



Miami-Dade Water and Sewer Department Capital Improvement Program  
Industry Forum **October 15, 2024**

# WASD Key Capital Improvement Programs

## Consent Decree

To achieve full compliance with the US EPA Clean Water Act

## Water Reset

To address critical needs across water treatment plants & the distribution system

## Pump Station Resilience

To manage the improvement to pump stations, force mains, and gravity lines



## Ocean Outfall Legislation

To comply with State of Florida legislation requiring elimination of ocean outfalls to dispose of treated wastewater

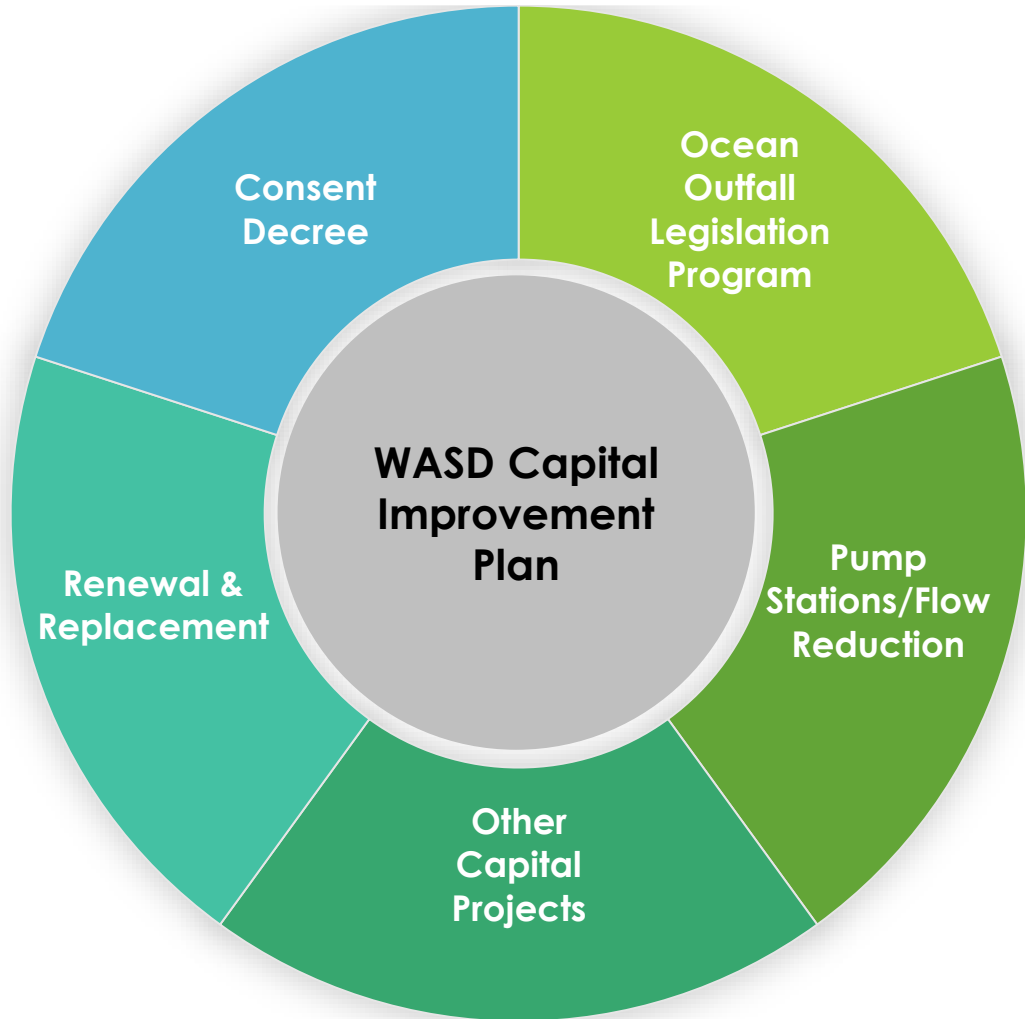
## Connect 2 Protect

To protect Biscayne Bay and the environment by implementing septic to sewer conversions

## Asset Management

To address aging infrastructure through systemic renewal & replacement

# Capital Plan



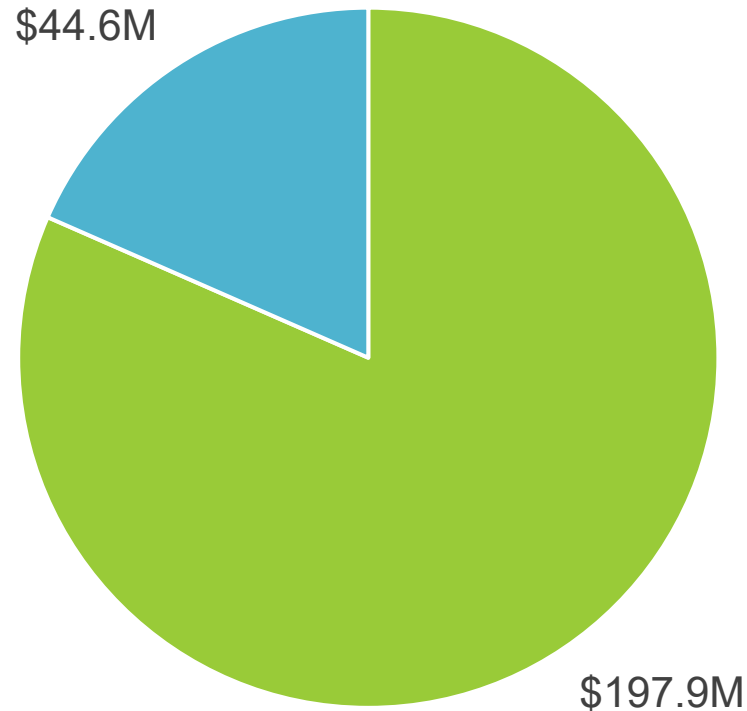
💧 \$8.8 Billion MyCIP (FY24-30)

Investment Drivers	ADOPTED BUDGET FY 25
Consent Decree Program	<b>\$97 M</b>
Ocean Outfall Legislation	<b>\$93 M</b>
Pump Stations & Flow Reduction	<b>\$131 M</b>
Renewal & Replacement	<b>\$60 M</b>
Other Capital Projects	<b>\$383 M</b>
<b>Totals</b>	<b>\$764 M</b>



# Engineering Contracts to Date

## A&E Fees



■ Total Engineering Fees

■ SBE Engineering Fees



**\$198 M in Engineering Contracts**



**28 Engineering Professional Service Agreements**



**22.5% of Fees for SBE's**



# Survey Contracts

PROFESSIONAL SERVICE AGREEMENTS FOR GENERAL LAND AND  
ENGINEERING SURVEYING AND MAPPING SERVICES

## Contract Information

Number of Contracts

6

3

Contract/Project No.

E24WS01  
(SET-ASIDE)

E24WS02  
(GOAL)

Estimated Cost

\$500 K  
+ 10% each

\$2M  
+ 10% each

Technical Categories

15.01 & 15.03

15.01,15.02,  
15.03, 15.04

SBE Recommendation

N/A

15%



Advertise: October 2024

## Support WASD with Survey Services, including:

- Topographic surveys
- Boundary surveys
- Benthic surveys



# Support Services for Planning

PROFESSIONAL ENGINEERING SUPPORT SERVICES FOR PLANNING OF WATER, WASTEWATER, RECLAIMED WATER AND MAINTENANCE FACILITIES

## Contract Information

One 5-year Contract(5, 2 yr OTR)

\$10,000,000

Categories

6.01, 6.02, 6.03, 10.01, 14.00, 16.00,  
19.06, 19.10, 20.00, 21.00

SBE A & E

15%



Advertise: January 2025

## Support WASD's Planning Division with the following:

- Hydraulic and process modeling, including modeling current and future conditions, and maintaining and calibrating the models as needed
- Analyzing alternatives for required upgrades and recommending solutions
- Providing planning level cost estimates of proposed infrastructure improvements, which may include life cycle cost analysis
- Preparation of Basis of Design Reports for proposed infrastructure improvements
- Conduct risk and vulnerability assessments of existing and proposed infrastructure



# Hydrogeological & Hydrogeology

HYDROGEOLOGIC, HYDROLOGIC AND ENGINEERING SERVICES FOR  
COMPREHENSIVE WATER RESOURCE PROJECTS INCLUDING INJECTION,  
PRODUCTION, MONITORING WELLS AND AQUIFER STORAGE AND RECOVERY WELLS

## Contract Information

One 6-year Contract(6, 2 yr OTR)

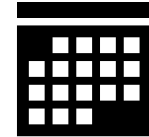
Categories

SBE A & E

\$15,000,000

6.01, 6.03, 10.02, 10.04, 10.09,  
10.05, 15.01, 16.00

20%



Advertise: January 2025

## Support WASD with Hydrogeology, including:

- wastewater injection
- water supply production
- alternative water supply
- monitoring wells
- aquifer storage and recovery (ASR) wells
- water and carbon management in the context of sustainability and water resource management



# CMOM for Wastewater

PROFESSIONAL SERVICE AGREEMENT FOR CAPACITY MANAGEMENT,  
OPERATION AND MAINTENANCE SERVICES PROJECT NO. E24WS03

## Contract Information

One 5-year Contract(5, 1 yr OTR)

\$10,000,000

Categories

6.01, 6.02, 6.03, 15.01

SBE A & E

20%

## Support WASD in meeting EPA Consent Decree and/or Consent Order CMOM Goals

- Inflow and Infiltration reduction
- Volume Sewer Customer Peak Flow Management
- Asset management to include inventories, criticality, condition assessments, and prioritization replacement models.
- Integrated maintenance management: EAMS, Informs, SCADA, GIS



Advertise: October 2024





# CMOM for Water

PROFESSIONAL SERVICE AGREEMENT FOR WATER CAPACITY MANAGEMENT,  
OPERATION AND MAINTENANCE SERVICES

## Contract Information

One 5-year Contract(5, 1 yr OTR)

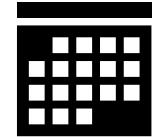
\$10,000,000

Categories

6.01, 6.02, 6.03, 11, 12, 13, 15.01

SBE A & E

20%



Advertise: Spring 2025

## Tasks associated with Water System Operational Tasks and Process Improvements

- Electronic Operation and Maintenance Manuals
- Process Improvements / Optimization
- Support with regulations, including Lead and Copper Rule
- Other Tasks as needed



# Construction Engineering Inspection

PROFESSIONAL SERVICE AGREEMENTS FOR CONSTRUCTION ENGINEERING  
INSPECTION SERVICES

## Contract Information

Number of Contracts

4

Contract/Project No.

TBD

Estimated Fee

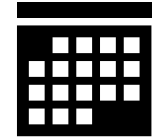
\$4 M  
+ 10% each

Technical Categories

6.01, 6.02, 6.03, 15.01

SBE Recommendation

20%



Advertise: Spring 2025

## Support WASD with Construction Engineering Inspection for:

- Pipeline Construction
- Pump Station Construction
- Treatment Plant Construction



# Bond Engineer

PROFESSIONAL ENGINEERING SERVICES IN SUPPORT OF THE MIAMI-  
DADE WATER AND SEWER DEPARTMENT BOND ORDINANCE

## Contract Information

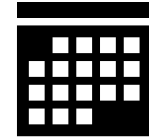
**Project Name – Water and Sewer Rates, Fee Analysis and Bond Engineering Services**

**Contract Term – Three (3) Years with Two (2) One (1) year OTR**

**Total Contract Amount - \$5M - \$7M**

**Technical Categories – Prime 6.01, Prime/Other 6.02, & 6.03**

**SBE A & E Goal – N/A**



Advertise: Spring 2025

## Support WASD's with the following:

- Task #1 – Annual Adequacy of Rates and Charges Report
- Task #2 – Annual Bond Consultant Report
- Task #3 – Bond Feasibility Report
- Task #4 – Annual Wholesale Rate Review and Meeting
- Task #5 – Retail Rate Study
- Task #6 – Service Area Release
- Task #7 – Miscellaneous Tasks as Approved by the Director through Task Authorization



# Online Resources

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Lead Project	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
696		Project Completion	1 day	Tue 3/4/25	Tue 3/4/25	695																	
697		<b>C2P - Atlas Q16</b>	<b>701 days</b>	<b>Mon 5/2/22</b>	<b>Mon 4/1/24</b>		<b>Amaury Betancourt</b>																
698		Project Initiation	152 days	Mon 5/2/22	Fri 9/30/22																		
699		Design	121 days	Mon 10/3/22	Tue 1/31/23	698																	
700		Procurement	120 days	Wed 2/1/23	Wed 5/31/23	699																	
701		Construction Start	303 days	Thu 6/1/23	Fri 3/29/24	700																	
702		Project Completion	1 day	Mon 4/1/24	Mon 4/1/24	701																	
703		<b>C2P - Atlas R14</b>	<b>701 days</b>	<b>Mon 5/2/22</b>	<b>Mon 4/1/24</b>		<b>Amaury Betancourt</b>																
704		Project Initiation	152 days	Mon 5/2/22	Fri 9/30/22																		
705		Design	121 days	Mon 10/3/22	Tue 1/31/23	704																	
706		Procurement	120 days	Wed 2/1/23	Wed 5/31/23	705																	
707		Construction Start	303 days	Thu 6/1/23	Fri 3/29/24	706																	
708		Project Completion	1 day	Mon 4/1/24	Mon 4/1/24	707																	
709		<b>Small Diameter Water Main Replacement Program (SDWMRP) - Atlas W32B</b>	<b>1980 days</b>	<b>Fri 4/30/21</b>	<b>Wed 9/30/26</b>		<b>Amaury Betancourt</b>																
710		Project Initiation	1 day	Fri 4/30/21	Fri 4/30/21																		
711		Design	759 days	Mon 5/3/21	Wed 5/31/23	710																	
712		Procurement	335 days	Thu 6/1/23	Tue 4/30/24	711																	
713		Construction Start	882 days	Wed 5/1/24	Tue 9/29/26	712																	
714		Project Completion	1 day	Wed 9/30/26	Wed 9/30/26	713																	
715		<b>Small Diameter Water Main Replacement Program (SDWMRP) - Atlas P16</b>	<b>2342 days</b>	<b>Mon 5/2/22</b>	<b>Thu 9/28/28</b>		<b>Amaury Betancourt</b>																
716		Project Initiation	608 days	Mon 5/2/22	Sat 12/30/23																		
717		Design	271 days	Mon 1/1/24	Fri 9/27/24	716																	
718		Procurement	304 days	Mon 9/30/24	Wed 7/30/25	717																	
719		Construction Start	1155 days	Thu 7/31/25	Wed 9/27/28	718																	
720		Project Completion	1 day	Thu 9/28/28	Thu 9/28/28	719																	
721		<b>SDWMRP - Atlas Q16</b>	<b>2342 days</b>	<b>Mon 5/2/22</b>	<b>Thu 9/28/28</b>		<b>Amaury Betancourt</b>																
722		Project Initiation	608 days	Mon 5/2/22	Sat 12/30/23																		
723		Design	271 days	Mon 1/1/24	Fri 9/27/24	722																	
724		Procurement	304 days	Mon 9/30/24	Wed 7/30/25	723																	
725		Construction Start	1155 days	Thu 7/31/25	Wed 9/27/28	724																	
726		Project Completion	1 day	Thu 9/28/28	Thu 9/28/28	725																	
727		<b>SDWMRP - Atlas V31</b>	<b>2342 days</b>	<b>Mon 5/2/22</b>	<b>Thu 9/28/28</b>		<b>Amaury Betancourt</b>																
728		Project Initiation	608 days	Mon 5/2/22	Sat 12/30/23																		
729		Design	271 days	Mon 1/1/24	Fri 9/27/24	728																	
730		Procurement	304 days	Mon 9/30/24	Wed 7/30/25	729																	
731		Construction Start	1155 days	Thu 7/31/25	Wed 9/27/28	730																	

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