

Resume

Charles R. Walter, P.G.
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Experience

Water Resource Cooperative (WRC)

General Manager

2016-Current

WRC provides boutique water resource services for local governments, state agencies, industry and property owners. WRC is an appointed consultant to the USEPA, Water Infrastructure and Resiliency Finance Center <https://www.epa.gov/waterfinancecenter> to report on "One Water" fiscal strategies for future USEPA fiscal planning. The WRC team provides insights to the Alliance for Water Stewardship (AWS) and provides unique opportunities for Public, Private, Partnerships (3P) in capital investments in land, infrastructure, water resources, equipment and management activities to reduce cost and create sustainable cashflow for the long-term benefit of investors and ecosystems. We provide water supply planning and permitting; geotechnical and hydrologic data collection and interpretation; water, wastewater, stormwater treatment plant operational planning; SCADA Consultations, assessment methods and revenue collection and bond/fiscal reporting. We also provide services related to data interpretation and product information services for large agricultural interests, product manufactures, operational service providers and irrigation districts.

Sarasota County, City of Sarasota

Director/Sr. Manager, Utilities and Public Works

2000-2005, 2018-Retired 9/30/19

Service Area Population:	460,000
Area:	725 sq mi
Form of Governance:	City/County Partnership: Manager/Council
Annual Budget:	\$250,000,000/\$1,150,000,000
Staff:	1,370/2,300

I returned to Sarasota as a Director in the Utilities Department to create detailed Plans & Specifications and develop a funding stream for major capital initiatives with resources from the \$20,800,000,000 Deep Water Horizon Trust fund (RESTORE Act). The projects align were the latest phases in the Dona/Roberts Bay Restoration. My team developed the raw water plan in the early 2000s, http://www.sarasota.wateratlas.usf.edu/upload/documents/500_DONA_BAY_WATERSHED_MANAGEMENT_PLAN_SCOPE_OF_WORK.pdf

External Sources of funds for this project implementation over the years has included:

Sarasota County Utility Bonds: \$150,000,000 (total)

Southwest Florida Water Management District: \$26,000,000

State of Florida Direct appropriations: \$17,000,000

United States Department of The Interior; Federal Emergency Management Agency

The latest funding requests we prepared was for 3 yrs, \$25,000,000 CIP: 54,000 acre raw water reservoir and outfall modifications, Material Management Plans with Solid Waste for 2,200,000 cy; 20-yr fill and cover support, water supply Aquifer Storage and Recover (ASR) well design and pilot testing and 150 acre oligohaline ecosystem restoration.

I had a unique relationship with the respective City and County boards as a leader in related City and County Departments. Before retiring, we implemented a succession plan that transitioned my role from the County Utilities Division into the Public Works Division of the County for services in both the City and County. My experience in budgeting and staff management in local governments was sought out to create a new partnership relationship with the City and County along with federal and private sector development organizations.

I provided comprehensive leadership for the 330,000 utility accounts to include budget formulation, debt service, engineering services, operations and maintenance staff of 105 FTEs. I routinely meet with staff and residents in the field to discuss issues. I also supported special interest groups providing technical support for controversial issues related to water supply, water quality, flood protection and watershed management.

My overall duties and responsibilities were similar to those outlined with the City of Tampa, although more technical in nature. While I was with the Sarasota in 2000-2005 I was instrumental in developing emergency information sources and a County-wide Hydrologic and Hydrologic (H & H) model and then created development policies and permitting procedures in the early 2000s. I reported to the County Manager and Board of County Commissioners and City of Sarasota Manager and City Council, press and Administrations in water related finance and budgeting, design, planning, construction and operations and maintenance in both municipalities. I'm particularly skilled at coordinating large-scale water resource infrastructure efforts with Cities, Counties and the Florida Department of Transportation. My public reputation and skills were needed to investigate complex technical issues of local concern (red tide and blue-green algae) and presenting issues in context with wholistic community outcomes. I was assigned as the National Incident Management System (NIMS) Director of Operations Commander (DOC) during water/hurricane related events (112 pieces heavy equipment, 210 medium duty trucks, marine, air operations and divers, 140 generators for wastewater lift stations).

South Florida Water Management District (SFWMD)/Central and Southern Flood Control District

Regional Administrator (Orange, Polk, Osceola Counties)

2012-2017

Service Area Population:	8,700,000 (1,230,000 Orange, Osceola, Polk)
Area:	7,600 sq mi
Form of Governance:	Governor Appointed Board
Annual Budget:	\$980,000,000
Staff:	1,470

In this role, my team implemented Florida Statutes (FS) 373 and associated Florida Administrative Codes (FAC) for water supply, flood protection, wetland impacts and accounting/audit for landscape scale wetland mitigation banks.

I directed a staff of 22, P.E.s/P.G.s, Technicians and Scientists in Orange, Osceola and Polk Counties to implement FS & FAC and lead staff working on the Central Florida Water Initiative (CFWI), <https://cfwiwater.com/overview.html>. The core mission objectives were working with the public and stakeholders to develop water resource management policies and implement permitting processes for 2030 and 2080 water-year plans for: Water Supply (potable and irrigation water), Water Quality (wastewater and stormwater treatment), Flood Control (stormwater and lake management), and Ecosystem Restoration (wetlands management).

Roles included: FS and FAC statewide rule review committees, reporting to the Governor, Senate President and other local elected officials on topics related to water supply, permit processing and reporting, flood and hurricane preparedness Continuity Of Operations Plans (COOP); customer service, permit application review and special condition writing; leading water related briefings and negotiations with elected officials and Utilities; preparing and presenting Governing Board agenda items; post agenda processing, preparing information for citizen advisory committees; establishing governance for Community Development Districts (CDDs) and Home Owner's Associations (HOAs); Federal Energy Regulatory Commission (FERC) pipeline siting.

The Team's annual workplan includes the review of \$500,000,000 in construction and capital investments requiring detailed engineering design and calculations, plan review, property rights and local subdivision covenants, Right of Way (ROW) Administration, technical review and negotiations for wetland impacts, flood protection and water supply; General activities for coordination with programs and agencies to include state and federal governmental affairs, press relations, Economic Development Councils (EDCs), Expressway Authorities, Special Districts (FL 298) and Airport Authorities.

Applied Sciences Consulting, Inc.

Director

2010-2012

My role was in creating and leading teams of scientists, P.E.s, IT professionals, legal counsel and administrative staff for civil engineering and services related to SCADA, CMMS and other customer information support services. These were flood hazard warning systems that synergistically addressed transportation issues, Alternative Water Supply (AWS), Basin Management Action Plans (BMAPs) and MFLs. Teams developed information management initiatives integrating technical results and business data into planning, design and environmental effects for flood hazard mitigation and response.

My experience was sought out to negotiate with federal agencies for GOERS satellite signal bandwidth so complex environmental data could be integrated into sound community information data and then integrated into business model outputs for economic and community decision makers. My experience in appropriate scaling, federal agency coordination, economic incentives for programs and projects and customer-based planning, design, and field operations are unparalleled. These skills were used to develop AWS investment strategies for Public Works and Utility Departmental programs. This included creation of project budgets, revenue projections and expenditure burn rates for sustainable community outcomes.

City of Tampa, Florida

Director, Stormwater Utility

2005-2010

Service Area Population:	325,000
Area:	115 sq mi
Form of Governance:	Strong Mayor
Annual Budget:	\$945,000,000
Staff:	4,300

I was part of the Senior Executive Team for the City of Tampa that included Stormwater, as peer to Public Works, Water and Wastewater Utilities. Under my direction, staff administered services for 280,000 utility accounts. In addition to being the lead agency in flooding emergency response and recovery, I also served as the Sustainability (Green) officer and advisor to the Mayor, congressional representatives, City Council and the press for flood and hurricane hazard preparation.

The Department had 110 staff in diverse positions. As Director, I provided leadership and conflict resolution for a comprehensive organization that included administration, finance, planning, design, permitting, construction, contracting, maintenance and operations. I developed and administered a \$150 million five-year budget with \$30 million in annual CIP budgets, \$20 million in operations and maintenance. It is important to note that over 50% of the capital revenue was generated from external grants, cooperative agreements, federal and state budget line item appropriations, and other non-ad-valorem sources.

As a department Director, my responsibilities were to create outcomes in:

Administration and Finance

City Council Appearances

Press Relations

Public, Inter-governmental Affairs

Utility Account Data Base Management

Assessment Methodology Development

Assessment Management (billing)

Comprehensive Budget Development

Budget Administration

Bond Administration

Contract Administration for Professional Services, Operations and CIPs

Maintenance and Operations

Staff Training and Development

Computerized Maintenance Management Systems (CMMS) (Maximo and other similar)

Transportation Asset Management

Pavement Condition Information Management

Property Management

Facilities Management
Fleet Management
Contract Maintenance Administration
SCADA- Security System Design and Administration

Planning

Capital Infrastructure Planning
Continuity of Organizational Operations Planning (COOP)
National Incident Management System (NIMS)
Grant Administration
Comprehensive Plan Administration
Growth Management

Engineering Administration

ICPR Modeling and Engineering Staff Leadership
Consultant Scope Preparation
Consultant Administration
Permit Acquisition
Right of Way (ROW) and Easement Permitting and Administration
Author and Interpretation of Permitting Criteria
Defense of Building Codes in Judicial and Quasi-Judicial Hearings
Project Conceptual Design
Pollutant Treatment Systems Design
Impoundment Design

Environmental Regulatory Affairs

Clean Water Act (CWA)
Clean Air Act (CAA)
Endangered Species Act (ESA)
National Pollutant Discharge Eliminations System (NPDES)
Capacity Management Operations Maintenance (CMOM)
Wastewater Incident Reporting (WIR)
Fats Oils and Grease (FOG)/Pretreatment Plans
Total Maximum Daily Loads (TMDL)
Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
Bio-Security Planning
Basin Management Action Plans (BMAP)
FEMA Floodplain Management
National Environmental Policy Act (NEPA)
Minimum Flows and Levels (MFL)
Community Rating System (CRS)
Modeling (MODFLOW, ICPR, SWIMM)
Aquifer Storage and Recovery (ASR)

Surface Water, Stormwater, Coastal Erosion and Navigation
Director, Charlotte County, FL
1996-2000

Service Area Population: 170,000
Area: 850 sq mi
Form of Governance: Manager/Council
Annual Budget: \$600,000,000
Staff: 1,120

I was responsible for the initial development of Capital and Maintenance work plans administered in 27 separate Municipal Services Benefit Units (MSBU) budgets and other special revenue sources. During my tenure, I developed a multi-functional surface water management department, fully funded through fees. Ultimately the Utility staff grew to 45, with 7 professional and engineering personnel and a \$9 million annual budget

The duties and responsibilities in this position were similar to those outlined for the City of Tampa. The Charlotte County Stormwater Utility also had a significant role in dredging, beach and coastal management issues. My responsibilities required a higher level of technical leadership in broader subjects, due to the size of the organization when compared to Sarasota County and City of Tampa. I was also instrumental in developing wetlands and environmental regulations, community consensus, customer service and building staff competencies.

Florida Department of Transportation, Tampa, FL
Operations Manager
1991-1996

Service Area Population: 3,200,000
Area: 4,100 sq mi
Form of Governance: State Agency
Annual Budget: \$10,800,000,000

In this position, I lead technical staff position for the operations and maintenance of wastewater (3 WWTPs), potable water (2 WTPs) and stormwater management systems for the FDOT facilities within a five-county region. The position addressed wetlands, sinkholes, geotechnical issues, issues related to the major Tampa Bay bridges, local bridge scour analysis, soil and groundwater contamination assessment; risk analyses, remediation design and implementation. I was also responsible for 500 acres of wetland mitigation (40 locations), along with numerous coastal management and geotechnical field construction projects. At the time, FDOT and my roles was the lead agency for coordination with local governments and the NPDES program and as the "State Engineer" to coordinate storm damage with the Federal Emergency Management Agency (FEMA). In addition, FDOT was the lead agency in coastal management, Bay and Port Dredging that generally included geotechnical and geologic hazard issues for the extended Tampa Bay region.

Duties and responsibilities included:

Operations

Water Treatment Plants (WTP)
Wastewater Treatment Plants (WWTP)
Stormwater Treatment Systems

Geotechnical

Coastal Structure Design
Soil Systems Design
Sinkhole Remediation
Soils Investigation
Permeability Testing

Engineering Administration

Value Engineering
Risk Evaluation
Emergency Operations
Disaster Planning
Contact Administration
Work Plan Administration

Regulatory Administration

NPDES Administration
USACOE Dredge and Fill
Soil and Groundwater Contamination Assessment and Remediation
Water and Wastewater Permitting
Stormwater Permitting

Professional Involvement

USEPA National Estuary Program Advisory Posts

Charlotte Harbor (Technical Advisory, Management and Policy Committees)
Sarasota Bay (Technical Advisory and Management Committees)
Tampa Bay (Technical Advisory, Management and Policy Committees)

Southwest Florida Water Management District

Alternative Water Supply (AWS) Grants Advisory Committee
Southern Coastal Watershed Technical Advisor
Myakka River Watershed Technical Advisor
Peace River Watershed Technical Advisor

State and Federal Advisory Publications/Posts

USEPA, Water Finance Center, Special Consultant (through July 2020)

Water Research Foundation, "Conventional Drinking Water Treatment of Alternative Water Sources (AWS)" 2016
Florida Senate Bill 536- "Report on Expansion of Beneficial Uses of Reclaimed Water, Stormwater, and Excess Surface water," December 2015.

Florida Department of Environmental Protection (FDEP) Statewide Rule Technical Advisor 2010, 2015

Florida Department of Health and Rehabilitative Services (HRS) Alternative site design considerations for OSDS

United States Army Corps of Engineers (USACOE) Alternative hydrogeomorphology for Florida's coastal wetlands
1995

Florida Department of Environmental Protection (FDEP), National Pollutant Discharge Elimination System (NPDES)
standards and reporting framework.

Memberships

American Public Works Association

Affordable Housing Network

American Water Works Association

American Water Resources Association

Association of Environmental Professionals

Professionals in Emergency Management

Water Environment Federation

Florida Stormwater Association

Florida Association of Water Quality Control

National Algae Association

Urban Land Institute (ULI)

Other Organizations and Affiliations

American Public Works Association

Water Resources Association

Water Research Foundation

American Water Works Association

American Groundwater Association

Federation of Water and the Environment Association

Association of Environmental Professionals

Water Stewardship Alliance (AWS)

Professional Registration

Professional Geologist (PG)

State of Florida

No. 1721

Emergency Management Institute -

Federal Emergency Management Agency (FEMA) -

National Incident Management System (NIMS)

ICS-100, ICS-300, ICS-400, ICS-700

Education

University of Wisconsin
Eau Claire, WI
Bachelor of Science: Geology (Hydrogeology)
Minor: Spatial Mapping (GIS)
Graduate: 1990

University of South Florida
Master's Program
Engineering & Science Management

Contact Information

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Major Projects, Programs, Research and Community Plans

Milwaukee Metropolitan Sewage District (MMSD)

Combined Sewer Overflow (CSO), 32-15" Diameter CSS Diversion Tunnels, 29.5 miles

State of Florida, Department of Health and Rehabilitative Services

State-wide water quality evaluation with focus on OSDS sources in coastal aquifers

State of Florida, Florida Department of Transportation

Gandy Bridge Replacement

Howard Franklin Bridge Rehabilitation

Sunshine Skyway Bridge

Adopt-a-pond

Charlotte County, West Coast Inland Navigation District, ACOE

Stump Pass Inlet Management Plan

Rotunda Rehabilitation

Adopt-a-waterway

Sarasota County

Dona Bay Restoration Project

Celery Fields Flood Protection Project

GOAT, Social media waterway clean-up

USEPA, USACOE, SFWMD

Central and Southern Flood Control Project

Kissimmee River Restoration

Greater Everglades Environmental Restoration (GEER)

Report to Senate President and Governor, SB 536

State of Florida, Department of Environmental Regulation

Central Florida Water Initiative (CFWI) Water Supply Plan

USEPA

Tampa Bay Ecosystem Restoration Plan

Comprehensive nutrient management plan for the Tampa Bay Watershed

City of Tampa

Ybor City, Community Redevelopment Area (CRA)

Design, 10' Diameter, 1,500 lf., flood diversion tunnels

Alliance for Water Stewardship (AWS)

Executive counsel organizational development

Agriculture Water Policy

Water Research Foundation (WRF) (4336)

"Alternative Water Source Requirements for Conventional Drinking Water Treatment"

