

SAWS Capital Improvements Program

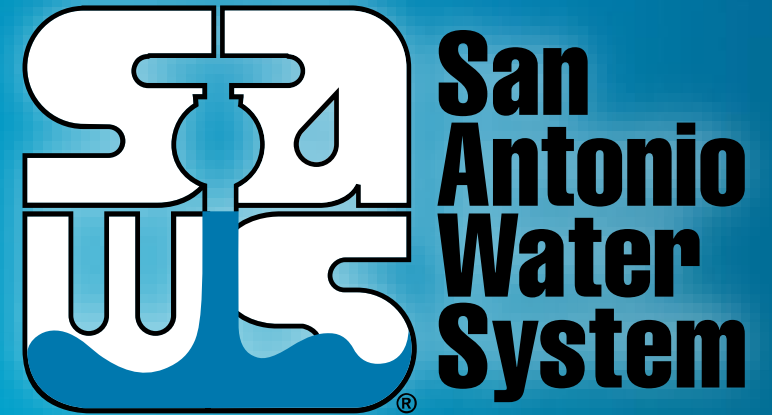
Andrea L.H. Beymer, P.E.

Senior Vice President - Engineering & Construction

Richard Donat

Manager - Project Controls

February 13, 2023



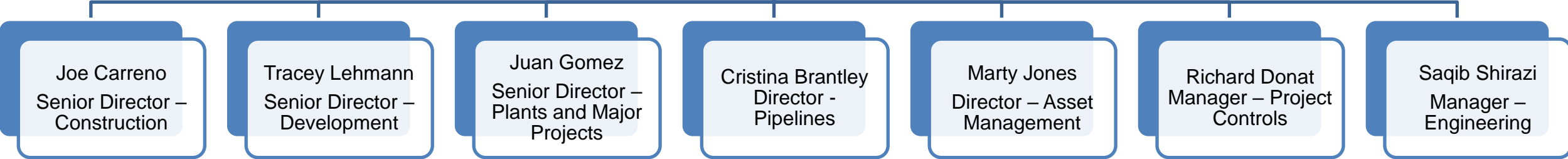
MAKING SAN ANTONIO
WATERFUL



Engineering and Construction Department



Andrea Beymer
Senior Vice
President



Current Programs

Engineering and Construction

- Sewer Main Rehab - CMOM and Inflow
- Water Main Replacement
- Treatment Master Plan
- Resiliency Measures



2022 Potable Water Infrastructure Plan

Current Programs

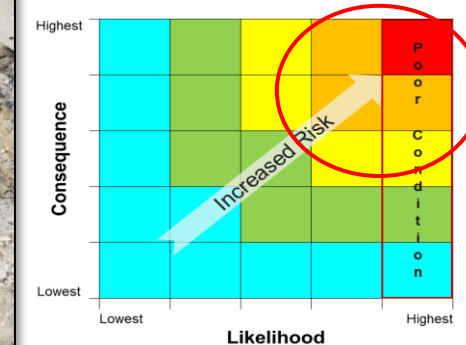
- Hydraulic Model Updated and Calibrated
- Demand projection out to 2050
- Existing System Evaluation Complete
- Future System Evaluation
- Capital Improvements Identified
- Final Model Deliverable
- Final Potable Water Infrastructure Plan



Asset Management Program Focus

Current Programs

- Data Standards and Data Management Plan
- Condition Assessments Water Mains and Pump Station Assets
- Risk Determination Process Pump Station Assets
 - Likelihood of Failure, Consequence of Failure
- Remaining Effective Life & Replacement Cost Determination
- CIP Planning and Prioritization Process





EPA Consent Decree

91% of the overall \$1.2B program committed

- Capacity Remedial Measure Program, 2024 CIP
 - W-9, \$71.2M
 - W-52, \$27.4M
- Condition Remedial Measure Program
 - Majority of Condition work is complete or under construction

W-6 Lackland Project Update

- Most costly and complex sewer pipeline project in San Antonio's history
 - \$168 million project
- Over 5 miles of 104" gravity sewer main at depths up to 140 feet
 - Early final completion June 2023



5 Year Capital Improvement Plan (\$ in millions)

Proposed



CIP by Core Business	2023	2024	2025	2026	2027	Total 2023-2027
Water Delivery	215.2	254.9	255.5	202.5	258.5	1,186.7
Wastewater	266.6	318.4	338.4	264.5	300.8	1,488.8
Water Supply	25.2	32.4	25.4	19.4	26.7	129.1
Chilled Water	17.8	22.9	6.5	4.5	5.2	56.9
Total	\$524.7	\$628.7	\$625.8	\$490.9	\$591.3	\$2,861.4

SAWS 2023 CIP

By Core Business



Water Delivery
\$215 Million



Wastewater
\$267 Million



Water Resources
\$43 Million

TOTAL
\$524.7M

\$414M Construction
\$84M Design

83% Replacement
17% Growth

Water Delivery

\$215.7 Million

Pipelines – \$46.0 million

Facilities – \$104.3 million

Gov't Replacements - \$31.5 million



Water Construction Projects

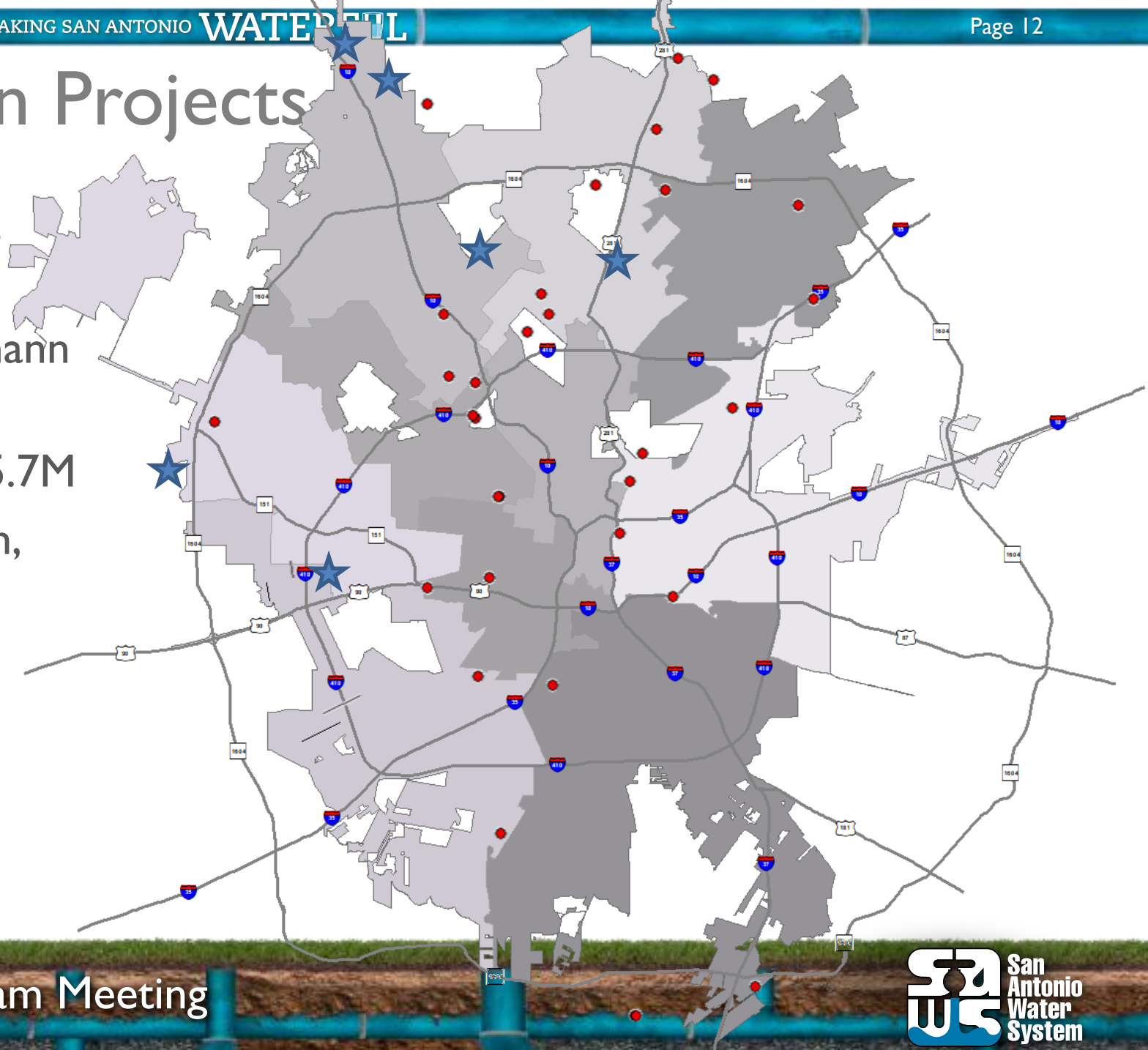
Water Main Replacement

- Highest priority projects identified in 2020 condition study
- N. San Felipe Water Main Replacement, \$2.6M
- Water Main Replacement Projects 2022 CIP, \$16.0M



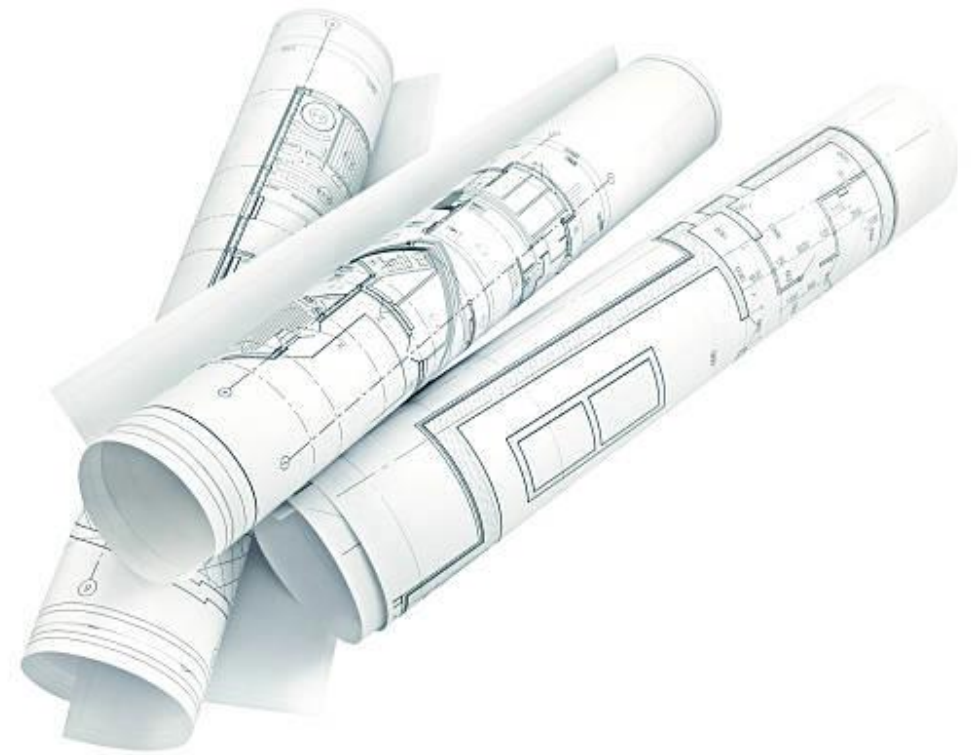
Water Construction Projects

- Marbach Pump Station Rehab, \$20.2M
- I-10: Boerne Stage to Heuermann Rd, \$18.5M
- Bitters Tank Replacement, \$15.7M
- Blanco Rd 24-inch Water Main, \$10.6M
- Broadband PLCs, \$6.3M
- Talley Rd and Sable Run PZ Interconnect, \$2.0M



Water Design Projects

- Water Main Design Projects
 - Current year design RFQ's under review
- Water Production System Design Projects, \$6.6M
 - Disinfection System Upgrades
 - Lorimor tank and main
 - Work Order contracts



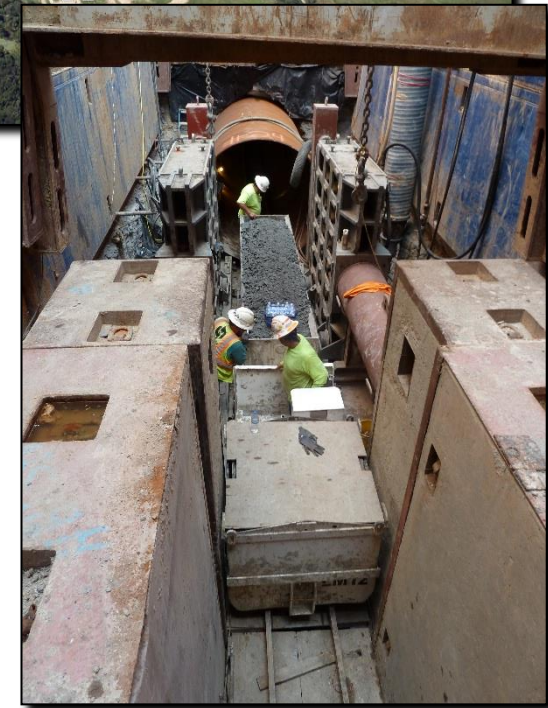
Wastewater

\$266.6 Million

Pipelines - \$74.1 million

Facilities - \$150.4 million

Gov't Replacements - \$21.0 million



Sewer Main Condition Rehab Program

\$28.7 Million

- CMOM Construction, \$21.4M
 - Construction of 2 miles of sewer main rehab and emergency work
- Condition Design Work
 - CMOM, three design packages remain



Project Name	Open Cut	CIPP	Pipe Bursting	Jacking Casing	Estimated Construction Cost
2019 CMOM Package 1 - Rosillo Creek (S. WW White Rd.)			✓		\$755K
2020 CMOM Package 1A (LD) Jack and Bore				✓	\$7.9M
2020 CMOM Package 6 (Major Roads)		✓			\$1.9M
2021 CMOM Package 1			✓		\$1.9M
2021 CMOM Package 4		✓			\$8.9M
2021 Inflow Reduction Package 1	✓		✓		\$2.8M
2021 Inflow Reduction Package 2	✓		✓		\$4.8M
2021 Inflow Reduction Package 3	✓		✓		\$1.6M
Loop 410 @ Valley Hi Dr Bore				✓	\$1.0M
Multiple Sewershed Package 15: Pipe Burst & Open Cut	✓		✓		\$2.0M
Multiple Sewershed Package 15: CIPP		✓			TBD
Multiple Sewershed Package 16B	✓				\$2.0M
Probandt Replacement Project (E Lachappelle to Oelkers)	✓				\$1.5M



Sewer Projects

Construction

- Acequia Lift Station 30-inch Force Main, \$2.1M
- E-54 Regional Lift Station, \$14.3M
- Palo Alto Villas Sewer Main Extension, \$10.5M

Design, \$2.1M

- C5/C28 Future Extension through Our Lady of the Lake
- Lift Station Rehab Phase 6



Water Recycling Center Master Plan

- Looks at the holistic needs of SAWS Wastewater Treatment Facilities over a 30-year horizon
- Considers growth, future regulatory requirements and condition of the facilities
- \$40.9M design funding allocated for Master Plan projects in 2023 CIP

Water Supply

\$42.9 million

Water Resources – \$19.6 million

Recycled Water – \$5.5 million

Chilled Water- \$17.8 million

Water Resources and Recycled Water

Construction

- Artesia Pump Station Pumps and Motors, \$10.1M
- Brooks Recycled Water Pump Station Upgrade, \$3.8M
- ASR Pipeline Cathodic Protection, \$2.1M

Design, \$3.0M

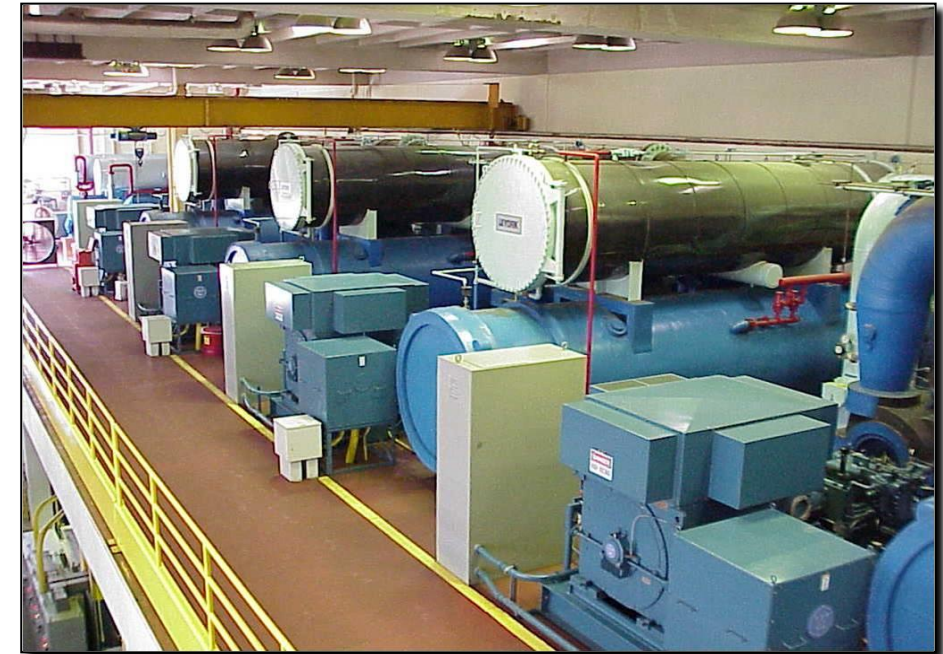
- Seale Pump Station Improvements
- Riverside Golf Course Pump Station
- H2Oaks Center (Twin Oaks Pressure Reducing Station)



Chilled Water Plants

\$17.8 Million

- Chiller replacements
- Electrical upgrades and SCADA upgrades to Commerce St, downtown and JBSA plants



Ongoing Challenges

- Price Increase
- Long lead times for materials affect most projects
- Contractor availability and labor shortages



Contract Solicitations

<https://www.saws.org/business-center/>

Business Center

Contract Solicitations

- Login
- Update Your Account
- Archive
- Bid Opening Results
- Bid Tabs
- Forms
- Contract & Project Management System
- Future Contract Opportunities

Contract Solicitations

Vendors are invited to submit proposals for various contracts seeking goods and services, and view current invitations to bid. Register for access to new contract opportunities, planholders lists, and more.

[Register Now >](#)

Vendors & Contractors Login

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San Antonio Water System is accepting submissions until the closing date:

Results **1 - 18** of **18**

The Next Five Years

SAWS CIP 2023-2027



5 Year Total

\$2.86 Billion

\$1.9 Billion Aging Infrastructure

\$512 Million Growth

\$133 Million Water Resources

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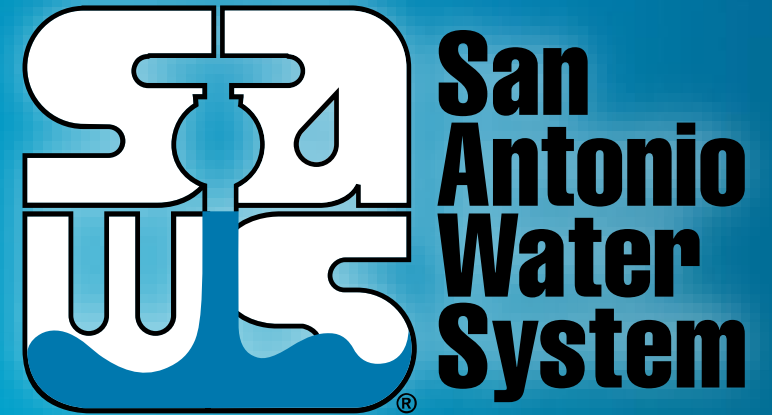
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SMWB Program Updates

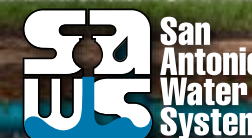
Marisol V. Robles

SMWB Program Manager

2023 CIP Kickoff Meeting

February 13, 2023

SAWS Capital Improvements Program Meeting



SMWVB Program

January 1, 2017 – December 31, 2022

- Aspirational SMWB Goals apply to every contract with SMWB availability:
 - Construction: 20%
 - Professional Services: 40%
 - Purchasing: 19%
- SMWB Points for discretionary contract solicitations
- Requirements: SBE or HUB status, SCTRCA, local presence requirement for Construction and Professional Services

What is changing?

- Relevant Marketplace
- Contract-by-Contract Goal-Setting
- Mandatory Contract-Specific Goals for Discretionary Solicitations
- Aspirational Contract-Specific SMWB Goals for Low Bids
- Establishment of an Organizational Benchmarking Goal (20%)
- Streamlined Name

Solicitations – Goal Setting

- Contract-by-Contract Goal Setting for all solicitations where there is SMWB availability.
- One SMWB Goal per contract.
- Who qualifies toward meeting the SMWB Goals?
 - Both prime contractors and subcontractors
 - Local market-area firms
 - Small Business Enterprise (SBE) Certification

Solicitations

- Points awarded for Discretionary Aspirational SMWB Goals
 - Professional Services and Discretionary Construction Goals will be mandatory.
 - All-or-Nothing Points
 - Proof of Outreach
- Other considerations:
 - SSORP Non-Standard Scoring
 - Possible Mentor-Protégé Points for Construction and Professional Services projects over \$5 Million
 - Point deduction for prior non-compliance with SMWVB Program

Other Key Updates

- 6-Month Pilot Program:
 - January 1, 2023 – June 30, 2023
 - Community feedback
 - Contract-by-contract goal-setting impact on SMWB participation
 - Development of optimal workflows
 - Update Board in August 2023
 - SMWVVB Enterprise Program Policy to SMWB Program Policy

What we are asking for

- Six-Month Pilot Program
 - January 1, 2023 – June 30, 2023
- Your observations
 - What's working well
 - What isn't (working well)
- Recommendations

<https://www.saws.org/business-center/smwvb-at-saws/>

SMWB Program Updates

Marisol V. Robles

SMWB Program Manager

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