |
| • 69 th Street WWTP Improvements
City of Houston, TX | \$5.4 million |

Areas of Expertise

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|--|---|
| • Safety – Coordinate and monitor craft compliance with all safety requirements. | • Coordination of subcontractors and vendors. |
| • Management Style – Solid leader with focus on quality, safety, and schedule. | • Self motivated. |
| | • Excellent communicator. |
| | • Team oriented. |

EMMETT REYNOLDS

General Superintendent

Summary of Professional Experience

Emmett has over twenty years of water and wastewater treatment construction experience with proven success in managing multiple projects and hundreds of employees. He has effectively implemented safety programs and quality control procedures. His ability to communicate and motivate others has impacted the performance of Crowder's superintendents, foremen and field personnel.

As Crowder's General Superintendent, Emmett has provided guidance on water and wastewater projects totaling in the hundreds of millions of dollars. He focuses on developing skills in project superintendents and foremen, participates in job reviews for quality, budget, safety and schedule control and he implements creative problem-solving techniques to reduce risk and improve performance.

Education

- Cement Masons Apprenticeship Training
Dayton, OH 1973-1977
- Associated General Contractor's Supervisory Training Program
Dayton, OH 1985-1990

Professional Development

- Primavera Scheduling
- 7 Habits of Highly Effective People Training

Representative Project Experience

- Gilder Creek Wastewater Treatment Plant
Greenville, SC
- Mallard Creek WWTP
Charlotte, NC
- Lee Hall/Harwood Mills WTP
Newport News, VA
- Roanoke WWTP
Roanoke, VA
- French Creek WWTP
Camp Lejeune, NC
- Nansemond Treatment Plant Expansion,
Virginia
- Cherry Point Wastewater Treatment Plant
Havelock, NC

Areas of Expertise

- Safety – Coordinate and monitor compliance with all safety requirements.
- Problem solver – takes initiative to address issues proactively and brings to swift resolution.
- Team oriented.
- Leadership – develops skills, provides guidance, and recognizes accomplishments of project superintendents and foremen.
- Self motivated.
- Excellent communicator.

FREDERICK T. PRIBBLE, PE

Managing Principal

Summary of Professional Experience

- 20 years with the firm
- 34 years of experience
- Principal
- Mr. Pribble has extensive experience in the management and administration of complex civil and environmental planning/design projects throughout the Commonwealth of Virginia. Projects have included major water and wastewater studies and Preliminary Engineering Reports, water and wastewater facility design and rehabilitation, rate studies, site development, and recreational facilities.

Education

- B.S./1973/Civil Engineering/Virginia Tech

Professional Registration(s)

- Professional Engineer/1977/Virginia

Representative Project Experience

- **Annual Contract, Prince Edward County, VA:** Managing Principal of projects including industrial park design, water system improvements, reservoir design, and government facility site planning projects.
- **Nelson County Service Authority (NCSA) Black Creek Water Treatment Plant and Impoundment, Lovingston, VA:** Managing Principal for the permitting and design of a new water treatment plant and an earthen impoundment on Black Creek for a 25 million gallon municipal raw water source.
- **Coyner Springs Water Treatment Plant, Waynesboro, VA:** Managing Principal for the design and bidding of a new 6 MGD membrane water treatment plant. Design included the building facility, piping, crane system, pumps, etc. Project included upgrade of several pump stations and pipelines.
- **Water Treatment Plant, Phase I Improvements – Preliminary Engineering Report and Final Design, Town of Clifton Forge, VA:** Managing Principal for the Preliminary Engineering Report for Phase I improvements to the Town's water treatment plant. The project included design and preparation of bidding documents, construction phase services to implement the improvements.
- **Computer Modeling, Calibration, and Pump Station Design, Blacksburg, VA:** Managing Principal for the computer modeling and calibration of the Town of Blacksburg's 3.2 million gallon per day water distribution system.
- **Water Pump Station, Powhatan County, VA:** Managing Principal for the development of construction documents, assisting Powhatan County with construction administration services, and providing water booster station start-up and training.
- **Washington County Service Authority – Middle Fork Raw Water Intake, Washington County, VA:** Managing Principal for the preliminary engineering, design, bidding, and construction phase services for the new 11 MGD raw water intake on the Middle Fork of the Holston River.
- **Washington County Service Authority – Raw Water Intake Permits, South, and Middle Forks of the Holston River, Washington County, VA:** Managing Principal for the preliminary engineering and permit application for the existing intake on the Middle Fork and the proposed intake on the South Fork, including a request to increase withdrawals from 4.6 MGD to 12.0

MGD.

- **Washington County Service Authority – Raw Water Intake Permits, South, and Middle Forks of the Holston River, Washington County, VA:** Managing Principal for the study of water production capabilities to meet future demands, with particular emphasis on improvements needed at the existing water filtration plant on the Middle Fork Holston River, resulting in a master plan for this facility.
- **Eastern Route 60 Force Main and Pump Station Design Powhatan County, VA:** Managing Principal for the development of the preliminary designs for the force main and water lines near the Flat Rock area. Preliminary designs for the pump station have also been conducted.
- **Three Chopt Road 24-Inch Water Main, Henrico County, VA:** Managing Principal for the design of approximately 3,290 linear feet of 24-inch water main along heavily traveled Three Chopt Road from Pump Road west to Westgate Parkway, across Lauderdale Drive and north to Broad Street.
- **Pouncey Tract 30" Water Main Improvements, Henrico County, VA:** Managing Principal for the design of 11,000 linear feet of 24 and 30-inch water main along Pump Road, Pouncey Tract Road, and Shady Grove Road including a routing study and easement plat preparation.
- **Water Storage Tank Projects, Various Locations, VA:** Managing Principal for over 35 water storage tank design projects throughout the state of Virginia.

**Areas of
Expertise**

- Comprehensive water and sewer studies
- Utility Master Planning
- Water distribution system design
- Water and sewer rehabilitation projects
- Funding Alternatives
- Preliminary Engineering Reports
- Sewage collection system design
- Water and sewer rate analysis
- Feasibility analysis
- Industrial Park Design
- TEA 21 Enhancement Projects
- Water Resource Development

JEFFREY N. LIGHTHISER, PE

Project Executive/Executive Vice President

Summary of Professional Experience

- 31 years with the firm
- 31 years of engineering experience
- Extensive experience with regulatory agencies
- Mr. Lighthiser is a Managing Principal in the firm with extensive experience as a designer and project director for site planning and engineering projects. Mr. Lighthiser's experience includes water and wastewater utility design; street and drainage design; site planning and engineering; management of multi-disciplined project teams; construction administration; and coordination with clients.

Education

- B.S./1977/Civil Engineering/Virginia Polytechnic Institute and State University

Professional Registration(s)

- Professional Engineer/1981/Virginia, No. 12559

Representative Project Experience

- **Prince Edward County Courthouse, Prince Edward County, VA:** Managing Principal for the site and utility design of courthouse addition.
- **Prince Edward County Industrial Park, Prince Edward County, VA:** Managing Principal for the construction of a 100,000-square-foot building for metal shelving manufacturing facility, a 15,000-square-foot agricultural services building, and the overall grading design, erosion control design and resident inspection for the grading of two lots totaling approximately 17 acres.
- **Department of General Services State Capitol Renovation, Richmond, VA:** Principal-in-Charge for civil engineering services as part of the design team for the \$83.1 Million renovation of this historic structure. Work includes surveying, geotechnical study, hydrogeologic study, civil engineering/site design for renovation and expansion included a new underground visitor's center, and close coordination with other team members.
- **Virginia Commonwealth University Term Contract, Richmond, VA:** Principal-in-Charge of geotechnical, environmental, civil, surveying, and GIS services to the University through an annual contract. Projects completed or in design/under construction include School of Business and School of Engineering – geotechnical, surveying, subsurface utility investigation, and environmental services; VCU Heath System School of Nursing – geotechnical, EIR; Shafer Court Dining Center - surveying, subsurface utility investigation, environmental impact report, geotechnical study, and construction testing and inspection services; Old Life Sciences Building - demolition plan and construction administration; various geotechnical Investigations; Aerial Photography/GIS Mapping for MVC Campus; Environmental Impact Reports; SPCC Plans; Phase I Environmental Site Assessments; Phase II Environmental Site Assessments; Asbestos and Lead-based Paint Assessments; Topographic and Boundary Surveys; Parking Lot / Driveway Designs

Areas of Expertise

- Site Planning and Engineering
- Project Master Planning
- Stormwater Management
- Feasibility Studies
- Infrastructure Design

JEFFREY P. KAPINOS, PE

Richmond Utilities Team Leader

Summary of Professional Experience

- 8 years with the firm
- 19 years of experience
- Mr. Kapinos currently serves as a Project Manager responsible for the design and engineering of both water and wastewater projects for municipal clients. He has extensive experience in all facets of civil engineering including design and project management, contractor bid and award, project coordination with clients, and regulatory agency approvals.

Education

- B.S./1986/Civil Engineering/Virginia Polytechnic Institute and State University
- M.S./1992/Civil Engineering/Virginia Polytechnic Institute and State University

Professional Registration(s)

- Professional Engineer/1991/Virginia, No. 021876
- Virginia Waterworks Operators License, Class III, No. 001068

Representative Project Experience

- **Annual Contract, Prince Edward County, VA:** Client Manager for projects including industrial park design, water system improvements, reservoir design, and government facility site planning projects.
- **Route 60 Water and Force Main, Powhatan County, VA:** Project Manager for utilities engineering design and construction administration for 20,000 LF of watermain and sanitary sewer. This project also included the design and construction of a 0.5 MG elevated pedestal spheroid water storage tank.
- **Water Pump Station, Powhatan County, VA:** Client Manager for the initial water distribution analysis, the booster pump station control scheme development, the construction administration, and the start up and training.
- **Nelson County Service Authority (NCSA) Black Creek Water Treatment Plant and Impoundment, Lovingson, VA:** Project Manager for the permitting and design of a new water treatment plant and an earthen impoundment on Black Creek for a 25 million gallon municipal raw water source.
- **Various Water Storage Tank Projects, Statewide, VA:** Client Manager/Project Manager for numerous water storage tank studies, designs, and/or construction administration throughout the state of Virginia.
- **Annual Contract, King George County, VA:** Overall Client Manager for all King George County water and sewer design projects.

Areas of Expertise

- Preliminary Engineering Reports
- Comprehensive Water and Sewer Studies
- Utility Master Planning
- Odor and Corrosion Evaluations
- Corrective Action Plans
- Water and Sewer System Design
- Groundwater Distribution and Treatment
- Water Storage Tanks

MICHAEL A. LARSON, PE

Water Intake & Treatment Plant Design Project Manager

Summary of Professional Experience

- 9 years with the firm
- 11 years of experience
- Senior Project Manager
- Mr. Larson serves as the Utilities Team Leader in the Charlottesville office, and is responsible for a variety of water and wastewater projects. His responsibilities include designing treatment plants, pump stations, water and sewer mains and other infrastructure, computer modeling of water and sewer systems, preliminary report preparation, specification editing and cost estimation.

Education

- B.S./1996/Civil Engineering/Clarkson University
- M.S./2003/Civil and Environmental Engineering/Virginia Tech

Professional Registration(s)

- Professional Engineer/2001/Virginia

Representative Project Experience

- **Nelson County Service Authority (NCSA) Black Creek Water Treatment Plant and Impoundment, Lovingson, VA:** Client Manager for the permitting and design of a new water treatment plant and an earthen impoundment on Black Creek for a 25 million gallon municipal raw water source.
- **Coyner Springs Water Treatment Plant, Waynesboro, VA:** Client Manager for the design and bidding of a new 6 MGD membrane water treatment plant. Design included the building facility, piping, crane system, pumps, etc. Project included upgrade of several pump stations and pipelines.
- **Water System Action Plan, City of Waynesboro, VA:** Project Manager responsible for the design of numerous large projects to be implemented as part of the Action Plan including the 6.0 MGD Coyner Springs Water Treatment Plan (membrane filtration), Jefferson Wells Upgrade, Jefferson Wells Raw Water Main, and Water Distribution SCADA system.
- **Annual Contract, City of Charlottesville Department of Public Utilities, Charlottesville, VA:** Project Manager for various wastewater projects under the term contract.
- **Annual Contract, Nelson County Service Authority:** Project Manager for various water and sewer annual contract projects for the Authority since 2001.
- **Stadium Road Sewer Design Phase II and III, Charlottesville, VA:** Project Manager for the review of flow records from I/I studies, surveying, mapping, geotechnical services for the design of approximately 8,200 LF of 36-inch diameter trunk sewer.

Areas of Expertise

- Water and Sewer Pipeline Design
- Water/Wastewater Treatment Design
- Water and Sewer Computer Modeling
- Preliminary Engineering Studies
- Cost Estimating
- Utility Rate Studies
- Pump Station Design

ANNE C. URENDA, PE

Pipeline, Storage Tank, & Pump Station Design Project Manager

Summary of Professional Experience

- 11 years of water and wastewater design experience
- 2 years with the firm
- Ms. Urenda serves as a Project Engineer in the Utilities Engineering Division of the firm, responsible for a variety of water-related projects. Her responsibilities include preliminary engineering report preparation, water main design, specification editing, and cost estimation.

Education

- B.S./1986/Civil Engineering/ University of Colorado

Professional Registration(s)

- Professional Engineer/1996/Virginia, No. 030242

Representative Project Experience

- **Sandy River Reservoir Preliminary Engineering Report, Prince Edward County, VA:** Performed an evaluation of the water supply needs for Prince Edward County and the Town of Farmville, and developed a preliminary plan and cost estimate for a raw water intake structure at the Sandy River Reservoir.
- **Water Main Extension to Hampden-Sydney College, Prince Edward County, VA.** Responsible for the design of 16,000 LF of 12-inch diameter water main from the Hampden-Sydney College elevated water storage tank to a new County development. The project included close coordination with the Virginia Department of Transportation for future roadway improvements along the route and multiple special crossings of existing roadways which required boring and jacking.
- **Various Water Storage Tank Projects, Statewide, VA:** Project Manager/Project Engineer for numerous water storage tank studies, designs, and/or construction administration throughout the state of Virginia.
- **River Road Water Pumping Station, Goochland County, VA:** Responsible for the design of a 900 gpm water booster station. Project included three constant speed pumping units and a 10,000 gallon hydro-pneumatic tank.
- **Centerville Water Pumping Station, Goochland County, VA:** Responsible for the design of a 2,500 gpm water pumping station. The design included three 75 HP pumping units with variable speed units.
- **Route 250 Water Main, Tuckahoe Creek Service District, Goochland County, VA:** Responsible for the design of 4,500 LF of 16-inch diameter water transmission main.
- **Petersburg Training Facility Water Main Extension, Prince George County, VA:** Design and specifications for 6,000 feet of 8-inch and 6-inch diameter water main to provide water service to the Petersburg Training Facility and Juvenile Detention Facility.

Areas of Expertise

- Water and Sewer Pipeline Design
- Pump Station Design
- Water Tank Design
- Preliminary Engineering Studies

SHERYL S. STEPHENS

Funding and Grant Assistance

Summary of Professional Experience

- 8 years with the firm
- 24 years of experience
- 16 years of experience working with local governments and state agencies
- Ms. Stephens assists clients with loan/grant applications, identifying loan and grant opportunities, and preparing applications for funding. She prepares water and wastewater rate studies for local governments, and assists our project managers during development of Preliminary Engineering Reports (PER's) as well as during construction.

Education

- B.A./1980/Mary Washington College
- Masters in Urban and Regional Planning/1990/University of Virginia

Professional Certification

- National Development Council – Certified Finance Professional

Professional Activity

- Southeast Rural Community Assistance Project, Inc. (SER-CAP) – Loan Review Committee

Representative Project Experience

- **Prince Edward Regional Water Supply Plan, Prince Edward County, VA:** Project coordinator assisting to prepare a water supply plan that will investigate the County's current and projected water supply needs and ability to provide adequate supply through current sources.
- **Virginia's Heartland Regional Industrial Park, Prince Edward, VA:** Grant applications, coordination and administration of grant programs, and management of all funding sources
- **Water Treatment Plant, Phase I Improvements – Preliminary Engineering Report and Final Design, Town of Clifton Forge, VA:** Grant application for VDH low interest rate funding for the project
- **Nelson County Service Authority, Nelson County, VA:** Cost of Service Rate Study
- **Ordinance and Fees, Powhatan County, VA:** Project includes the development of water and sewer rates, policies, and procedures and a water and sewer ordinance.
- **Town of Farmville, VA:** Prepared grant application for grant assistance from the Virginia Department of Health to pay a portion of the Town's share of the Sandy River Reservoir PER and Feasibility Study.

Areas of Expertise

- Strong financial analysis skills
- Grants administration experience
- Experience with Water and Wastewater Revolving Loan Funds
- Experience with VRA's Bond Financing Programs
- Working knowledge of Rural Development infrastructure lending
- Familiarity with the CDBG Program

LEE O. WHITE, LS

Director of Surveying

Summary of Professional Experience

- 17 years with the firm
- 29 years overall experience
- As Director of Surveying for Draper Aden Associates, Mr. White is responsible for the coordination of surveying services in all Draper Aden Associates' offices. Mr. White's surveying experience encompasses boundary and topographic surveys, hydrographic surveys, design and route surveys, stake-out for numerous major construction projects, geodetic surveys, cadastral surveys, and surveys for wetland delineations. He has worked with a wide range of clients including private and public utility companies, state and local municipalities, land development companies, real estate firms, law firms, the Corps of Engineers, and architectural firms.

Education

- Auburn University (Forest Management)
- Southern Union State Junior College/(General Curriculum)

Continuing Education

- J. Sargeant Reynolds - 1 Year Hydrology and Road Drainage
- Hazardous Waste Safety and Health Training/Medical College of Virginia

Professional Registration(s)

- Certified Land Surveyor/1988/Virginia, No. 1656
- Professional Land Surveyor/1989/Alabama, No. 17006

Representative Project Experience

- **Annual Contract, Prince Edward County, VA:** Director of Surveying for projects including industrial park design and water system improvements.
- **Route 60 Water and Force Main, Powhatan County, VA:** Director of Surveying for the design and construction administration for 20,000 LF of watermain and sanitary sewer.
- **Water Pump Station, Powhatan County, VA:** Director of Surveying for the design of a booster pump station.
- **Black Creek Water Supply and Impoundment, Nelson County, VA.** Director of Surveying for a new water treatment plant and an earthen impoundment on Black Creek for a 25 million gallon municipal raw water source.
- **Annual Contract, Henrico County, VA:** Director of Surveying for all Draper Aden Associates Henrico County projects performed under current and previous utilities engineering contract.
- **Water Storage Tank Projects, Various Locations, VA:** Director of Surveying for numerous water storage tank design projects throughout the state of Virginia.

Areas of Expertise

- Boundary Surveys
- Topographic Surveys
- Hydrographic Surveys
- Design and Route Surveys
- Stake-Out
- Geodetic Surveys
- Cadastral Surveys

THOMAS W. INGRAM, LSIT

Survey Team Leader

Summary of Professional Experience

- 19 years of experience
- 17 years with firm
- Mr. Ingram serves as Survey Team Leader with surveying experience that includes construction stake-out, geodetic control surveying, boundary and topographic surveying, “as-built” surveys for the United States Army Corps of Engineers, as well as utility locations and wetlands delineation.

Education

- Civil Engineering Course Work/Old Dominion University

Professional Registration(s)

- LSIT/2004/Virginia

Representative Project Experience

- **Annual Contract, Prince Edward County, VA:** Survey Team Leader for projects including industrial park design and water system improvements.
- **Route 60 Water and Force Main, Powhatan County, VA:** Survey Team Leader for the associated surveying services related to the utilities engineering design and construction administration.
- **Water Pump Station, Powhatan County, VA:** Survey Team Leader for the design of a booster pump station.
- **Black Creek Water Supply and Impoundment, Nelson County, VA.** Survey Team Leader for a new water treatment plant and an earthen impoundment on Black Creek for a 25 million gallon municipal raw water source.
- **Annual Contract, Henrico County, VA:** Survey Team Leader for all Draper Aden Associates Henrico County projects performed under current and previous utilities engineering contract.
- **Water Storage Tank Projects, Various Locations, VA:** Survey Project manager for numerous water storage tank design projects throughout the state of Virginia
- **Rate Analysis, City Of Waynesboro, VA:** Provided surveying services for a rate analysis that encompassed approximately 8,000 water and sewer customers.
- **Water and Sewer Rate Study and Facility Fee Analysis, Town Of Smithfield, VA:** Provided surveying services for a water and sewer facility fee analysis for the Town of Smithfield as well as a water and sewer user rate study.

Areas of Expertise

- CADD Technician
- Subsurface Utility Engineering
- Topographic Surveys
- GPS Surveys
- GIS Deliverables

WILLIAM C. YOUNG, JR., LS

Survey Project Manager/GPS Administrator

Summary of Professional Experience

- 11 years with the firm
- 21 years overall experience
- Mr. Young's surveying experience encompasses boundary and topographic surveys, design and route surveys, GPS, stakeout for construction projects, geodetic surveys, underground utility surveys, and wetland surveys.

Education

- B.S./1985/Environmental Science/The Evergreen State College

Continuing Education

- Land Surveying Course Work, Hydrology, Road Drainage and Erosion and Sediment Control, J. Sargeant Reynolds Community College

Professional Registration(s)

- Land Surveyor/1996/Virginia, No. 2046

Representative Project Experience

- **Route 60 Water and Force Main, Powhatan County, VA:** Survey Quality Control for the design and construction administration for 20,000 LF of watermain and sanitary sewer.
- **Three Chopt Road 30-Inch Water Main, Henrico County, VA:** Survey Project Manager responsible for the production of easement plates related to the design of approximately 8,300 linear feet of 30-inch water main along heavily traveled Three Chopt Road from Thamesford Way east to Gaskins Road.
- **Pouncey Tract 30-Inch Water Main Improvements, Henrico County, VA:** Survey Project Manager responsible for the production of easement plates related to the design of approximately 11,000 linear feet of 24 and 30-inch water main along Pump Road, Pouncey Tract Road, and Shady Grove Road.
- **King William Boundary Survey, King William County, VA:** Survey Project Manager for the development of a complex land acquisition plan for over 3,000 acres. Over 100 plats were prepared to the Waterworks' strict survey and GIS standards. While producing these plats, Draper Aden Associates worked closely with the appraiser, attorney and negotiators to revise plats, mark boundaries and produce special map products as needed.
- **Newport News Wetlands Mitigation Acquisition Parcels, Newport News, VA:** Survey Project Manager for the acquisition surveying for large parcels of land located in several counties in the King William Watershed Basin. This project includes performing geodetic controls for aerial mapping and construction, boundary surveys, acquisition surveys and record plats.

Areas of Expertise

- GPS
- Boundary
- Topographic
- Design and Route
- Stakeout
- Geodetic

KENNETH M. PIAZZA, JR., PE

Geotechnical Engineering

Summary of Professional Experience

- 14 years with the firm
- 17 years of experience
- Senior Program Manager
- As Director of Geotechnical Engineering and Construction Management, Mr. Piazza is responsible for the performance of subsurface explorations, field and laboratory test programs, data reduction and analysis and design recommendations, technical presentations and project management. In addition, Mr. Piazza oversees all QA/QC, construction inspection, and construction management projects.

Education

- B.S./1990/Civil and Environmental Engineering/Clarkson University

Continuing Education

- VDOT Field Certification - Concrete Radiological Health and Safety Training
- OSHA 24 hr Safety Training

Professional Registration(s)

- Professional Engineer/1997/Virginia

Representative Project Experience

- **Blackcreek Water Plant and Reservoir, Nelson County, VA:** Provided impoundment construction quality control services.
- **Coyner Springs Water Treatment Plant, Waynesboro, VA:** Provided geotechnical investigation services for the design of a new 6 MGD membrane water treatment plant.
- **Annual Contract, Henrico County, VA:** Director of geotechnical engineering and construction testing for various Henrico County Utility Projects.
- **Prince George County Water Storage Tank, Prince George, VA:** Geotechnical / Soils Engineer for subsurface soils evaluation by method of drilling to obtain bulk samples, split spoon samples, and documentation to assist in reporting. Prepared geotechnical evaluation reports, based on subsurface exploration, for the tank foundation including estimated bearing capacity, total settlement and differential settlement.
- **Dutoy Creek Wastewater Treatment Plant, Powhatan, VA:** Team leader for construction testing and inspection services for this new wastewater treatment facility.
- **Rockfish Valley / 151 Corridor Water and Sewer, Nelson County, VA:** Performed soils investigation and, construction management for a Preliminary Engineering Report for the Rockfish Sewer line.
- **Prince George County Government Center, Prince George County, VA:** Performed soils and geotechnical studies for a 72,000 SF County Administration building.

Areas of Expertise

- Soils Laboratory Management
- Construction Management
- Foundation Analyses
- Concrete Construction & Testing
- Hydraulics & Hydrology
- Pavement Analysis

P. MATTHEW OVERTON, PWD

Project Biologist

Summary of Professional Experience

- 12 years with the firm
- 16 years of experience
- Ecological Services Team Leader
- Mr. Overton is responsible for conducting a wide range of environmental studies, including site assessments, wetlands delineation/mitigation/ permitting, biological studies, groundwater and stormwater studies and implementation, and well construction. He has extensive experience in Hydrogeology, well construction, soil, groundwater, and stormwater sampling protocols, laboratory data validation, numerical methods of data analysis wetlands delineation mitigation planning, lake/pond management, habitat assessment, wildlife identification and handling.

Education

- B.S./1990/Biology and Chemistry/College of William and Mary
- M.S. /1995/Biology/University of Richmond

Professional Registration(s)

- Professional Wetland Delineator/2005/Virginia, No. 3402000009

Continuing Education

- Fisheries Academy, Fish Tracking Techniques, March 2-6, 1992
- Laboratory QA/QC Workshop, February 1995
- Corps of Engineers, Wetland Permits for Navigable Waters, March 1996
- Virginia Commonwealth University, Taxonomy for Aquatic Macrophytes
- Virginia Commonwealth University, Center for Environmental Studies, Rapid Bioassessment Protocols (RBP) Workshop, July 9-11, 1996

Representative Project Experience

- **Sandy River Trail, Prince Edward County, VA:** Provided wetlands delineation and permitting for Phase I of the Sandy River Trail Project.
- **Blackcreek Water Plant and Reservoir, Nelson County, VA:** Performed permitting and wetlands studies for the associated water plant and reservoir.
- **Route 60 Business Corridor Water & Sewer Study, Powhatan County, VA:** Project Biologist responsible for an environmental site assessment.
- **Annual Contract, Henrico County, VA:** Wetlands Studies for multiple water and sewer design projects.

Areas of Expertise

- Well Construction
- Soil, Groundwater, and Stormwater Sampling Protocols
- Hydrogeology
- Numerical Methods of Data Analysis
- Wetlands Delineation/ Mitigation / Planning

W. CHARLES KREYE, II, PE

Site Planning and Engineering Project Manager

Summary of Professional Experience

- 9 years with the firm
- 9 years experience
- Mr. Kreye is a project manager in the Site Engineering Team. He has extensive experience as a project engineer for site designs of various commercial, institutional, and municipal projects. His design experience includes site planning; drainage, sewer, and water system design; erosion control plans; stormwater management facilities; and Best Management Practice Facilities (BMPs) for Chesapeake Bay Act compliance.

Education

- B.S. /1998/ Civil Engineering/Virginia Polytechnic Institute

Professional Registration(s)

- Professional Engineer/2005/Virginia, No. 041396

Representative Project Experience

- **Sandy River Reservoir Safe Yield Analysis, Prince Edward County, VA:** Site planning services for a capacity analysis, or safe yield analysis, for the reservoir.
- **Prince Edward County Industrial Park, Prince Edward County, VA:** Provided site planning services for the construction of a 100,000-square-foot building for metal shelving manufacturing facility, a 15,000-square-foot agricultural services building, and the overall grading design, erosion control design and resident inspection for the grading of two lots totaling approximately 17 acres.
- **Prince Edward County Courthouse, Prince Edward County, VA:** Site Plan Engineer for the site and utility design of courthouse addition.
- **Sandy River Reservoir Recreational Improvements, Prince Edward County, VA:** Site Plan Engineer for a 0.5 access mile roadway and 60-space car/trailer parking facility serving the fishing pier and boat ramp on the Sandy River Reservoir.
- **Black Creek Water Supply and Impoundment Study, Nelson County, VA.** Project Engineer for engineering design.
- **Various Water Storage Tank Projects, Statewide, VA:** Provided site planning and/of quality control services for numerous water storage tank designs throughout the state of Virginia.
- **Town of Amherst, Rutledge Creek Wastewater Treatment Plant Upgrade, Amherst, VA:** Project Manager for site layout and design of sitework associated with the WWTP upgrade.
- **Powhatan Dutoy Creek WWTP, Powhatan County, VA:** Project Manager for site layout and design of sitework associated with the new WWTP.
- **Dutoy Creek WWTP-Pump Station #3, Powhatan County, VA:** Project Manager for site layout and design of sitework associated with the off-site sanitary pump station.

Areas of Expertise

- Site Engineering
- Infrastructure Design
- Project Master Planning
- Stormwater Management

LESLIE S. JETER, PE

Structural Engineer

Summary of Professional Experience

- 4 years with the firm
- 22 years of experience
- Program Manager
- Mr. Jeter has over 22 years of experience in analysis and design of structural systems for commercial and institutional buildings as well as a broad background in highway and railroad bridges and structures. His work has involved the alteration, addition to existing buildings, and new construction. Specific areas of concentration are design of structural steel including LRFD methods, masonry walls (both reinforced and unreinforced), reinforced concrete, light-gage cold-formed steel, structural wood, shallow foundations and building review and evaluation.

Education

- B.S./1985/Civil Engineering/Virginia Tech
- Professional Engineer/1991/Virginia

Professional Registration(s)

Representative Project Experience

- **Dutoy Creek Wastewater Treatment Plant, Powhatan County, VA:** Structural Engineer for the design and construction of a new 250,000 gpd WWTP.
- **Rutledge Creek Wastewater Treatment Plant, Amherst, VA:** Structural Engineer for the design of a 200,000 gpd upgrade.
- **Dahlgren Wastewater Treatment Plant, King George County, VA:** Structural Engineer for the upgrades to an existing 0.325 million gallons per day (MGD) Wastewater Treatment Facility to provide a full 1.0 MGD of treatment capacity at this facility to meet the future needs of the Dahlgren area.
- **Austin Run Gravity Sewer Pump Station, County of Stafford, VA:** Structural Engineer for the design of a 30 MGD screw pump station at the Aquia WWTP.
- **Coyner Springs Water Treatment Plant, Waynesboro, VA:** Provided structural design for a new 6 MGD membrane water treatment plant. Design included the building facility, piping, crane system, pumps, etc. Project included upgrade of several pump stations and pipelines.
- **District Home Creek Trunk Sewer, City of Waynesboro, VA:** Structural engineering services for a 3,200 gpm pump station.
- **Louisa Town Hall, Louisa, VA:** Structural engineering for adaptive re-use of 80+ year-old building in downtown Louisa, using historic tax credits, conversion of old school building to public meeting space and office spaces.
- **Richmond International Airport, Central Plant and Warehouse on the Terminal Addition, Richmond, VA:** Structural engineer for the expansion of the existing terminal.

Areas of Expertise

- LRFD Steel Design
- Masonry Walls
- Reinforced Concrete
- Light-gage Cold-formed Steel
- Structural Wood
- Shallow Foundations
- Building Review and Evaluation.