

Leon Creek WRC Hydraulic and Solids Improvements (RFQ) PS-00146

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

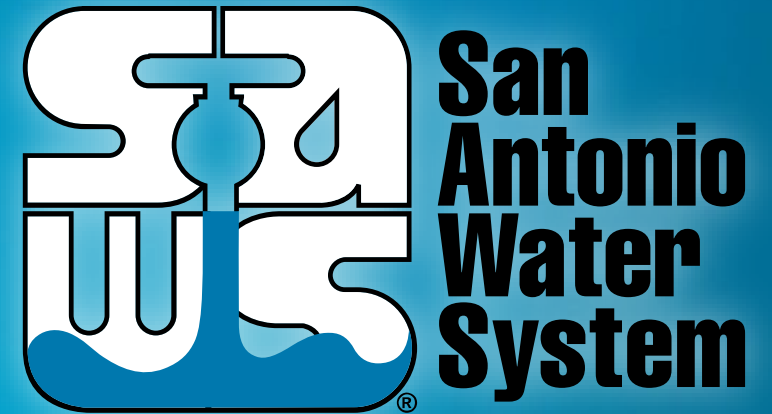
Sr. Project Engineer

Marisol V. Robles

Manager – SMWB Program

Florinda Gonzales

Contract Administrator



Non-Mandatory Pre-Submittal Meeting

February 8, 2023

MAKING SAN ANTONIO
WATERFUL



General Information and Reminders

- This is Non-Mandatory Pre-Submittal Meeting
- Attendees should sign-in via chat on WebEx
- Presentation will be posted on SAWS website along with the sign in sheet
- Stay muted during presentation, questions may be entered in chat and will be addressed at the end

Oral Statements

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

Agenda

- Objective
- Selection Process
- Evaluation Criteria
- SMWB Requirements
- Submittal Deadline
- Submission Requirements
- Submission Reminders
- Communication Reminders
- Question/Addendum
Deadline
- Site Visit Reminders
- Project Overview
- Project Scope
- Proposed Facilities
- Design Services
- Design Considerations
- Project Schedule and Cost
- Questions

Objective

- SAWWS is accepting Statements of Qualifications (SOQs) from firms to provide engineering services entailing planning, engineering evaluations, studies, reports, preliminary engineering, design, bid, construction, start-up/commissioning, and overall project management and coordination services for the design and construction of the Project
 - Reference Attachment I of the RFQ for Leon Creek WRC Hydraulic and Solids Improvements project charters and maps
- SAWWS anticipates awarding one (1) contract

Selection Process

- SOQs reviewed for responsiveness
- Technical Evaluation Committee scores qualification statements based on evaluation criteria published in the RFQ
- Good Faith Effort Plan will be evaluated and scored
- Selection Committee reviews scores and recommends firms
 - Interviews held, if necessary
- Negotiation with selected consultant
- Board Award

Selection Process

- If there is a change to key team members (prime or sub-consultant) identified on Respondent's organizational chart, notify SAWS in writing as soon as possible
 - SAWS may allow Respondent to replace the key team member with an alternate member who possesses equal or better qualifications and experience
- Per SAWS Ethics Policy, a former SAWS employee may not serve in a lead role as a key team member and/or participate in the negotiation of a contract for two (2) years after separating from SAWS
 - Failure to adhere may result in the Respondent's proposal being found non-responsive or a reduction in points during the technical scoring of the proposal

Evaluation Criteria

Criteria	Max Points
Team Experience and Qualifications	30
Similar Projects and Past Performance	25
Project Understanding and Approach	30
Small, Minority, and Woman-owned Business (SMWB) Participation	15
Total	100

Evaluation Criteria

Team Experience and Qualifications (30 pts)

1) Organizational Chart – 1 Page

- Include all key team members (including key sub-consultants)
 - Examples of Key Personnel include, but are not limited to, Project Manager (PM), QA/QC Lead, Technical Leads (treatment processes, hydraulic modeling, site/civil design, mechanical design, structural design, electrical design, I&C design, etc.), Permitting Lead, Constructability Lead, Lead Estimator
- Role and percentage of time each key team member will commit
 - Ensure all sub-consultants match those listed on the Good Faith Effort Plan

2) Resumes for Key Personnel Only (including any key sub-consultants if needed)

- 1-page resumes
- Project Manager's resume should be first
- Key personnel resumes should not include an exhaustive list of projects, but should focus on projects relevant to the scope of services within this RFQ

Evaluation Criteria

Team Experience and Qualifications (30 pts) (continued)

- 3) Describe composition of team (Prime, Key Subconsultants, and other Subconsultants), role and responsibility of proposed team members and teaming history. If proposed staff is not part of proposed Key Personnel, identify lead person from each firm and briefly describe their role.

- 4) Illustrate availability, percent of time committed for the duration of Project, of Respondent's Key Personnel as well as Key Personnel from Key Subconsultants. Include geographic location for each resource identified in the table.

Evaluation Criteria

Similar Projects and Past Performance (25 points)

- I) Identify 4 relevant projects, of similar size and scope to Scope of Services identified in RFQ that were completed within the last 15 years
 - Similar projects are considered those projects with similar scope and contract value
 - Technical Leads shall have participated in at least two (2) of the four (4) projects submitted. Other Key Personnel shall have participated in at least one (1) of the four (4) projects. A maximum of one (1) of four (4) project references can be provided by a Key Sub-consultant. Personnel from a Key Sub-consultant, identified as “Key Personnel” by the Respondent, should have participated in the one (1) project reference provided by the Key Sub-consultant. Ensure contact information for references is current
 - Use forms provided in RFQ
 - No additional narrative is required

Evaluation Criteria

Similar Projects and Past Performance (25 points) (continued)

2) Complete OPCC Table included in the Evaluation Criteria Forms

- Provide cost information for the four (4) completed projects submitted as part of bullet (1) above, as it relates to the accuracy of the OPCC, comparing the Engineer's 100% design estimate to approved construction contract awards
- No additional narrative is required

Evaluation Criteria

Project Understanding and Approach (30 points)

- 1) Provide a detailed approach based on the scope of the project 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
 - Narrative format

- 2) Provide a detailed project implementation (including design and construction) schedule listing the proposed tasks and their proposed durations. Assume a design start date of May 15, 2023 and construction completion date of January 2027
 - Narrative format

Evaluation Criteria

Project Understanding and Approach (30 points) (continued)

3) Respondents shall include:

- Understanding of project related issues and difficulties during the design phase of the project and solutions proposed
- Understanding of challenges associated with construction planning and sequencing to ensure the facility remains in operation and in compliance with current rules and regulations
- Understanding of coordination requirements with End Users and plant operators
- Understanding of the Project's permitting requirements and proposed path to secure all permits needed to complete the project in a timely manner
- Coordination with SAWWS staff (including plant operators, End Users, Engineering, Master Planning, etc.), other design consultants, and other contractors for projects under design or under construction at the Leon Creek WRC
- Discuss Respondent's approach for raising the visibility of the project and attracting qualified contractors to promote a competitive bidding environment

Evaluation Criteria

Project Understanding and Approach (30 points) (continued)

- 4) Project specific and unique QA/QC and risk management strategies that Respondent engages in similar projects.

Small, Minority, and Woman-owned Business (SMWB) Participation

- Scoring Method: 15 Points (by percentage) for meeting or exceeding the stated *mandatory* SMWB goal
 - 23% SWMB Goal
- Not meeting the mandatory goal = 0 SMWB Points. Points awarded on an all-or-nothing basis
- If the goal is not met, proof of outreach to SMWBs must be provided. If proof of outreach is not provided, disqualification may occur

Small, Minority, and Woman-owned Business (SMWB) Participation

- All firms in the organizational chart must also be listed in the Good Faith Effort Plan
- Local-area office in one of the following counties: Bexar, Comal, Guadalupe, Hays, Travis, or Williamson
- Must be “SBE” (including MBEs and WBEs) and need to be certified through the SCTRCA or Texas HUB
- Post-award, use of the S.P.U.R. System will be contractually required to report payments to all subconsultants, both SMWB and Non-SMWB

Questions related to the SMWB Program, completion of the Good Faith Effort Plan (GFEP), or SMWB scoring may be directed to the SMWB Program Manager until the RFQ is due. Her contact information is:

Marisol V. Robles

SMWB Program Manager

Contracting Department

Email: Marisol.Robles@saws.org

Submittal Deadline

- **Electronic submittals only**
- **Due by February 28, 2023, by 2:00 p.m. CST**
- Refer to RFQ for instructions to e-mail your submission
- Allow sufficient time to upload submittal ahead of the deadline to allow for any technical difficulties
- Respondents shall indicate **PS-00146, Leon Creek WRC Hydraulic & Solids Improvements**, date and time of the deadline clearly on both the electronic proposal file and email as noted in the RFQ
- Late responses will not be accepted and will not be opened

Submission Requirements

- File size limitation is 10 MB, and shall be no greater than **27** pages
- Submit proposal using Evaluation Criteria Forms, where indicated
- Use 8 ½ x 11 portrait format
- Thoroughly read the RFQ to become familiar with scope
 - Including the review of maps, charters, and scoping reports for each project
- Ensure references provided are valid and previously verified
- Similar Projects submitted should be of similar size, scope and contract value to the Scope of Services and Additional Requirements identified within the RFQ
 - Projects must be completed
 - Key staff on the org chart should ideally have worked on the example projects submitted

Submission Reminders (Cont.)

- Required forms do not count toward the page limit
 - Refer to the RFQ for definition of required forms
 - The cover page, cover letter and tabs do not count towards the page limit
- **27-page limit** includes the following:
 - Org Chart (1-page limit)
 - Resumes (6-page limit)
 - Composition of team (1-page limit)
 - Project approach (5-page limit)
 - Schedule (2-page limit)
 - Responses to questions (2-page limit)
 - Quality Management Plan (3-page limit)
 - Evaluation Criteria Forms (7-page limit)

Submission Reminders

- Be specific and avoid “boiler plate” responses where narrative is requested
- Contact the SMWB Program Manager for assistance, if necessary
- Perform QA/QC on proposal prior to submitting
- Reference the Solicitation Submittal Tips found on the SAWS website at the following link:

https://apps.saws.org/business_center/ContractSol/SNO_Drill.cfm?id=1980&View=Yes

Communication Restrictions

- Respondents or their representatives are prohibited from communicating with any City of San Antonio officials to include:
 - City Council members (as defined by the City of San Antonio Ethics Code)
 - City Council member’s staff, and
 - San Antonio Water System (SAWS) Board of Trustees regarding the RFQ from the time the solicitation is released until it has been acted upon by the Board of Trustees
- Respondents or their representatives are prohibited from communicating with SAWS employees regarding this RFQ, except as provided under “Technical Questions,” from the time the solicitation is released until the contract is awarded
- This includes “thank you” letters, phone calls, emails, and any contact that results in direct or indirect discussion of the RFQ and/or proposal submitted by Respondents

Communication Reminders

- If your firm has a contract with SAWWS already and needs to discuss that contract specifically, Respondent shall indicate such during the conversation they submitted for this RFQ
- This is in place from release of the RFQ to Board Award
- Violation of this provision by the Respondent and/or their agent may lead to disqualification of the Respondent's proposal from consideration

Site Visit Reminders

Firms must RSVP via email at florinda.gonzales@saws.org to attend the site visit no later than **February 8, 2023 at 2:00 p.m.** with the following information:

- Company name
- Name(s) of attendees
 - There is a limit of two (2) members per firm

COVID Questions

- No later than **9:00 a.m. on February 9, 2023**, each attendee shall email Florinda Gonzales at the above email address with responses to the following questions:
 - Are you experiencing any symptoms such as fever, cough, loss of taste or smell, or any other COVID-19 related symptoms?
 - Have you tested positive for COVID-19 in the past 14 days?
 - Have you been into close contact with anyone in the past two weeks that has tested positive for COVID-19?
- Attendees that answer yes to any of the above questions, shall not attend the Site Visit.
- It is recommended that attendees adhere to COVID safety protocols to include practicing social distancing, as well as wearing masks and safety eyewear as needed.

Site Visit Reminders (cont.)

- Site visit will be at the Leon Creek Water Recycling Center, **1104 Mauermann Road, 78224 at 11:00 a.m. (CST) on February 9, 2023**
 - It is expected to last no more than one (1) hour.
- Attendees will enter through the gate 15 minutes prior to the start of the Site Visit upon the Engineer's instructions.
- Questions will not be answered during the site visit and should be submitted in writing.
 - Attendees may take video, photos and notes.
- **Attendees must wear proper Personal Protective Equipment (PPE) during the Site Visit as there is ongoing construction projects at the site. This includes, but is not limited to hard hats, hearing protection, safety glasses, safety vests and steel-toed boots.**
- Attendees will be escorted by SAWS staff at all times, and shall not stray from the group.

Questions

- Must be submitted in writing by February 13, 2023, by 4:00 p.m. CST via e-mail to:

Florinda Gonzales, Contract Administrator

Contract Administration Department

San Antonio Water System

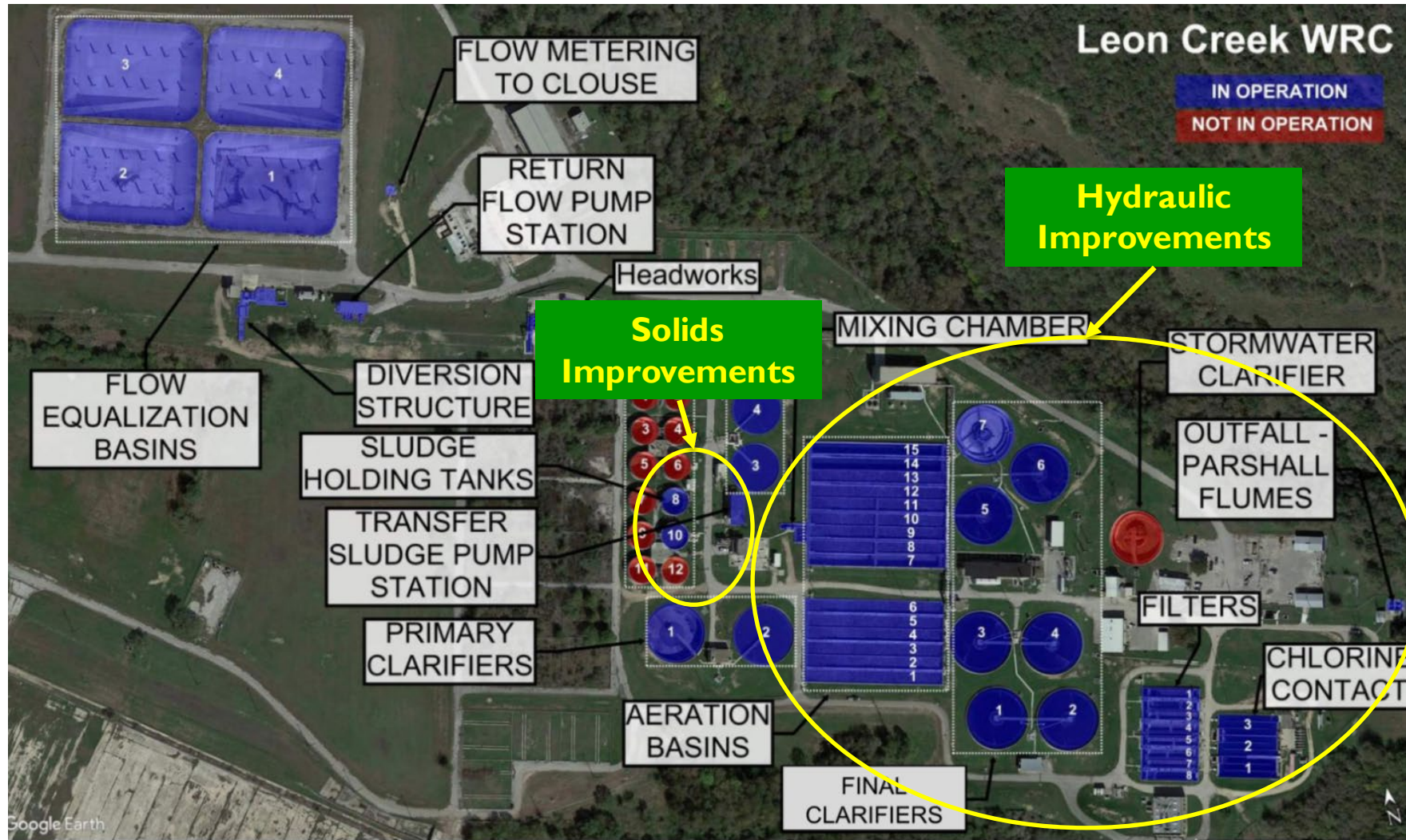
Florinda.Gonzales@saws.org

- Questions will be formally answered via Addendum posted by February 17, 2023, by 4:00 p.m. CST

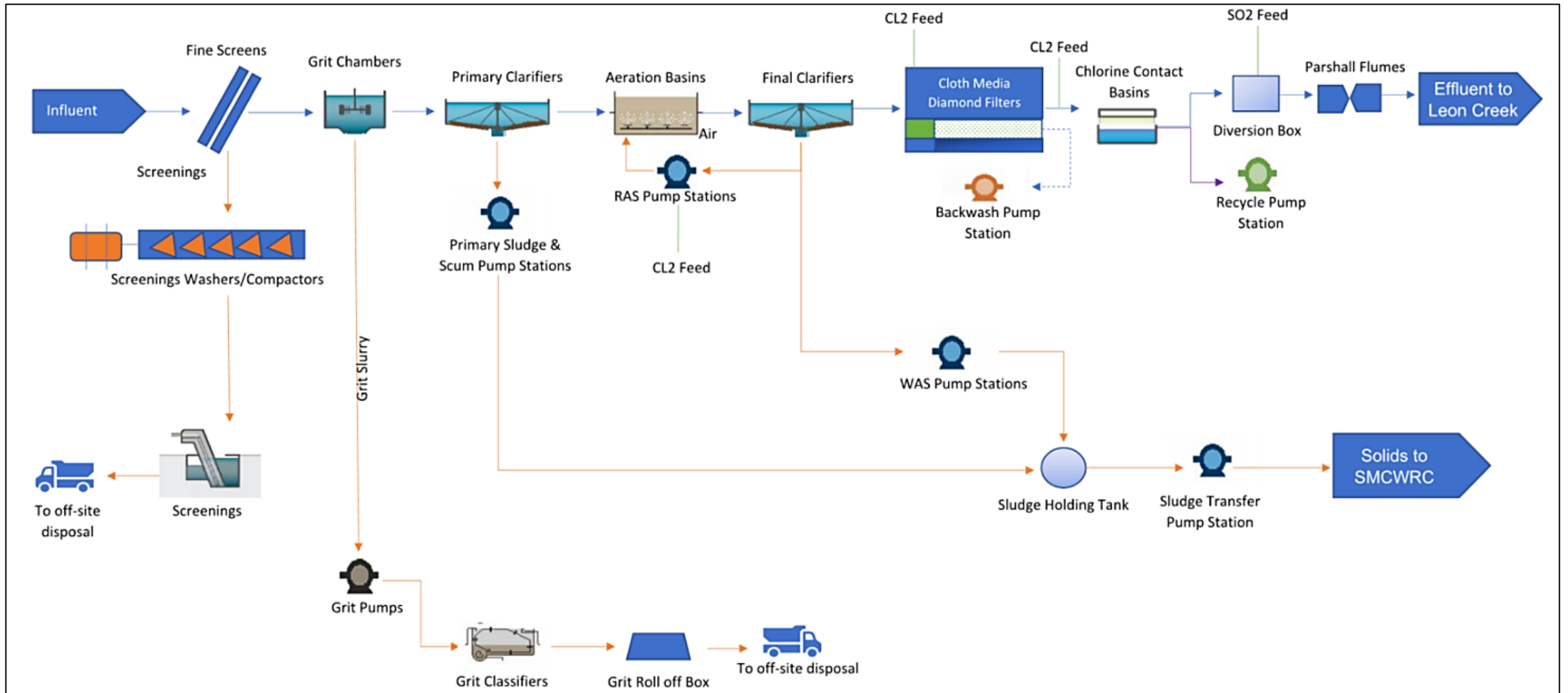
Project Overview

- Project is included in 2020 SAWS Wastewater Facilities Master Plan for Water Recycling Centers
 - Purpose of the hydraulic improvements is to increase the process and hydraulic capacity of the treatment units downstream of the aeration basins to the outfall
 - Purpose of the solids improvements is to address capacity and maintenance issues with the solids holding, mixing and transfer systems, and to minimize the deposits in the solids transfer (interconnect) lines between the Leon Creek WRC and the Steven M. Clouse WRC

Project Location – Leon Creek WRC



Plant Process Flow Diagram



Project Overview - Hydraulics

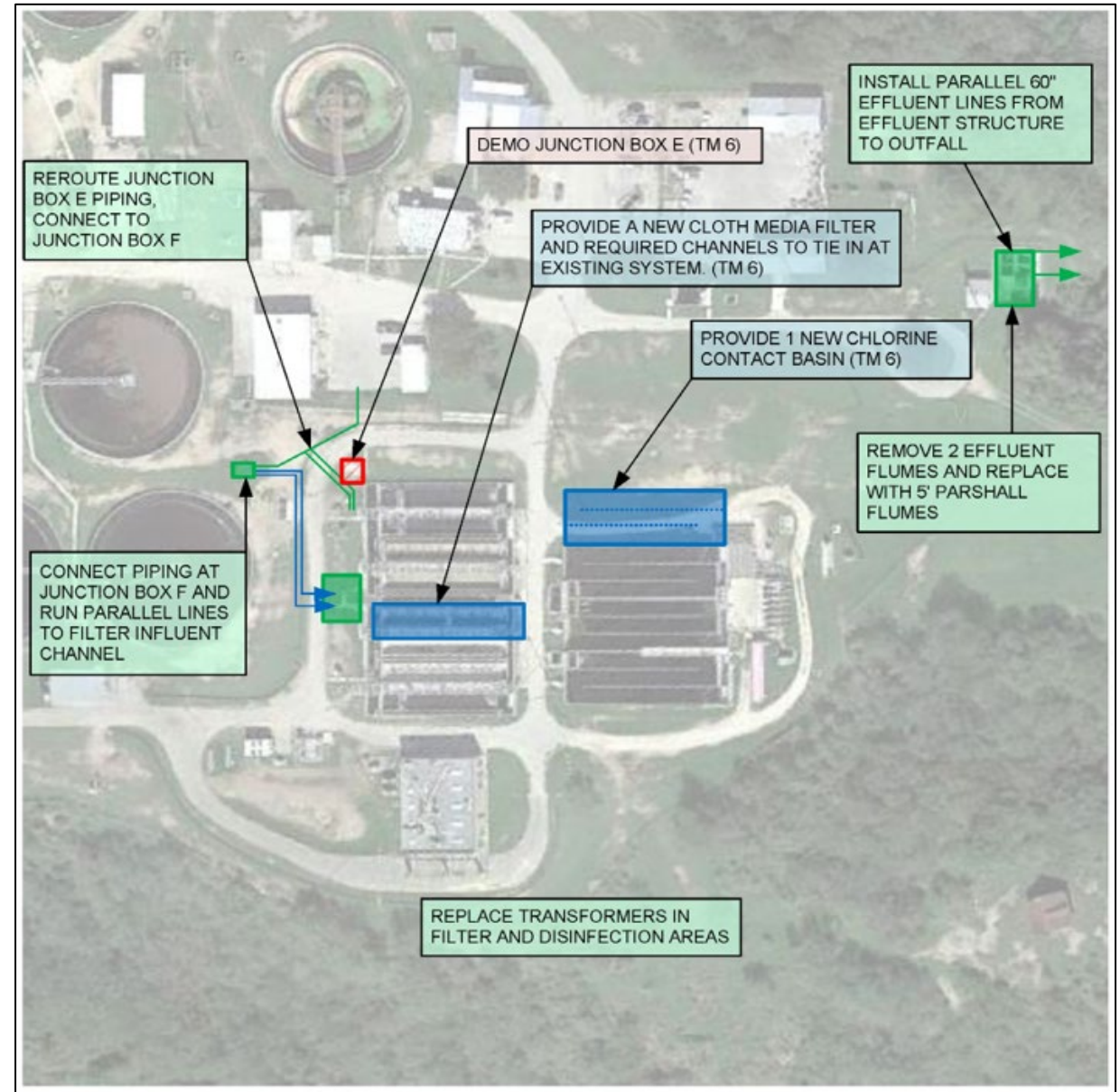
- Permitted capacity - 46 mgd on average / 92 mgd peak 2-hr
- Projected 2050 flows - 50 mgd average / 145 mgd peak 2-hr
- Historically, 10 to 12 mgd untreated flow diverted to Steven M. Clouse WRC
- No expansion is planned to handle projected peak flows; plan is to use FEBs for peak flow management

Project Overview - Hydraulics

- Master Plan determined hydraulic capacity of secondary treatment facilities is inadequate to pass 92 mgd peak flow
- Hydraulic modeling:
 - Aeration basin effluent weirs flooded in 20 to 30 MGD range with 6 final clarifiers and 12 aeration basins in operation
 - All effluent junction boxes breached freeboard requirements at peak flow
 - Even though collective capacity of the final clarifiers appeared adequate to handle peak flows, downstream piping network caused backflow to final clarifiers, raising WSE in final clarifier effluent troughs, reducing amount of flow final clarifiers could process without flooding weirs

Proposed Facilities

Preliminary design concept for hydraulic improvements, as included in 2020 WW Facilities Master Plan



Project Overview – Hydraulic Improvements Scope

- Verification of hydraulic models in secondary and tertiary treatment area; rectifying all hydraulic restrictions
- Hydraulic upgrades including, but not limited to, removal of Junction Box E, and installation of parallel pipes from Junction Box F to filter influent channel
- Rehabilitation of concrete, weirs, sludge collection mechanisms, and other ancillary equipment in final clarifiers
- Assessment of impacts of 100-yr flood plain on effluent structures

Project Overview – Hydraulic Improvements Scope

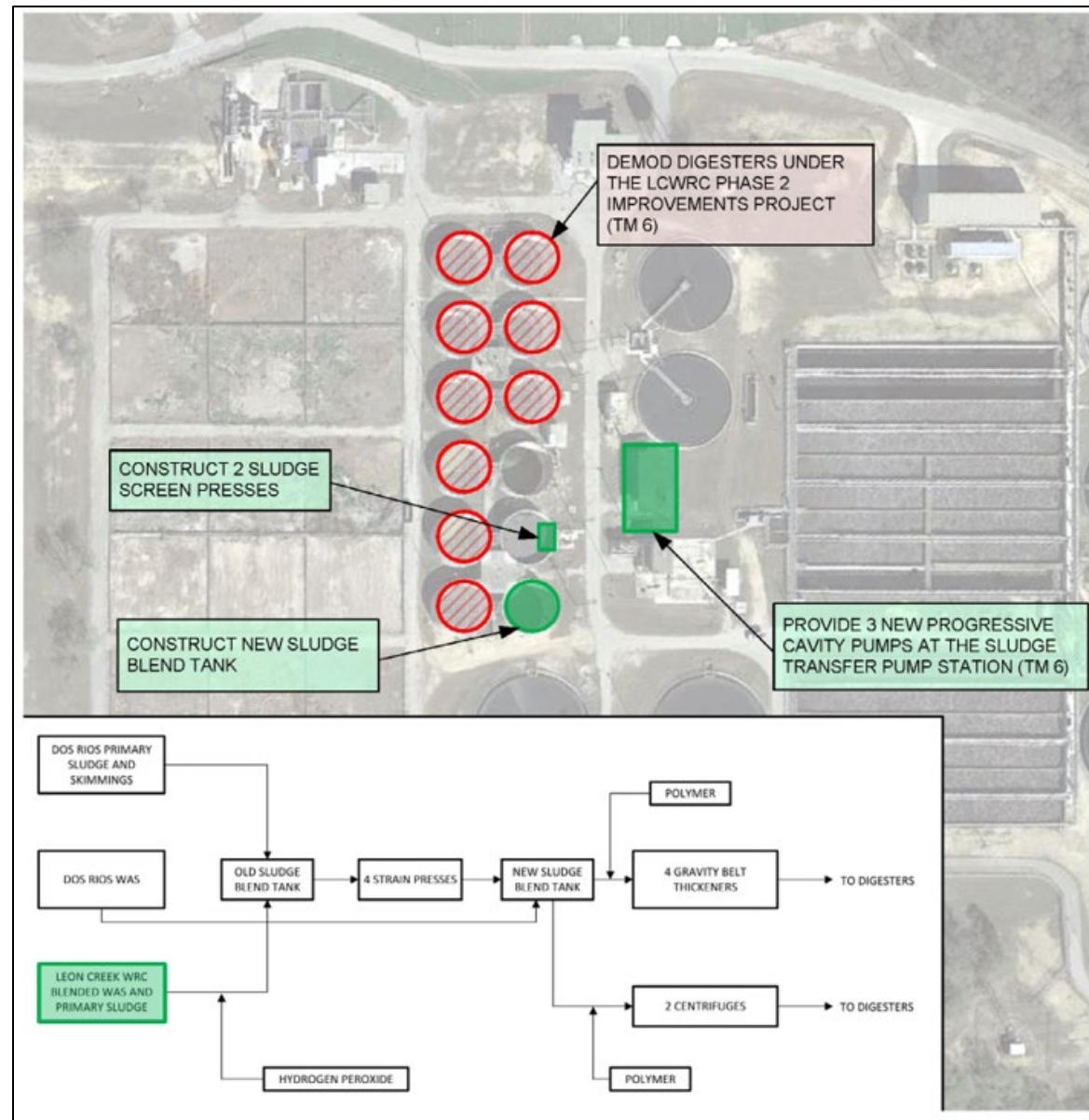
- Installation of a tertiary filter unit
- Installation of a chlorine contact basin and rehabilitation of concrete in existing chlorine contact basins
- Replacement of effluent flumes with larger flumes
- Installation of parallel 60-inch pipes from effluent structure to outfall
- Replacement of transformers in filtration and disinfection areas
- All associated site/civil, mechanical, structural, electrical, and I&C work

Project Overview – Solids Improvements Scope

- Solids (scum, primary sludge, and waste activated sludge) stored in 2 on-site holding tanks mixed by chopper pumps, and pumped from solids transfer pump station to Steven M. Clouse WRC via the two, parallel 10-inch lines (unscreened)
 - Holding tanks are old, and one of the mixing system is inoperable
 - Existing solids transfer pumps lack capacity to transfer projected volume of solids and are also not efficient due to age
 - Interconnect constructed in early 2000s and needs to be assessed for solids deposition over the years and whether it can handle future solids flow

Proposed Facilities

Preliminary design concept for solids improvements, as included in 2020 WW Facilities Master Plan



Project Overview – Solids Improvements Scope

- Condition and capacity assessment of existing solids holding tanks/mixing systems, and, as necessary, installation of a new sludge blend tank(s)/mixing system(s)
- Installation of strain presses
- New solids transfer pumps
- Condition and capacity assessment of interconnect pipeline
- Adequate levels of system automation, instrumentation, and controls to optimize process operation and performance
- Associated site/civil, mechanical, structural, electrical, I&C work

Design Services

- Selected Consultant will provide the following design services:
 - 30% Design
 - 60% Design
 - 90% Design
 - 100% Design / Bid Phase
 - Construction, As-builts, Closeout Phase
- Other services may include additional permitting and field investigations, equipment pre-purchase, commissioning and start-up, overall project management, and coordination

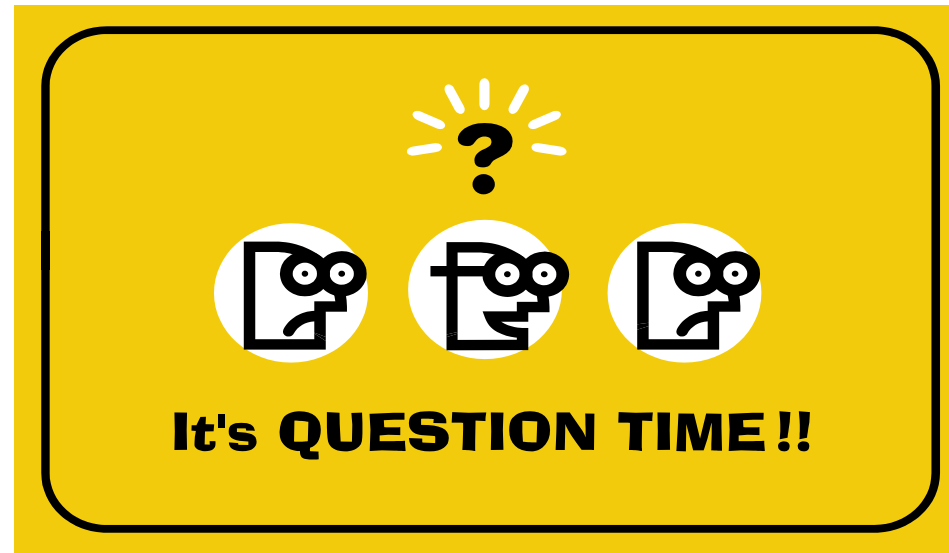
Design Considerations

- Hydraulic models from Master Plan, previous reports, studies and sampling/testing information will be made available to Selected Consultant
- RFQ includes solids projection tables from Master Plan
- RFQ includes tables showing component evaluation summary of areas included in this project and their core risk criticality classification
 - Risk classification is based on field evaluations performed in 2020
 - Design to consider addressing items included in these tables and other items as determined during design

Project Schedule and Cost

Event	Date
Design NTP	May 2023
Board Award Construction Contract	January 2025
Project Complete	January 2027

Project Cost Center	Cost Forecast
Construction	\$28,820,000



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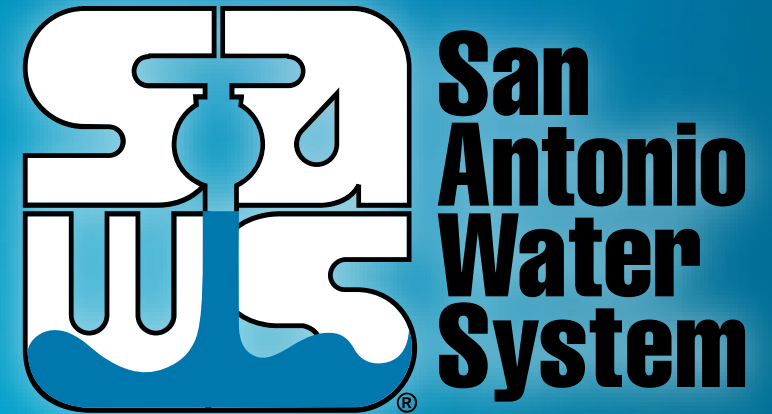
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