Front of Plant Mandatory Pre-SOQ Meeting

(available on website after meeting) May 1, 2017





Agenda – (everything in a little more detail)

- Introduction
- Front of Plant Project Overview
- Project Procurement Process
- Key Parts of the RFQ
- Early Focus Areas (Stage 1)
- Available Information
- Questions (Please ask along the way)



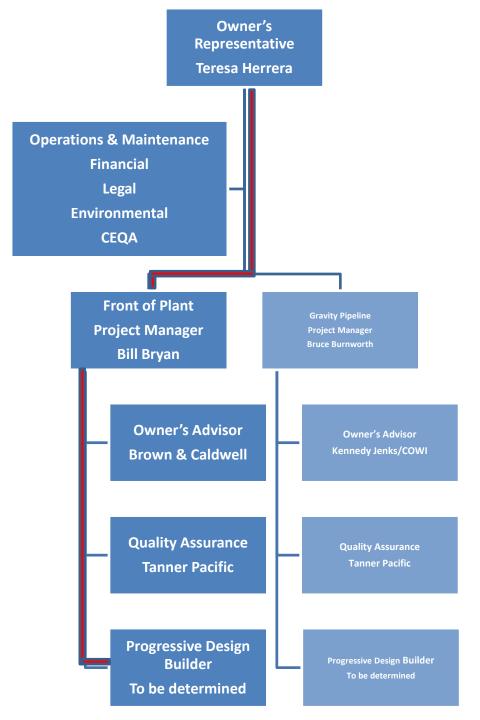


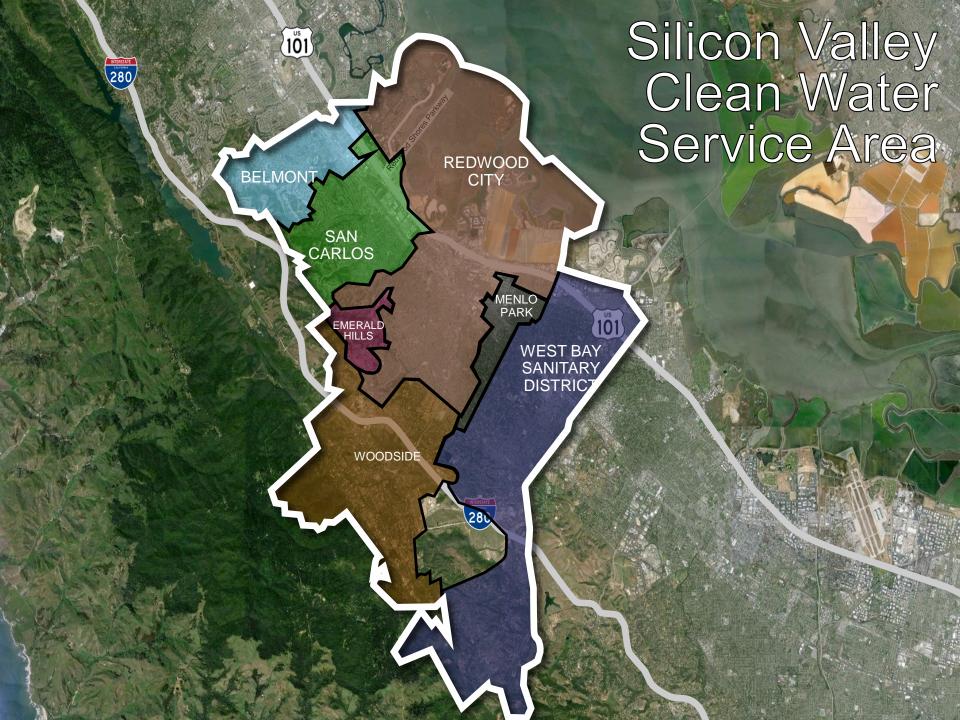
Progressive Design Build Organization Chart

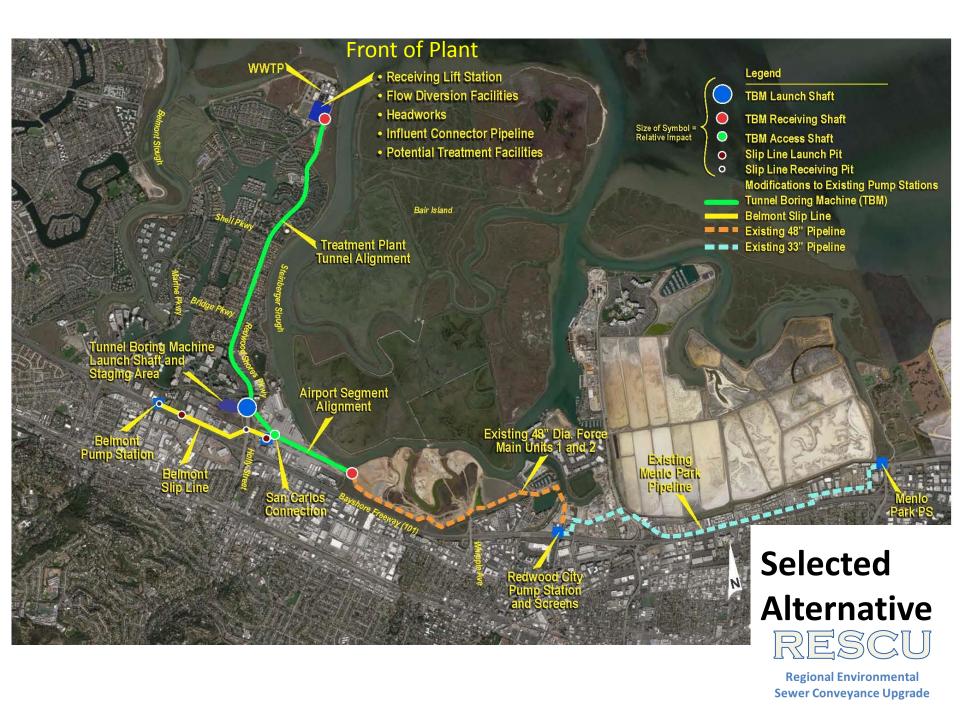


Regional Environmental Sewer Conveyance Upgrade









Front of Plant Project – Overview

- Background
- Project Elements
- Hydraulics (compressible and non compressible)
 - Diurnal and Seasonal Equalization
- Status of EIR, Permits and Easements
- Availability of SVCW Funding

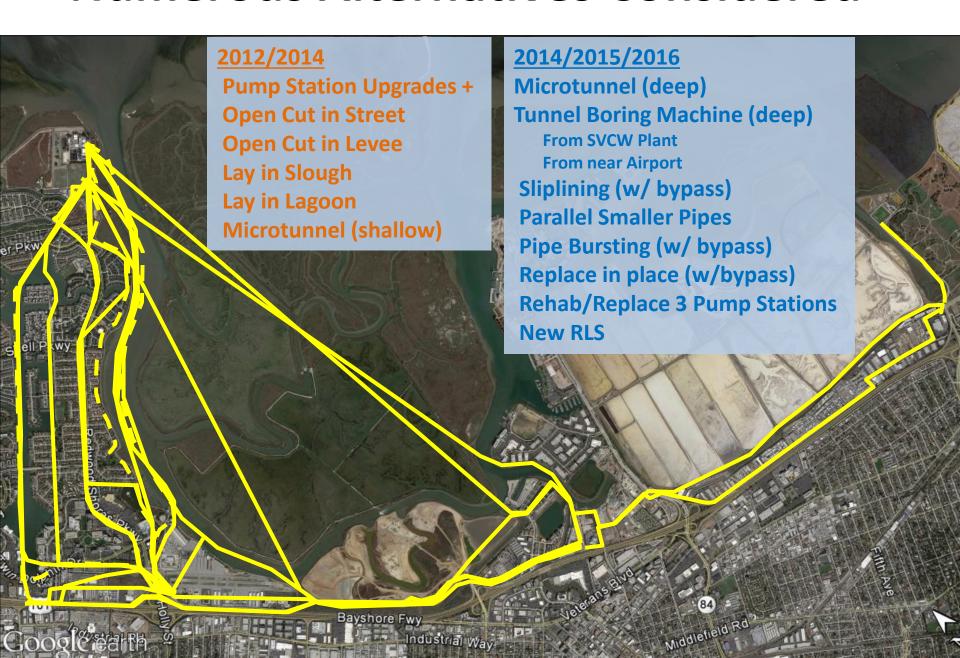


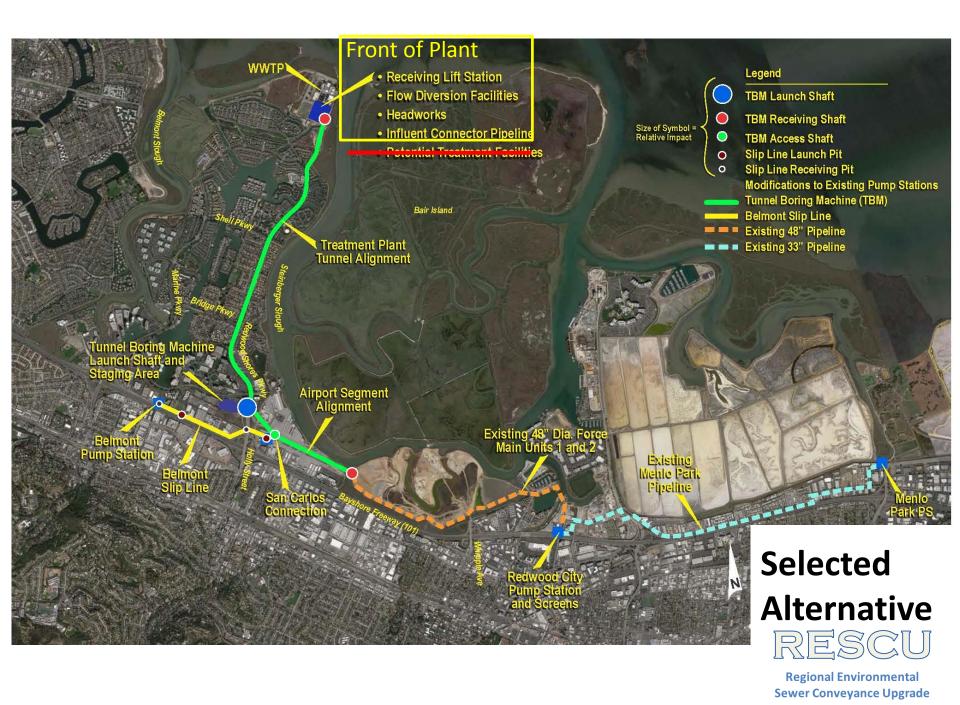


Problem we need to Solve

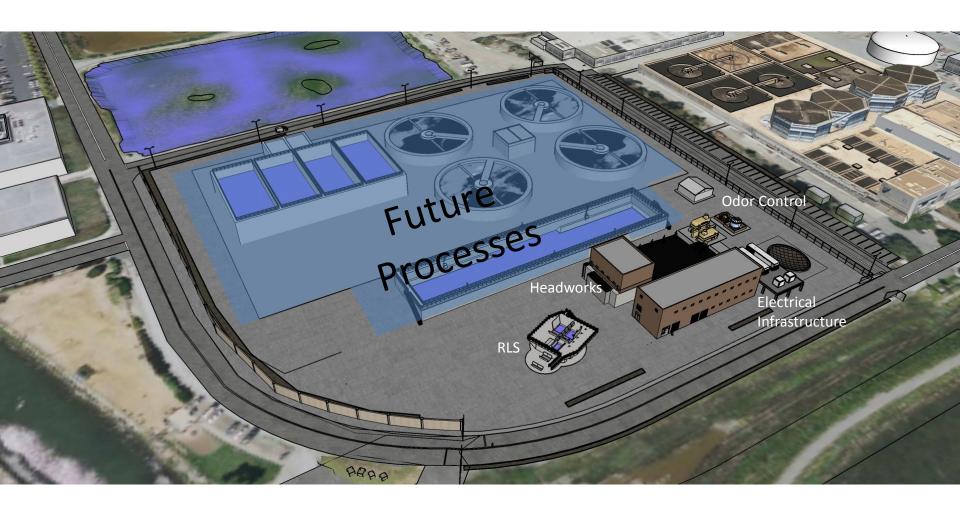
- 4 pump stations with a Booster Pump Station and Influent Lift Pumps
- ❖ Joints every 12' in RCP Force Main thru YBM
 - Design useful life = 25 to 50 years (ASCE; EPA)
 - Pipe is 45 years old
 - Currently operating at 2.5 times design pressure
 - 64 leaks so far; rate of failure is increasing
 - Leaks are time-consuming, disruptive and expensive to repair . . . potentially catastrophic.

Numerous Alternatives Considered





Front of Plant Facilities



PDB Team key to delivering RESCU Success Factors

"Success" - collaboratively implementing an appropriate balance of the following:

Cost: Provide a complete functional conveyance system that meets the goals of the Program at the <u>lowest practical</u> capital and lifecycle cost.

Operations: Produce projects that are **easy**, **efficient**, and **effective to operate**.

Maintenance: Produce projects that minimize required maintenance.

Safety: Implement projects that are <u>safe</u> to construct, operate, and maintain.

Schedule: Place new wastewater conveyance system projects into operation with best practical safe speed, while maintaining the present level of service with existing facilities.

Stakeholder Impacts: Solicit, evaluate, and respond to stakeholder's concerns, and implement a Program that <u>best meets</u> the combined needs of stakeholders while reaching the Program's goals.





Quality: Provide a FoP that will be sustainable over 50 years and will reliably receive, convey and wastewater flows ranging from 2 mgd to 103 mgd in full compliance with environmental requirements.

Cost: Provide complete functional facilities that meet the goals of the Project at the **lowest** practical capital and lifecycle cost. Provide early and ongoing cost predictability.

Schedule: Bring new facilities online as soon as practical so that the **existing failing pipeline** and pump stations can be taken out of operation as early as reasonably possible.

Risk: Generally assign to the Design-Builder the <u>risks that the Design-Builder can reasonably</u> <u>anticipate and control.</u> Assign to SVCW the risks that the Design-Builder cannot reasonably anticipate and control.

Safety: Implement an effective safety program incorporating **best practice industry practices**.

Accountability: Design-Builder to provide for a single point of accountability for performance of all services under Stage 1 and Stage 2. SVCW to provide a single point of accountability for all direction to the Design-Builder.

Collaboration: Implement an integrated design process that collaboratively includes SVCW management, engineering, operations and maintenance as well as the Design-Build contractor and engineer to develop a design that optimally achieves SVCW success factors and FoP requirements.

Innovation: Apply proven technology from other locations to uniquely achieve FoP goals.



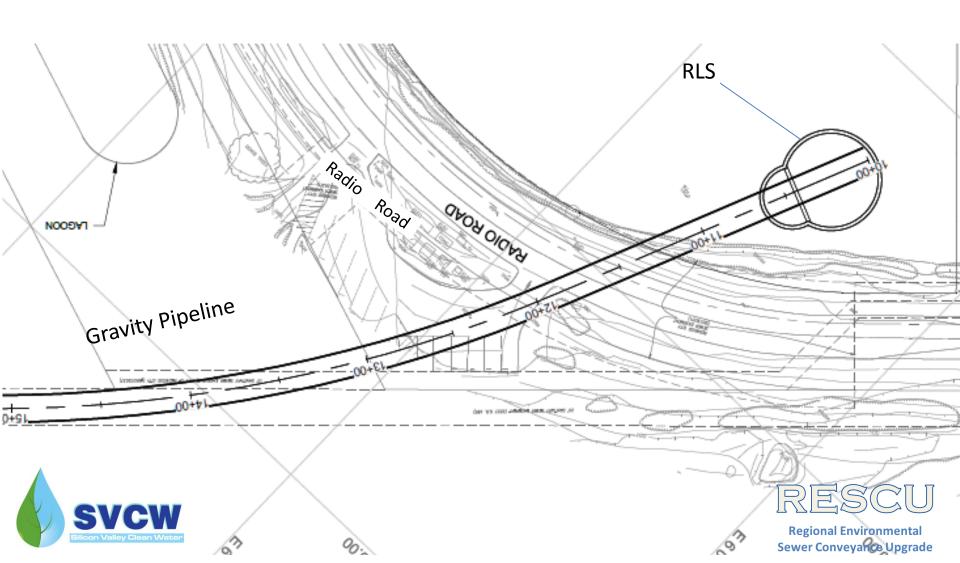


B

L A



Gravity Pipeline Entering FoP



Front of Plant Facilities

Receiving Lift Station







Front of Plant – Prep work 2017



- Lime stabilized area
- Roadway Improvements & Construction Fencing
- Grading & Stormwater Drainage





2017 Site Preparation Effort

- All of the Site Preparation completed under separate DBB in 2017/early 2018
- PDB entity must field verify site conditions
 - psf loading capabilities (crane mats piles for t cranes?)
- Electrical utilities are to be supplied by PDB entity





Current Project Concept

 SVCW will share the studies and alternatives developed to-date including project planning reports

 We expect to work collaboratively with the PDB during Stage 1 to refine, revise or change these concepts to best meet SVCW objectives





Design Progression during Preconstruction

Selected PDB Entity is encouraged to propose alternative designs

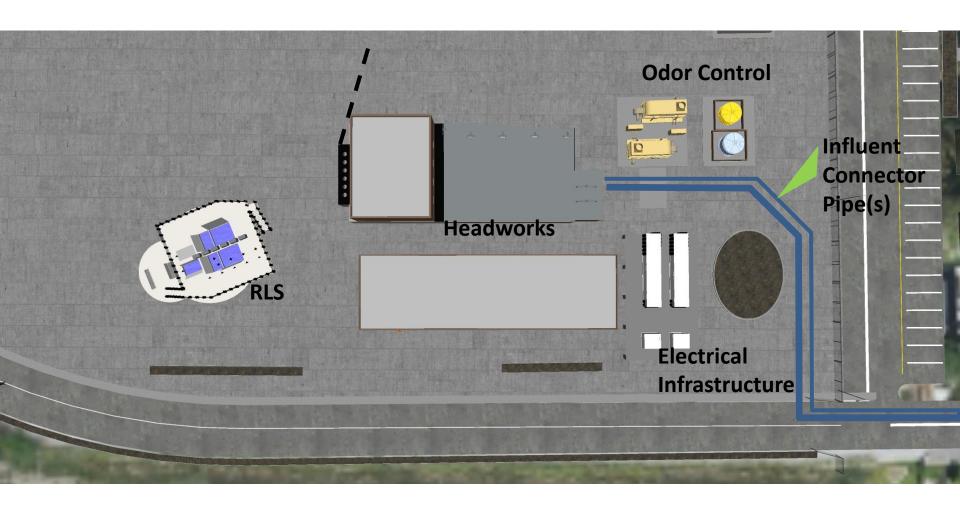
 Selected PDB Entity is encouraged to propose cost savings and optimization improvements

 Selected PDB Entity must develop collaborative relations with SVCW O&M





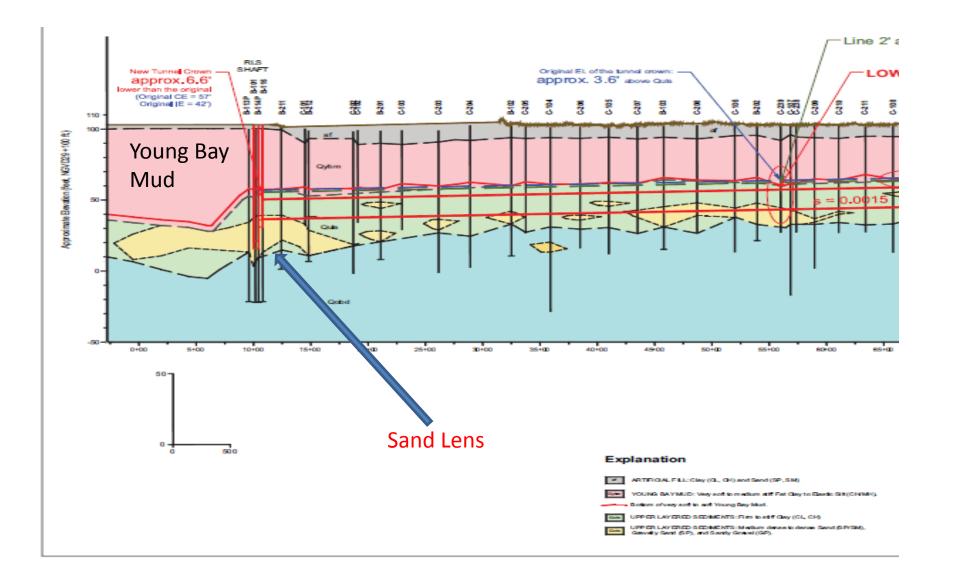
Front of Plant Facilities

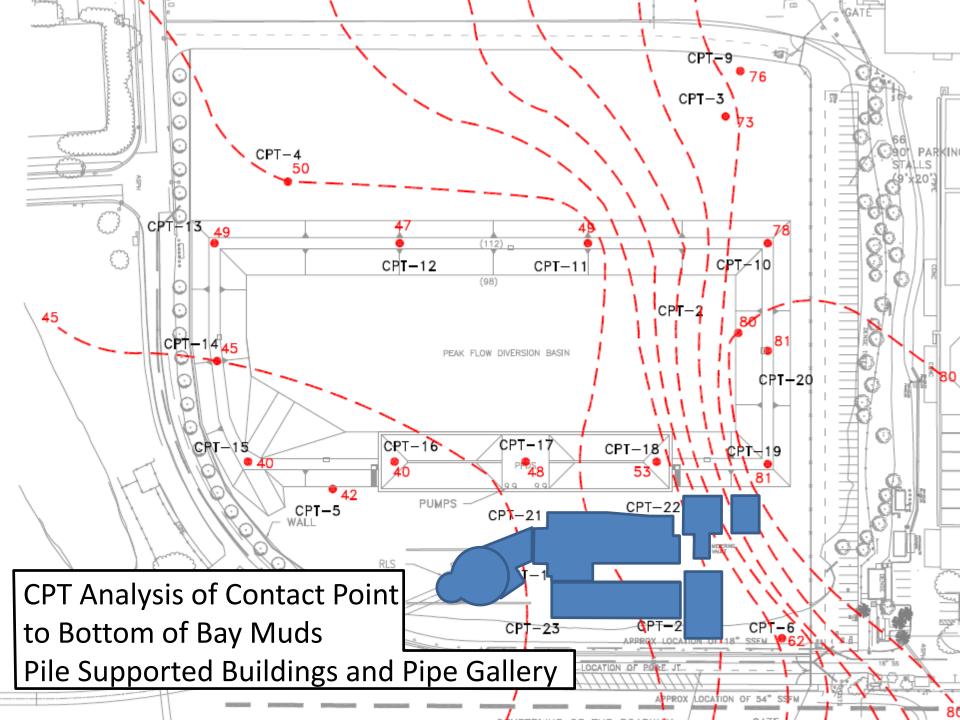




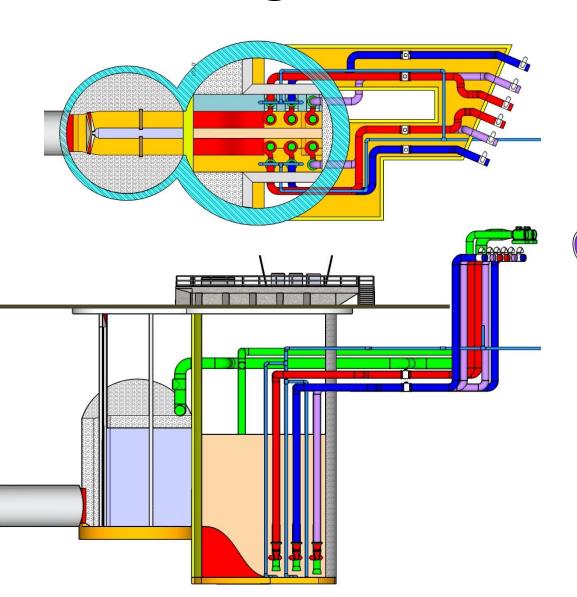


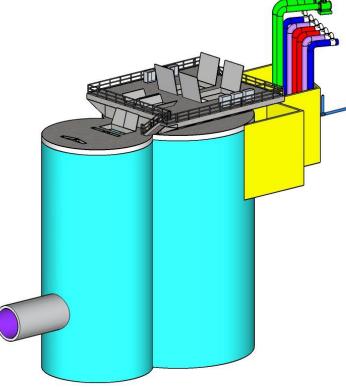
Geologic Profile





Receiving Lift Station

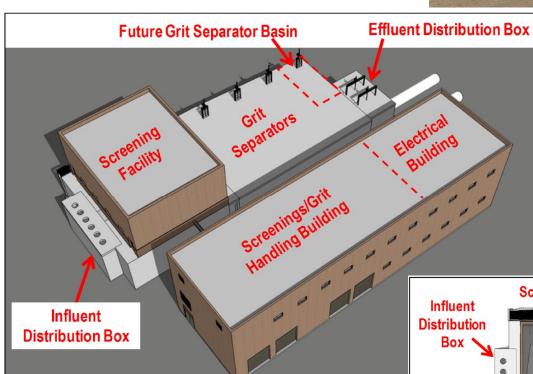




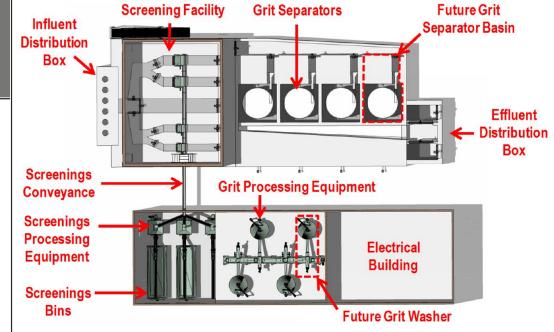
RESCU

Regional Environmental
Sewer Conveyance Upgrade

Headworks

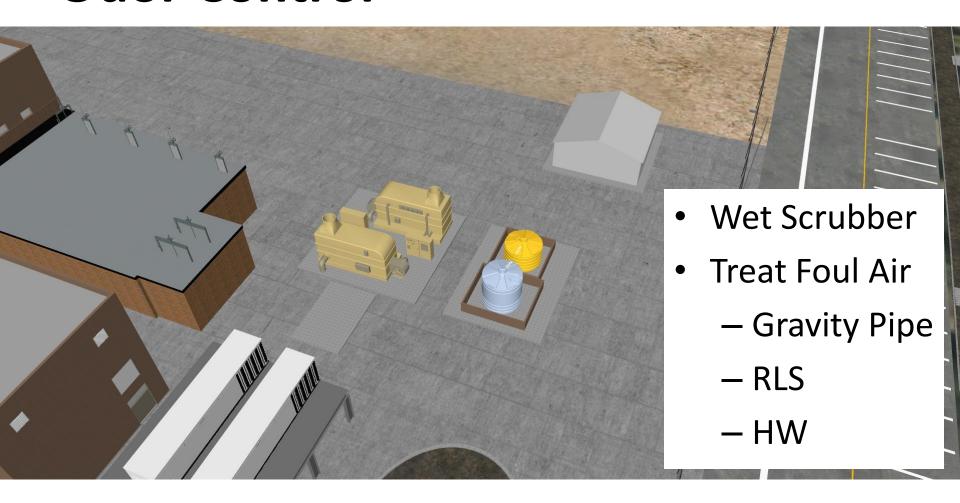








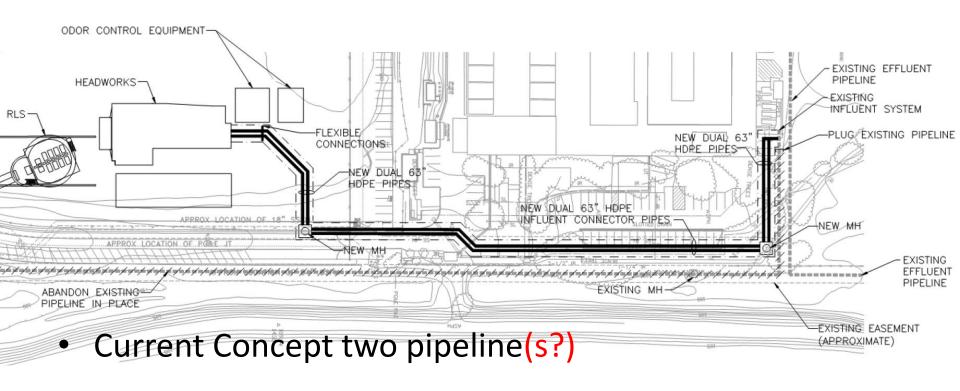
Odor Control







Influent Connection Pipe



- Dry weather flow Wet Weather Flow
- Length ~1,800 ft





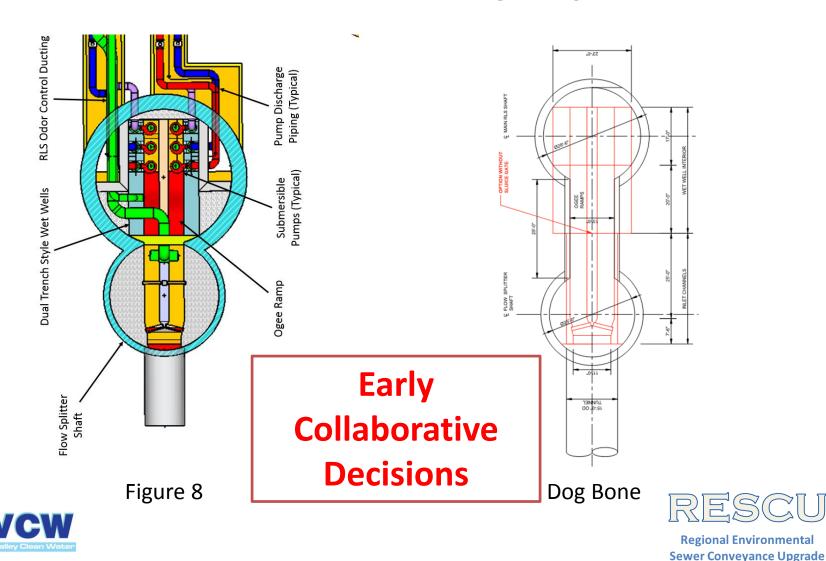
Focus Areas during early PDB Preconstruction Services (Stage 1)

- RLS shaft coordination with Gravity Pipeline
- Equipment configuration and sizing
- Hydraulic conditions-Lead by FoP team
- Final Diameter of Gravity Pipeline
- Shaft configuration, structural needs, construction timing and access
- Connection point to WWTP
- Early online use of Headworks
- Project cost and schedule





RLS shaft configuration— coordination with Gravity Pipeline



RLS Submersible Wet Wells

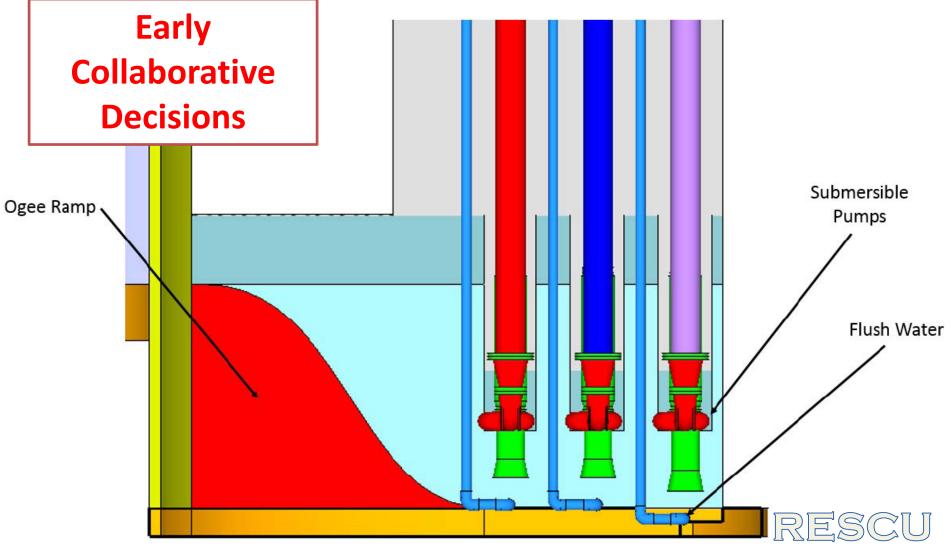


Figure 5-6. RLS wet well concept - section view

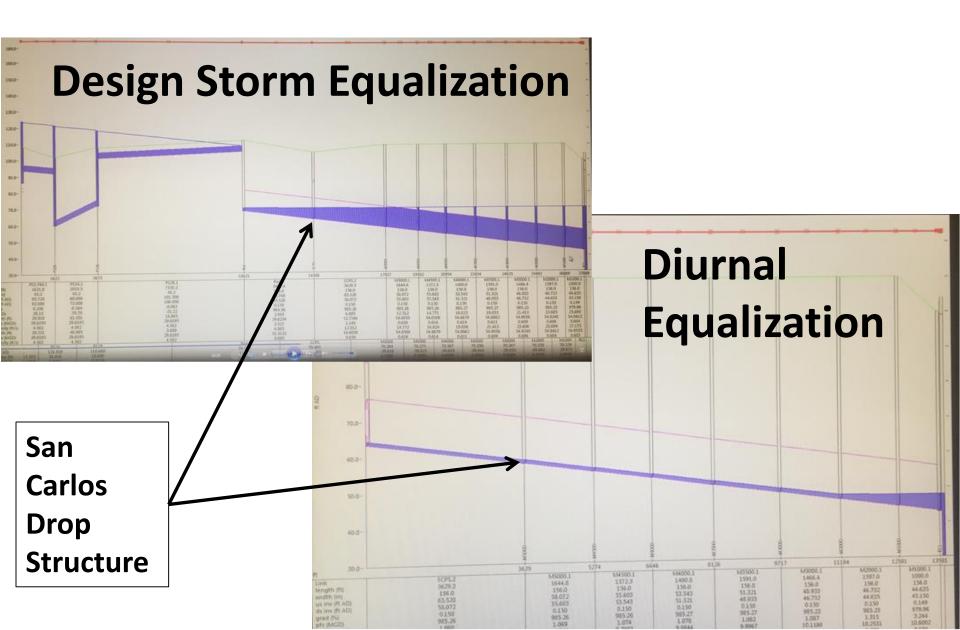
FoP Conceptual Flow Conditions

Flow Condition	Influent (mgd) Exist Future		Existing (mgd)	Future (mgd)
Average DWF	11.8	17.9	12-14	13-15
Peak DWF – hourly	22.5	33.9	22(1)	22(1)
Min DWF – hourly	2.7 (0?)	3+	10-12	10-13
PWWF (1) Wet well cleaning cyc	90+ le	103	80	80

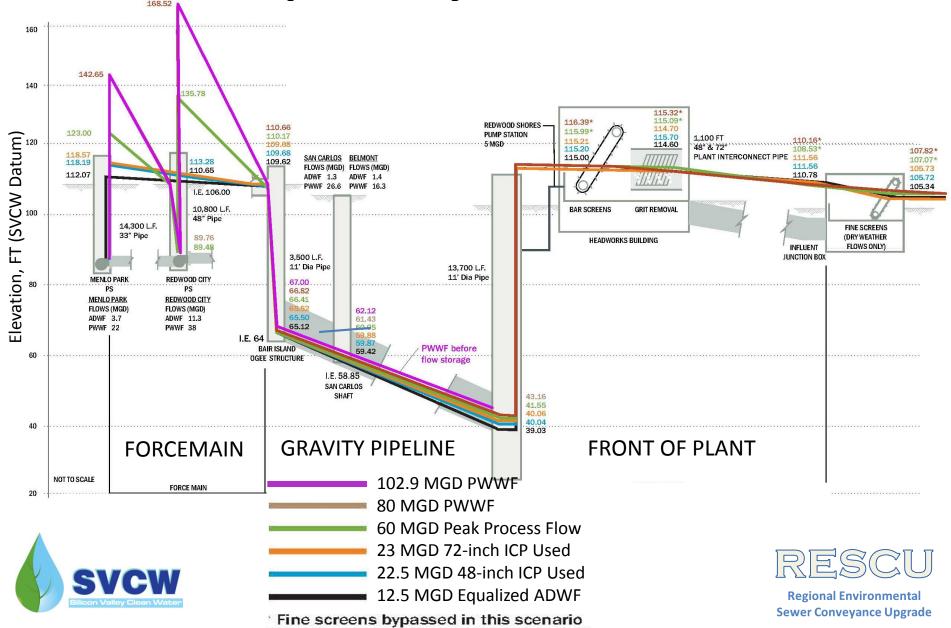
- Gravity Pipeline flow storage
 - Dry weather diurnal flows
 - Wet weather storage above RLS Capacity



Hydraulics



FoP Conceptual Hydraulic Gradeline



EIR Status

Adopted April 2017

Project Accepted April 2017

Available on SVCW website





Environmental Permits

- Environmental Permit Applications submitted December 2016
 - BCDC
 - California F&WS

- Expected October 2017
- SVCW anticipates obtaining the project Air Permit to construct





Funding

- SVCW has bonding capacity to obtain bonds for entire program
- SVCW is pursuing less expensive funding
 - SRF
 - WIFIA





PDB Roles and Responsibilities-1 of 2 Collaborate, complete, and timely delivery

Section 4.4 in RFQ

- Design and Construction Documents
- Hydraulic (A+W) modeling GP and FoP Project
- Augment geotech data and prepare GBR
- Supervise Project Team
- Obtain required governmental approvals and permits, unless acquired by SVCW
- Implement practices and activities to address environmental and permitting requirements

PDB Roles and Responsibilities-2 of 2 Collaborate, complete, and timely delivery

Section 4.4 in RFQ

- Maintain security of site
- Coordinate with utility providers
- Provide and implement Safety Plan, SWPPP and other plans as required
- Construct the FoP Project
- Perform system integration, programming, SCADA development using CID
- Conduct startup and commissioning, operational training, and Acceptance Testing (80mgd is hard)
- Implement and maintain all quality management and control requirements, including special inspections
- Allow continued existing WWTP operation at all times

Why Progressive Design Build

- Coordinate and faster completion of overall Project relative to DBB delivery
- Promote a cooperative and collaborative relationship between SVCW and the PDB team
- Incorporate ongoing cost modeling and take a "design-to-budget" approach
- Flexibility for <u>phased design and construction</u>
- Early and ongoing staff involvement and training





Procurement Process and Stages of Design-Build

- RFQ/RFP
- Stage 1/Stage 2 with Phases
- Schedule





Two Step Selection Process

- Step 1 Qualifications
 - RFQ issuance,
 - Pre-submittal meeting
 - SOQ Submittal
 - Reference checking
 - Interviews with selected Respondents
 - Shortlisting of three (or up to four) Respondents





Two Step Selection Process

- Step 2 Proposals
 - RFP issuance to short-listed Respondents,
 - Pre-Proposal Meeting
 - Confidential Meetings with each short-listed Respondent
 - Proposal Submittal
 - Reference checking
 - Interviews
 - Selection of winning Respondent
 - Negotiation of Progressive Design Build Contract





Stage 1/Stage 2 with Phases

- Stage 1
 - Collaboratively bring the design from a 5% to 10% level to a 60% to 70% level
 - Negotiate Stage 2 Contract Pricing and Schedule
- Stage 2
 - Final design (100%)
 - Construction
 - Testing and Start-up including 3-6 month co-operation of facilities.
- Construction Phases
 - As needed to move project forward





FoP Procurement Schedule

✓ Issue RFQ April 18

Last Day - Questions on RFQ May 12 — Midnight PDT

SOQ Submission
 May 23 before 2:00 P.M. PDT

Interview list
 June 6

Interviews June 13-14 (check addendum)

RFP Shortlist June 20

RFP Issued June 26

Proposals Due August 22

Stage 1 Approval October

Stage 1 NTP October or November

Stage 2 Approval Late 2018

Construction: Two to three years





Key Parts of the RFQ

- Project or RESCU Success Factors
 - A successful project is a balance of these
- Front of Plant Project Objectives
 - Collaboration and O and M involvement are key
- Availability and use of background information
 - SVCW Website Based
 - Planning reports and the EIR
 - Proposers should not be limited by the concepts shown
- Required elements of SOQ





Required Elements in SOQ

Section 8 - Format required in SOQ

- Transmittal letter
- Team Structure and Leadership, Experience Working Together and Design-Build
- Collaboration with Owners
- Design Experience and Qualifications
- Construction and Post-Construction Experience and Qualifications
- Appendices
 - A. Minimum Qualifying Criteria Pass/Fail
 - B. Minimum Qualifications and support documentation
 - C. Project Profiles
 - D. Resumes
 - E. Comments on Terms Sheet and Risk Allocation Matrix (opt)
 - F. Safety support documents- to be added by Addenda

SOQ Evaluation Criteria

- Responsiveness to RFQ Pass/Fail
- Minimum Qualifications Pass/Fail
- SOQ Scored Evaluation Criteria
 - Team Structure and Leadership, Experience
 Working Together, and D-B Experience
 - Collaboration with Owners and Owners' O&M
 - Relevant Design Qualification and Experience
 - Relevant Construction and Post-Construction Experience
 - Safety Experience on Similar Projects
- Reference Checks
- SOQ Interviews

100 points

20 points

20 points

25 points

25 points

10 points

25 points

100 Points





Attachment B: Design Builder Minimum Qualification Requirements Questionnaire

- 24 Questions
- DB Entity will be disqualified if the answer to any of the following questions is a "No", except as otherwise stated in the RFQ.





Team Structure and Leadership

- Team Leadership
- Interfacing with other projects
- Team organization and alignment of responsibilities
- Team continuity
- Experience working together
- DB experience
- Design office location and coordination of design team





Collaboration with Owners and Owners' O&M Staff

- Collaboration with Owners
- Collaborative decision making
- Coordination of design development and Operations planning
- O&M Staff training





Relevant Design Qualifications and Experience

- Design experience of firms
- Design experience of key personnel
- Geotechnical design experience
- Power supply, distribution, and electrical design experience
- Hydraulic analysis and (A+W) modeling experience
- Coordination of designs with inter-facing projects
- Design experience on DB projects
- Design using BIM
- Permitting and environmental compliance experience





Relevant Construction and Post Construction Experience

- Construction experience on similar projects
- Installation of electrical systems in highly corrosive environments
- Experience with deep lift stations
- Experience with pile supported foundations
- Coordination of construction with other inter-facing projects
- Integration of designers in construction
- Bypass planning and installation
- BIM during construction
- Environmental monitoring
- Startup, testing, and commissioning
- Acceptance testing





Safety Experience on Similar Projects

- Most recent 3 years of Workers' Compensation EMR and/or Experience Modification Factor and/or Severity DART rates
- 3 years history of items requested in the RFQ regarding safety, illnesses, citations, and worker's compensation experience
- Safety record on similar projects
- Overview of safety program
- Provide support documentation as an Appendix of the SOQ





Reference Checking

- Reference projects CONFIRM the contact information
- At least 5 and no more than 10 projects
- Follow the guidelines for types of projects to represent in your references





SOQ - Interviews

- Purpose: Meet teams and further assess qualifications
- Highest ranking SOQs will be invited to an SOQ interview (based on scoring)
- RFQ Interview will include:
 - Presentation
 - Q&A on SOQ and follow up
 - Live Scenario Exercise
- Uses same scoring system as SOQs





Comments on Draft Term Sheet

- Draft Term Sheet and Responsibility Matrix comments considered in preparing contract in RFP
- Comments welcome now and up to SOQ Submittal





Insurance

SVCW intends to obtain an Owner Controlled Insurance Program (OCIP) for the Project at SVCW's expense, including the following coverages:

- General Liability
- Excess Liability
- Builder's Risk
- Pollution Liability

Design-Builder will be required to enroll in the OCIP, if SVCW obtains an OCIP. In addition, Design-Builder will be required to carry the following insurance during all stages of the Project:

- Professional Liability
- Worker's Compensation (to be determined as part of pricing negotiation)





SOQ Confidentiality

- All SOQs will be kept confidential until recommendation for award of a contract is announced
- Financial statements will remain confidential





Available at SVCW.ORG

- Draft and Final EIR
- April 5th Outreach Presentation
- Today's Mandatory Pre-SOQ Presentation
- Sign in lists from Outreach and Pre-SOQ presentations
- Notice to Prospective Designers and Contractors
- List of Ineligible Firms and Required Firm
- Project Planning Reports-RLS, HW, ICP, Site Civil, FDS
 - Conceptual Designs
 - Geotechnical Data
 - Includes detailed cost estimates; capital and life cycle
 - Details currently known outstanding issues



Available at eBidboard

- RFQ Free registration using link from http://www.svcw.org/projects/SitePages/frontofplant.aspx
- Registration on eBidboard required to obtain addenda
- Addenda notifications sent to those registered on eBidboard





FoP RFQ is the formal procurement document for the project

This presentation is not part of the RFQ

 The RFQ (and any Addenda) take precedence over any differences between any presentations and the RFQ.







Questions on the RFQ

- Submit in writing via email: FrontofPlant@svcw.org
- Deadline May 12, 2017 Midnight PST
- Questions from today's meeting need to be submitted in writing via email for an official response.





Thank you for your attendance



