

# Steven M. Clouse WRC Biosolids System Upgrades (RFQ)

Ila Drzymala, Ph.D., P.E.

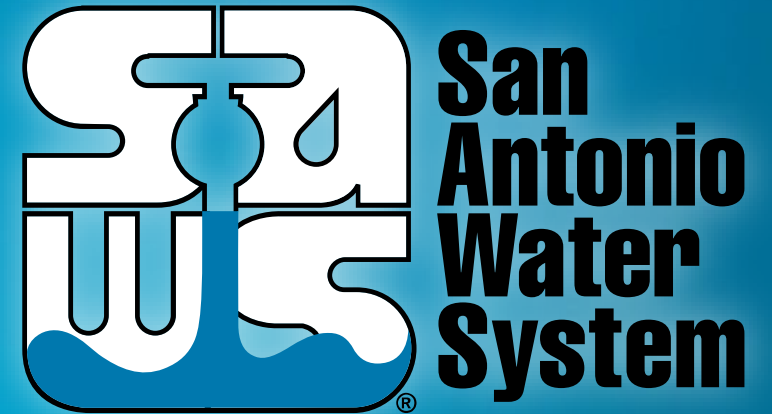
Senior Project Engineer, Plants & Major Projects

Roxanne Lockhart

Contract Administrator, Contract Administration

Marisol V. Robles

SWMB Program Manager



Non-Mandatory Pre-Submittal

October 5, 2022

MAKING SAN ANTONIO  
**WATERFUL** 

# Oral Statements

Oral statements or discussions during this Pre-submittal Conference will not be binding, nor will they change or affect the RFQ or the terms and conditions of the contract. Changes, if any, will be addressed in writing only via an Addendum

# Agenda

- RFQ Objective
- Small Business Enterprise (SBE) Requirements
- RFQ Schedule
- Addenda
- Submitting a Response
- Submittal Deadline
- Scoring Criteria
- Non-Mandatory Site Visit
- Communication Reminders
- Respondent Questions
- Project Overview
- Project Scope
- Proposed Facilities
- Design Services
- Design Considerations
- Project Schedule and Cost
- Questions

# RFQ Objective

- To procure professional engineering services, which will require work to be performed by qualified professional engineering firms
- Selected firms shall provide project management and engineering services entailing planning, estimating, studies, reports, preliminary engineering evaluations, design, permitting, field investigations, constructability review, cost estimating, scheduling, bid, construction, start-up/commissioning, and overall project management and coordination services for the design and construction of the Project

# Aspirational SBE Goal

Aspirational SBE Goal	Description
25%*	Points assessed on tiered scale

\* 25% of the value of the contract

# SMWB Requirements

- SBE Certification accepted from the following entities:
  - South Central Texas Regional Certification Agency (SBE)
  - Texas H.U.B.
- RFQ Scoring:
  - Up to 15 Points
  - Local Office
  - Small Business Enterprise (SBE) at minimum

# Post Award: Subcontractor Payment & Utilization Reporting (S.P.U.R.) System

[www.SAWS.SMWBE.com](http://www.SAWS.SMWBE.com)



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# SMWB Questions

- Questions related to the SMWB Program, the Good Faith Effort Plan (GFEP), or finding certified subconsultants may be directed to the SMWVB Program Manager until the RFQ is due

**Marisol V. Robles**

SMWVB Program Manager

Email: [Marisol.Robles@saws.org](mailto:Marisol.Robles@saws.org)

Telephone: 210-233-3420



# RFQ Schedule

## Questions Due

October 14, 2022,  
by 4:00 PM

## SOQs Due

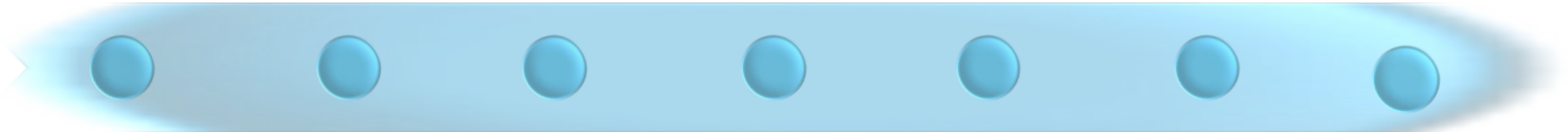
November 1, 2022  
by 2:00 PM

## Notification of Selection

December  
2022

## Project Notice to Proceed

January 2023



## Answers Posted by SAWS

October 21, 2022,  
by 4:00 PM

## Interview with Consultants

(if necessary)  
November 2022

## SAWS Board Approval

January 2023

The dates listed above are subject to change without notice

# Submitting a Response

- Utilize the Submittal Response checklist
- Reference the RFQ document section IV. Submitting a Response for detailed instructions to prepare the proposal and to determine what additional items are required other than the fillable Evaluation Criteria forms
- Page limit of twenty-three (23) pages \*
  - This does not include required documents\*
  - Evaluation Criteria forms are considered required documents\*
    - Table with page count will be included in the Addendum\*

\*To be reconciled via Addendum

# Submitting a Response

- Thoroughly read the RFQ document prior to submitting your proposal to gain a clear understanding of the scope of services
- Maximize points by addressing all items in the order they are identified in the RFQ
- Be specific, avoid “boiler plate” and “generic” responses
- Contact the SMWVB Program Manager for assistance, if necessary
- Perform a thorough QA/QC on your proposal prior to submitting

# Submittal Deadline

- Submittal deadline is **November 1, 2022, at 2:00 P.M. CDT**
- Electronic Submittals Accepted Only
- Address a PDF of your submittal to [contracting@saws.org](mailto:contracting@saws.org)
- Entitle the subject line of the submission email with “**PS-00139 – SMCWRC Biosolids System Upgrades**” and name of Respondent
- The file size limitation for submission is **10MB**
- Only one (1) file with all required response information shall be submitted
- Late responses will not be accepted, and will not be opened

# Scoring Criteria

Evaluation Criteria	Weight (points)
Team Experience and Qualifications	30
Similar Projects and Past Performance	20
Project Understanding and Approach	35
SMWB Participation (Good Faith Effort Plan)	15
<b>TOTAL</b>	<b>100</b>

# Team Experience and Qualifications

Refer to Attachment II

- Organizational Chart – Identify all proposed “Key Personnel” and “Key Sub-consultants”
  - Provide a 1-page resume for up to six (6) Key Personnel
    - The Project Manager’s resume should be included first
  - Availability Table Matrix – include the percentage of time each proposed team member shown on the organizational chart will be committed to the Project, as well as their proposed role, geographic location, and years of experience
  - Describe the composition of the proposed team including Sub-consultants, roles and responsibilities of team members, and teaming history
- \* Use Evaluation Criteria/Fillable Forms (Attachment III)

# Similar Projects and Past Performance

## Refer to Attachment III

- Provide 3 relevant and similar **completed** projects in last 15 years
- The proposed Technical Leads shall have participated in at least 1 of the 3 projects. Other Key Personnel shall have participated in at least 1 of the 3 projects
- Project references, at a minimum, shall include:
  - Names of clients and location (city and state)
  - Reference contact to include names, titles, and “current” phone numbers (verify)
  - Key contract dates – year and duration of projects
  - Detailed description of project – include specific aspects that Respondents want considered in the evaluation
  - Key Personnel and Sub-consultants’ responsibilities

\* Use Evaluation Criteria/Fillable Forms (Attachment III)

# Similar Projects and Past Performance

## Refer to Attachment III

- OPCC Table – Provide cost information for the 3 completed projects submitted as it relates to the accuracy of the OPCCs
- Provide all information being requested on the form
- Stating “N/A” is not acceptable

\* Use Evaluation Criteria/Fillable Forms (Attachment III)



# Project Understanding and Approach

## Refer to Attachment II

- Provide a detailed approach explaining how your firm would technically execute and complete the services sought in this RFQ on time and within budget
- Provide innovative approaches, ideas, and recommendations
- Provide a detailed project design schedule
  - Assume a design start date of January 15, 2023 and construction start date of May 19, 2025
- All narrative format
- Respondents may use up to two (2) pages of 11"x17" size pages in lieu of 8 1/2" by 11" (may choose to use only one page of 11"x17" size)

# Project Understanding and Approach

- Provide a detailed understanding of the project
  - Demonstrate understanding of design challenges including challenges associated with construction planning and sequencing.
  - Understand coordination requirements with End Users, plant operators, plant neighbors, and project stakeholders
  - Understand project permitting requirements
  - Demonstrate approach to raise visibility of the project and attract qualified contractors
  - Demonstrate plan to coordinate with SAWS staff, other design consultants, and other contractors on site at Steven M. Clouse WRC

# Project Understanding and Approach

- Provide a specific and unique QA/QC plan for this project
  - Plan to identify, track, and resolve issues
  - Role of independent QA/QC team
  - Describe accuracy and completeness of the OPCCs and how they are derived for each design phase, Respondent's familiarity with AACEs Recommended Practices 17R-97 and 56R-08
  - Describe how estimates will be prepared to ensure they reflect the procurement method, current market trends conditions including price escalation and volatility, labor shortages, supply chain issues, and contractor and sub contractor availability

# Project Understanding and Approach

- Provide a specific and unique QA/QC plan for this project
  - Describe the methods for validating prices for equipment, materials, and specialized labor for projects
  - Describe the methods for validating lead time for critical equipment and materials
  - Describe the methods for validating construction duration for proposed improvements

\* Please refer to the RFQ for detailed requirements for all Evaluation Criteria

# Addenda

- Register as a vendor with SAWS Vendor Registration and Notification
- More than one (1) addendum may be posted
- Addendums are acknowledged on the Respondent Questionnaire
- Check SAWS website often and prior to submitting your proposal

# Addenda

- Addendum 1 was posted on 9/29/2022 and included the following:
  - SMWB Goal/Percentage clarification
  - Pre-submittal conference time reconciliation
  - Non-mandatory Site Visit Information
- Addendum 2 was posted on 10/3/2022:
  - Corrected SMWB Goal and response to Questions in Addendum 1
  - Revised Good Faith Effort Plan (GFEP)
- Addendum 3 is forthcoming with reconciliation of pages and Q&A - posted per the RFQ Schedule

# Non-Mandatory Site Visit

- Non-Mandatory Site Visit will be held on October 6, 2022, at 9:00 a.m. and 11:00 a.m.
  - Sign up in advance for one of these times (no later than October 5, 2022 at 5:00 p.m.)
  - Two (2) person limit per Firm. Each firm should only attend one of the site visit time blocks, not both.
  - All parties must adhere to SAWS COVID-19 safety procedures.
  - Arrive 20 minutes before the site visit time for mandatory temperature screening at the kiosk in the Administrative Building (Building 16).
    - Attendees with temperatures exceeding 100.4 F will not be allowed on the site visit.
  - No Q&A during site visit. Photos, notes, and video are allowed

# Communication Reminders

- No communication regarding the RFQ with the following:
  - SAWS Project Manager
  - SAWS Technical Representative
  - Any other SAWS staff, managers, directors or VPs
  - City Council member or staff
  - SAWS Board of Trustees
- No phone calls, emails, letters, direct/indirect discussion of the RFQ
  - If submitting for the RFQ and/or doing work for SAWS, indicate this when speaking with SAWS staff, but refrain from discussing the RFQ
- From release of the RFQ to Board Award



# Respondent Questions

- Must be submitted in writing via e-mail no later than October 14, 2022, by 4:00 P.M. to:

**Roxanne Lockhart**

Contract Administration Department

San Antonio Water System

[Roxanne.Lockhart@saws.org](mailto:Roxanne.Lockhart@saws.org)

- Questions will be addressed as required through addendum

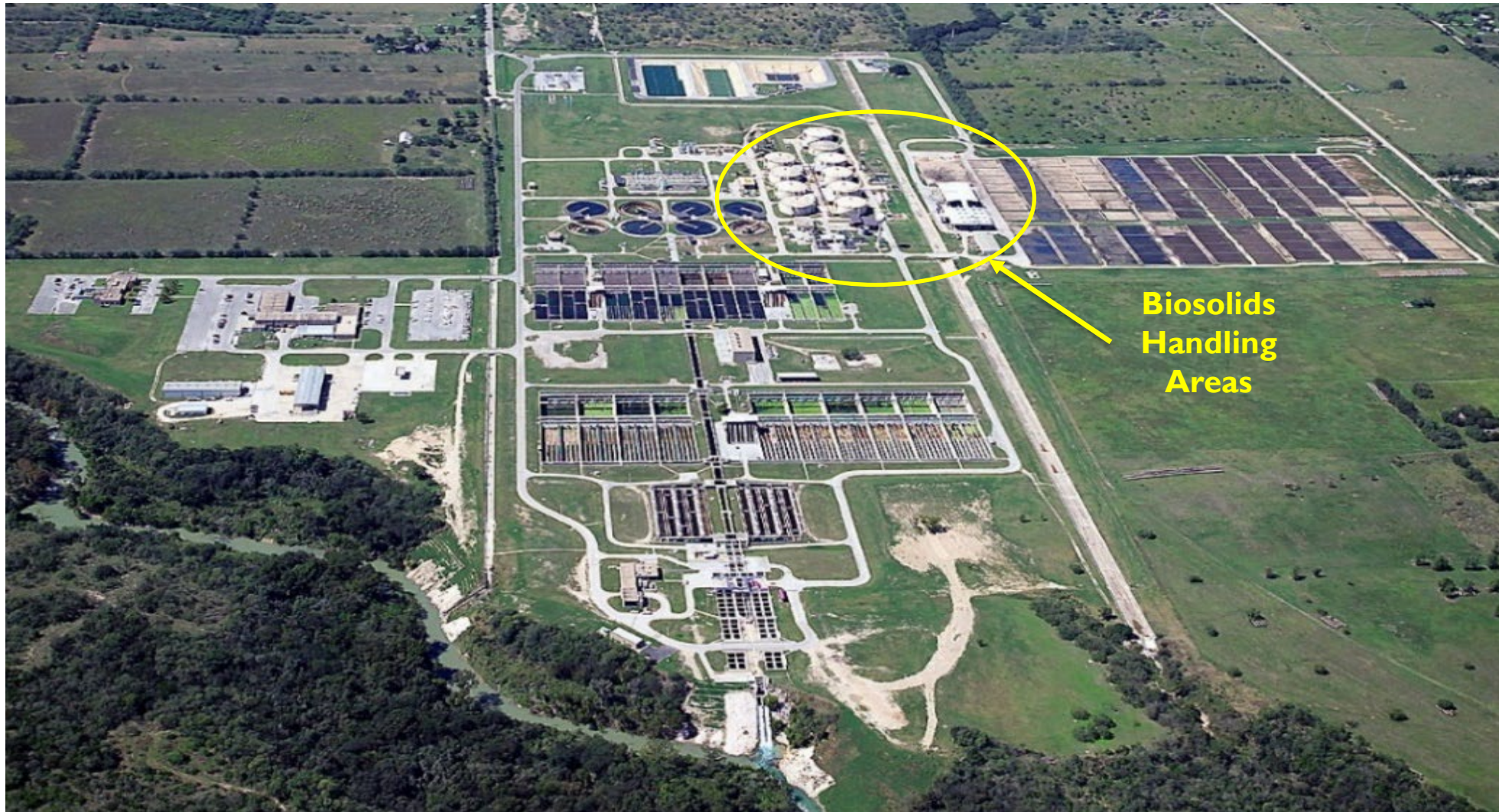
# Project Overview

- Project is included in 2020 SAWS Wastewater Facilities Master Plan for Water Recycling Centers
  - Purpose is to improve biosolids handling processes and capacity at the Steven M. Clouse WRC, prevent higher biosolids (cake) management costs, and better prepare SAWS for a possible future Class A biosolids option
  - The Master Plan identified a capacity gap in solids screening, thickening, and dewatering based on projections of biosolids to be handled through 2050. A rapid condition assessment determined some solids handling equipment to be nearing the end of its useful life.

# Project Overview

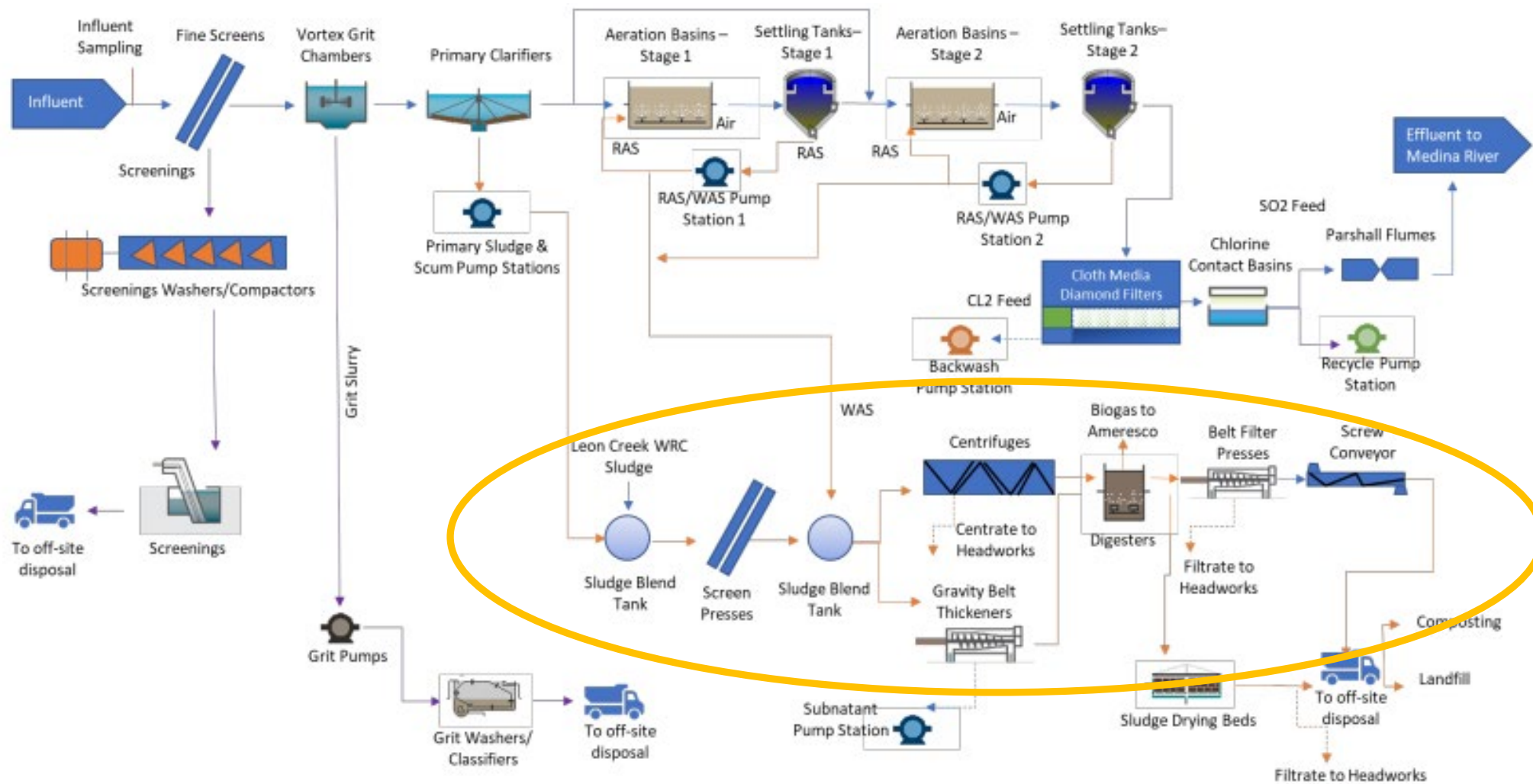
- Steven M. Clouse WRC is the centralized location for handling the biosolids generated at SAWS treatment plants
- This project will mainly focus on biosolids handling areas including thickening, dewatering, and storage

# Project Location – Steven M. Clouse WRC



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# Process Flow Diagram



# Project Scope

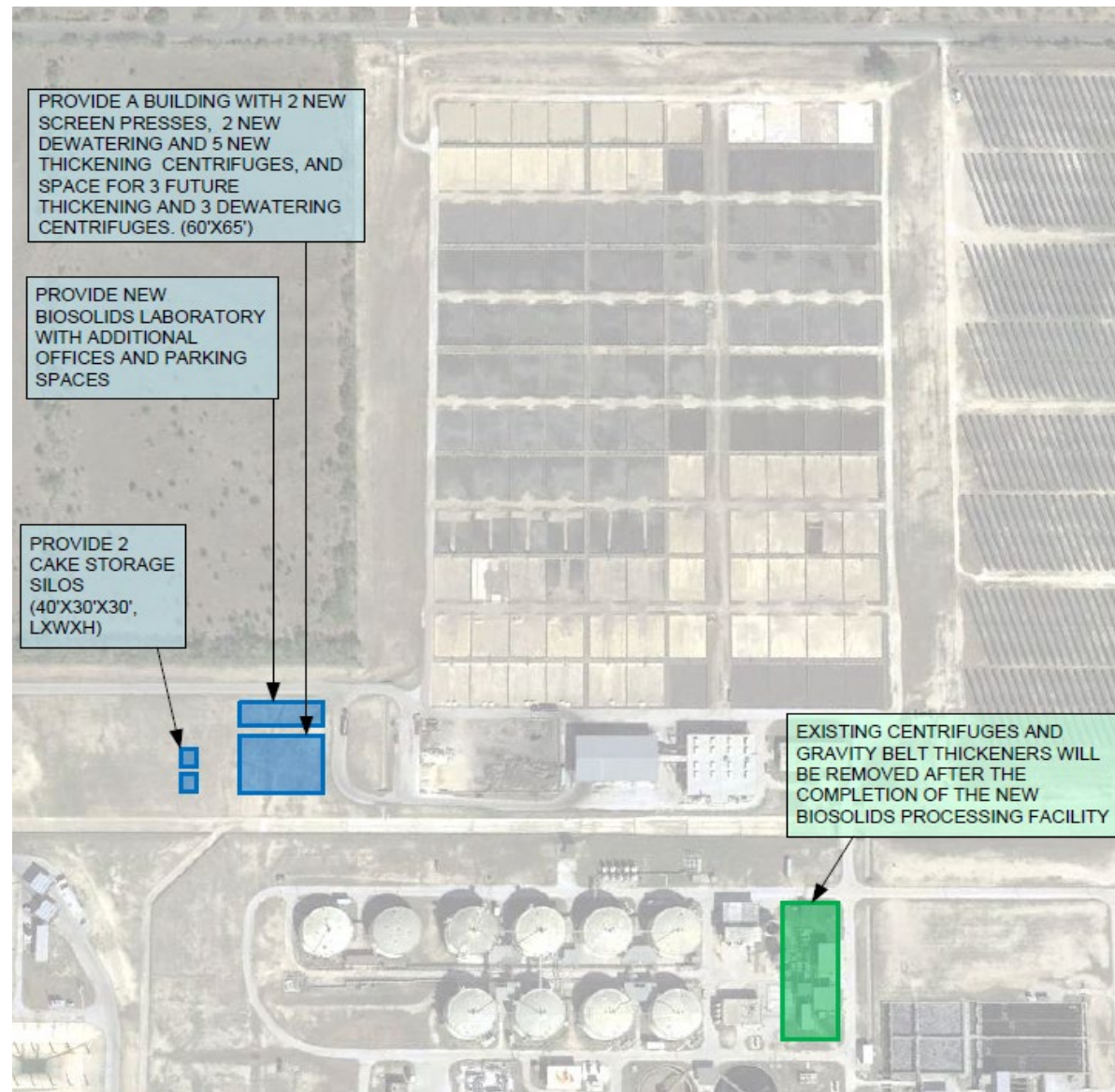
- Construct a new centralized biosolids building and install new solids screen presses, thickening centrifuges, and dewatering centrifuges. Provide space for future expansion.
- Demolish the current belt filter press pavilion once new biosolids building is constructed and new dewatering system is placed into service
- Construct a new biosolids laboratory with office and storage spaces, a parking lot, a road, and sidewalks for operator and pedestrian access

# Project Scope

- Construct new cake storage silos
- Install all new electrical, instrumentation and controls, and SCADA equipment
- Provide adequate levels of system automation, controls, and instrumentation to optimize the process operation and performance
- Include all associated site civil, mechanical, structural, electrical, and I&C work for the new facility

# Proposed Facilities

Preliminary design concept for centralized biosolids handling facility, as included in the 2020 Master Plan





# Design Services

- Selected Consultant will provide the following design services:
  - Conceptual Design and Technology Evaluation
  - 30% Design
  - 60% Design
  - 90% Design
  - 100% Design / Bid Phase Services
  - Construction Phase Services
- Other services include permitting, field investigations, cost estimating, constructability reviews, scheduling, start-up and commissioning, overall project management, and coordination

# Design Services

- Conceptual Design and Technology Evaluation services will investigate viable and cost-effective thickening and dewatering technologies
- Consider current liquid stream processes, quantity and quality of sludge stream, and changes to liquid stream quantity and quality because of:
  - Near future biological nutrient removal implementation (most likely A/O process)
  - Possible phosphorous harvesting implementation
  - Thermal or chemical hydrolysis technology implementation

# Design Services

- Coordinate with utilities that have biosolids handling facilities similar in terms of capacity and technology to the proposed facilities in this RFQ
- Participate in site visits and interviews
- Conduct flows and loads modeling and calculations for process streams and equipment
- Make recommendations on need for bench- or pilot-testing

# Design Services

- Evaluate various approaches for procurement of thickening and dewatering equipment
- Issue request for proposal/competitive sealed proposal to pre-screen, pre-select and/or pre-purchase thickening and dewatering equipment
- Participate in the contractor evaluation process
- Make final recommendations

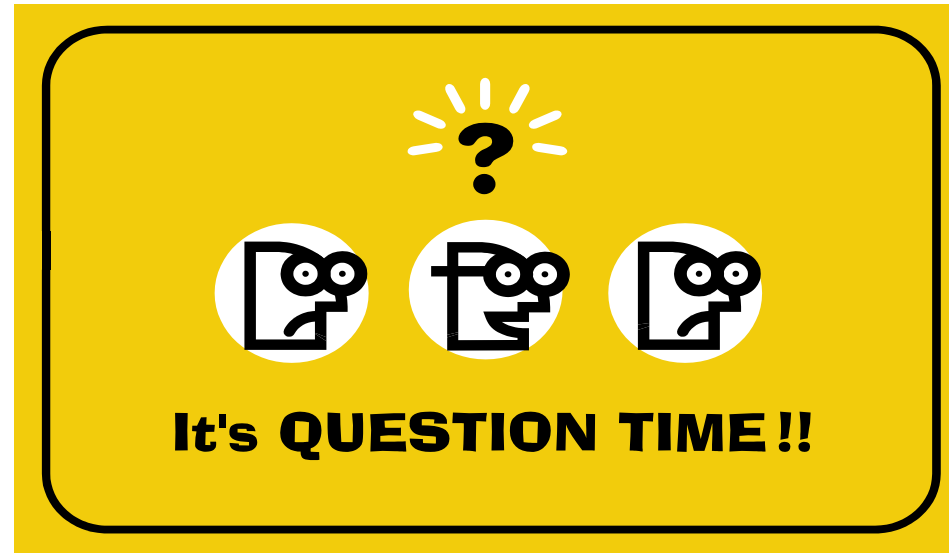
# Design Considerations

- RFQ includes biosolids projection tables from Master Plan
- RFQ includes a table that shows component evaluation summary of process areas included in this project and their core risk criticality classification
  - Risk classification is based on field evaluations performed in 2020
- Design will consider the need to address the items included in these tables and other items as determined during design

# Project Schedule and Cost

<b>Event</b>	<b>Date</b>
Design NTP	January 2023
Board Award Construction Contract	May 2025
Project Complete	May 2028

<b>Project Cost Center</b>	<b>Cost Forecast</b>
Construction	\$66,000,000



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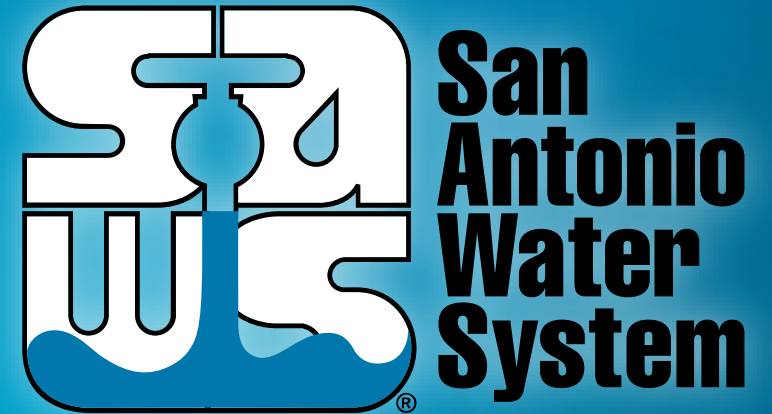
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Non-Mandatory Pre-Submittal

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