

Vendor Open House

Capital Improvement Program

November 4, 2015



Agenda

- Regional Wastewater Facility (RWF) Overview
- Capital Improvement Program (CIP) Overview

Overview of Packages & Project Highlights

Procurements

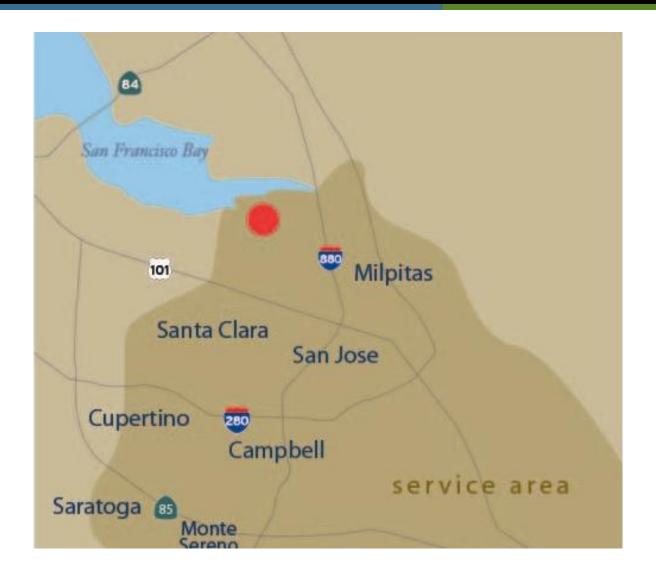
• Questions & Answers (Q&A)

RWF Overview

San José-Santa Clara Regional Wastewater Facility



Who We Serve



What We Do



Treat water to high standard

Deliver drought-proof water supply



Produce High-Quality Biosolids



Strive to be Energy Self-Sufficient



Use sustainable energy sources

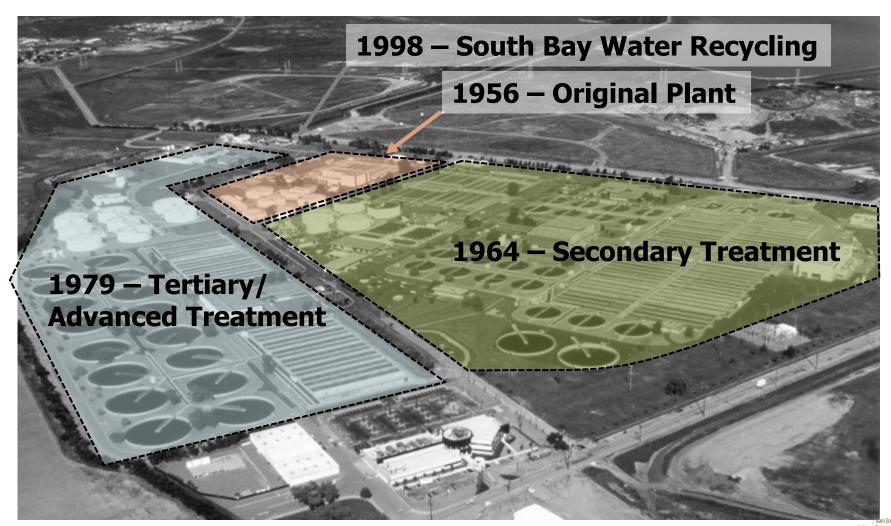
Produce sustainable energy sources



Foster a Thriving Ecosystem



History



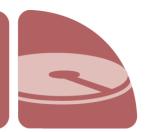
CIP Overview

Plan for the Future

Goals Plant Master Plan

operational

Result in a reliable, flexible Plant that can respond to changing conditions.



economical

Maximize economic benefits for customers through cost-effective options.



environmental

Improve habitat and minimize impacts to the local and global environment.

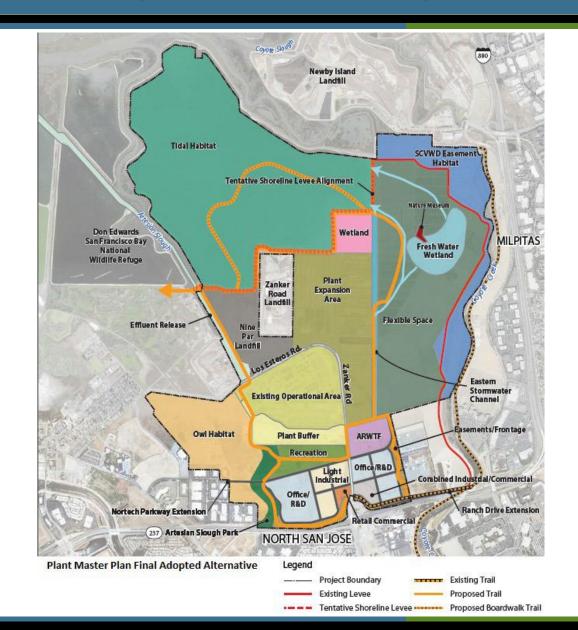


social

Maximize community benefits through improved aesthetics and recreational uses.



Future RWF Operational Footprint



Mission & Vision

CIP PROGRAM MISSION

Rebuild and revitalize the Regional Wastewater Facility and deliver the CIP on time and within budget.

CIP Program \$1.4B 10 YEAR 9 Plant-Wide Studies

50-100 6 Studies

50-100 CIP Program Staff City Departments Year-Old Infrastructure

1 Mission 1 Vision 1 Team

Sanitation Districts
Served

8 Cities Served 180 Acre Operational Area **2,600**Acre Site

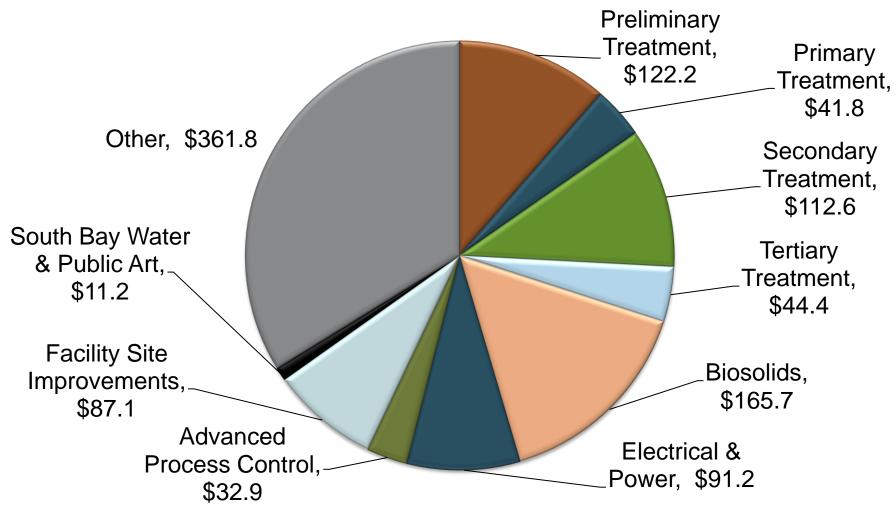
110 MGD Treated

1.4 M Residential Customers 17,000 Commercial Connections

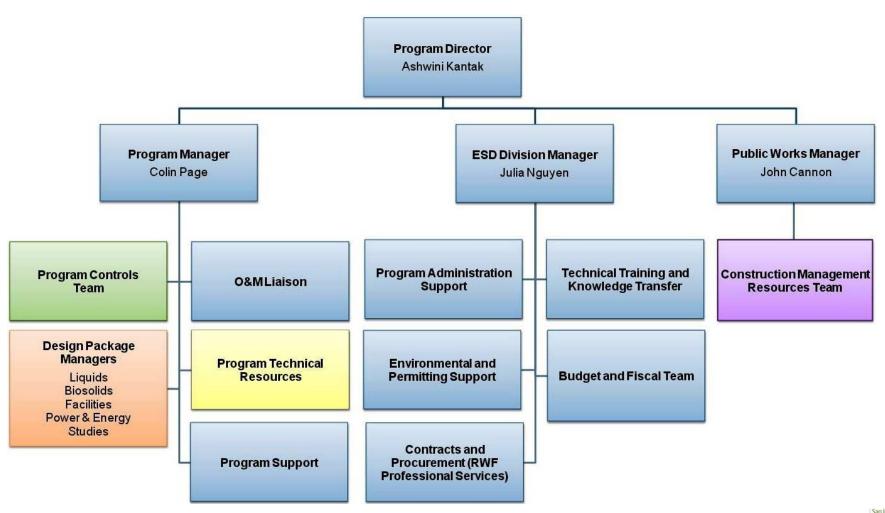
To deliver a world class facility that successfully serves the region.

CIP PROGRAM VISION

Adopted 5-Year CIP Budget (FY16-20): \$1.07B



Program Team Organization



Systems & Tools

Project Delivery Model (PDM)

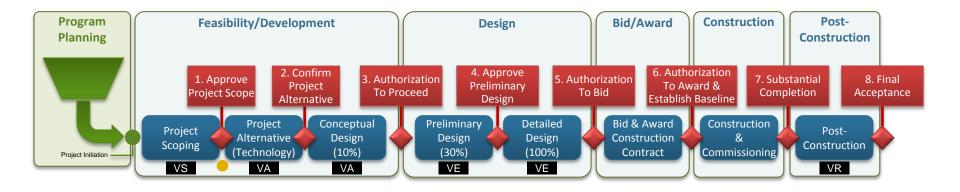
Primavera P6

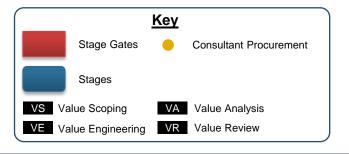
Online Document Management

Design Guidelines Library

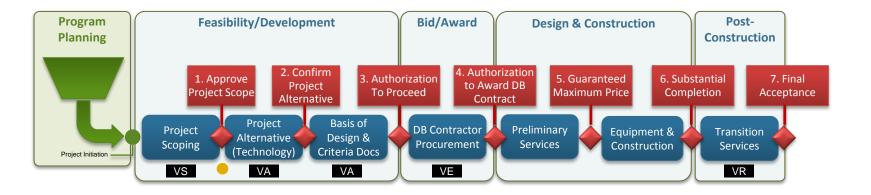
Templates

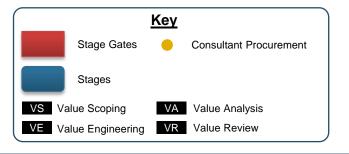
Design-Bid-Build PDM





Progressive Design-Build PDM





Recent Accomplishments

- December 2014: Odor Strategy adopted
- March 2015: Project Delivery & Procurement Strategy adopted
- June 2015: Biosolids Transition Strategy adopted
- June 2015: Ten-Year CIP Funding Strategy adopted
- 10 programmatic studies completed

Overview of Packages & Project Highlights

Liquids Package Overview

Bid & Award

Iron Salt Feed Station

Feasibility/Development

- Advanced Facility Control & Meter Replacement
- Aeration Tanks & Blower Rehabilitation
- Filter Rehabilitation
- Headworks Critical Improvements
- Headworks Improvements & New Headworks (design-build)
- Nitrification Clarifier Rehabilitation

Programmed

- East Primaries Rehabilitation, Seismic, Retrofit & Odor Control
- Secondary Clarifier Rehabilitation

Advanced Facility Control & Meter Replacement

- Consultant: To Be Procured
- Advertisement: October 2015 (Consultant RFQ)
 - Non-Mandatory Conference & Site Tour on Thursday, November 5
 - Statements of Qualifications due on Wednesday, November 18
- Estimated Construction Completion: 2021
- Estimated Total Cost: \$15M
- Scope:
 - Replace existing meters, valve actuators, transmitters and sensors
 - Upgrade process control equipment





Aeration Tanks & Blower Rehabilitation

- Consultant: To Be Procured
- Estimated Advertisement: December 2015 (Consultant RFQ)
- Estimated Construction Completion: 2024
- Estimated Total Cost: \$119M
- Scope:
 - Convert from coarse bubble diffusion to fine bubble diffusion
 - Rehab concrete
 - Replace corroded piping, valves, fittings & meters
 - Install/Update electrical blowers







* Note: Amounts & dates listed are subject to change.

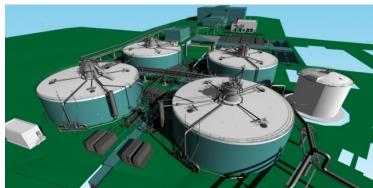
Biosolids Package Overview



Digester & Thickener Facilities Upgrade

- Consultant: Brown & Caldwell
- Estimated Advertisement: January 2016 (Construction Bids)
- Estimated Construction Completion: 2019
- Estimated Construction Cost: \$80M
- Scope:
 - Rehab 4 digesters
 - Convert to a temperature-phased anaerobic digestion (TPAD) process
 - Remove gas lines from tunnels
 - Add new flares





Digested Sludge Dewatering Facility

- Consultant: To Be Procured
- Estimated Advertisement: February 2016 (Consultant RFQ)
- Estimated Construction Completion: 2022
- Estimated Total Cost: \$70M
- Scope:
 - Evaluate technologies
 - Provide mechanical units, feed storage tank, chemical/polymer storage, dosage facilities, cake storage and conveyance systems in an odor-controlled building







Facilities Package Overview



Cogeneration Facility

- Consultant: Black & Veatch
- Design-Build Entity: Being Procured
- Estimated Construction Completion: 2018
- Estimated Construction Cost: \$65M
- Scope:
 - Install internal combustion engines
 - Provide a digester gas treatment system, boilers, control & monitoring system, electrical switchgear & various appurtenances

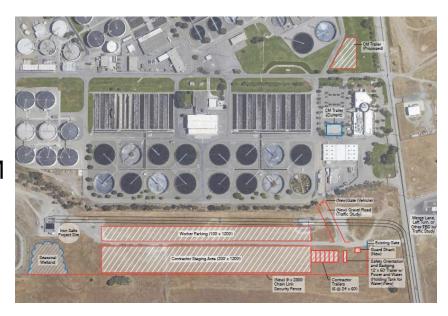






Construction-Enabling Improvements

- Consultant: GHD (electrical only)
- Estimated Advertisement: January 2016 (Construction Bids)
- Estimated Construction Completion: 2016
- Estimated Construction Cost: \$2.8M
- Scope:
 - Improve access points to/from RWF operational area
 - Enhance security features & systems
 - Provide parking for future construction worker parking & construction management



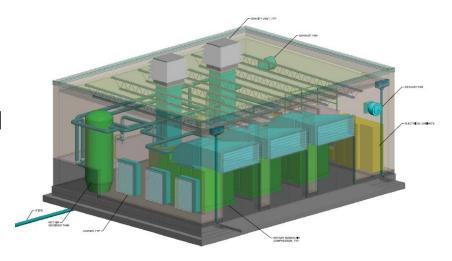


Power & Energy Package Overview



Plant Instrument Air System Upgrade

- Consultant: CH2M Hill
- Estimated Advertisement: May 2016 (Construction Bids)
- Estimated Construction Completion: 2018
- Estimated Construction Cost: \$2.5M
- Scope:
 - Replace existing high-pressure air supply system used to control pneumatic controls in two buildings with an above-grade distributed air supply system
 - Upgrade electrical system to provide power & redundancy improvements



Procurements

Upcoming Procurements

2 Request for Bids

- Digester & Thickener Facilities Upgrade (contractors must have been pre-qualified in October)
- Construction-Enabling Improvements
- 5 Project-Specific Requests for Qualifications
 - Goal is to have 1 consultant throughout the life of a project
 - Scope of services will vary based on delivery method
 - 2 project-specific RFQs currently posted on <u>BidSync</u>

4 Program-Level Requests for Qualifications

- Audit Services
- Construction Management Services
- System Integration Services
- Value Engineering & Peer Review Services

Additional Information

- BidSync www.bidsync.com
- CIP Document Library www.sjenvironment.org/cip
- San José-Santa Clara Regional Wastewater Facility
 - www.sjenvironment.org/rwf

BidSync

www.bidsync.com

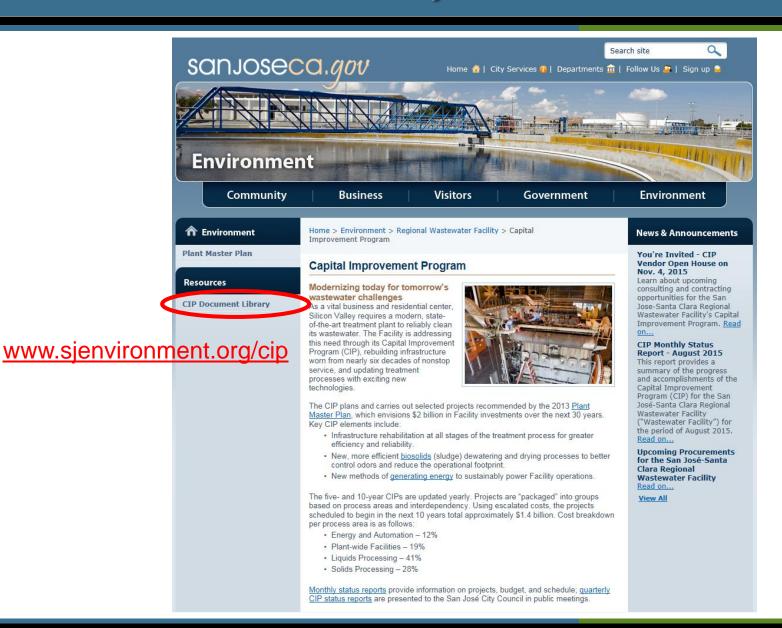


- Send additional questions to John Cannon (john.cannon@sanjoseca.gov)
- When procurements come out, the cone of silence comes down.



Source: http://thingsthatmadeanimpression.wordpress.com/2013/12/14/dialogue-from-get-smart-mr-big-cone-of-silence/

CIP Document Library



Q&A



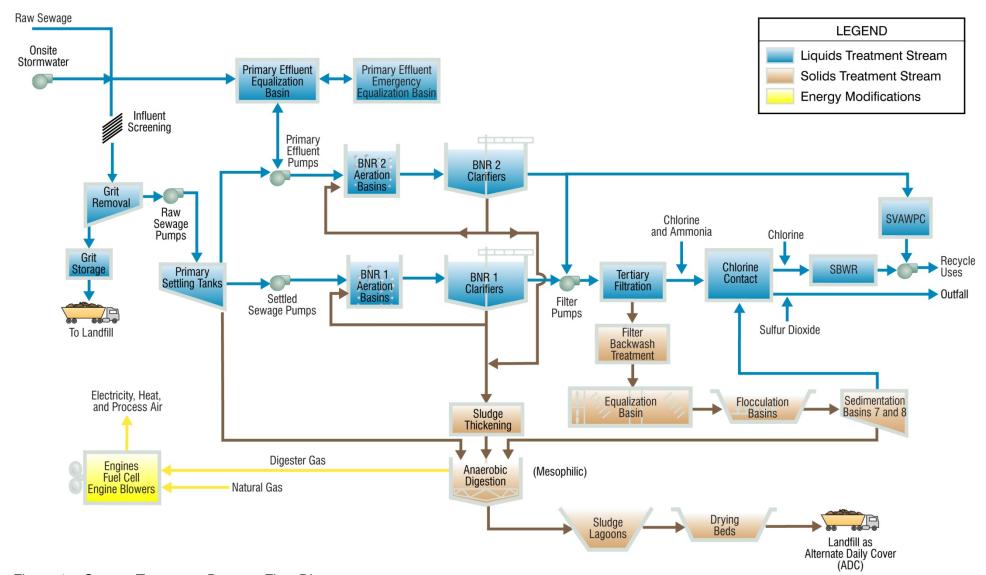


Figure 1 – Current Treatment Process Flow Diagram



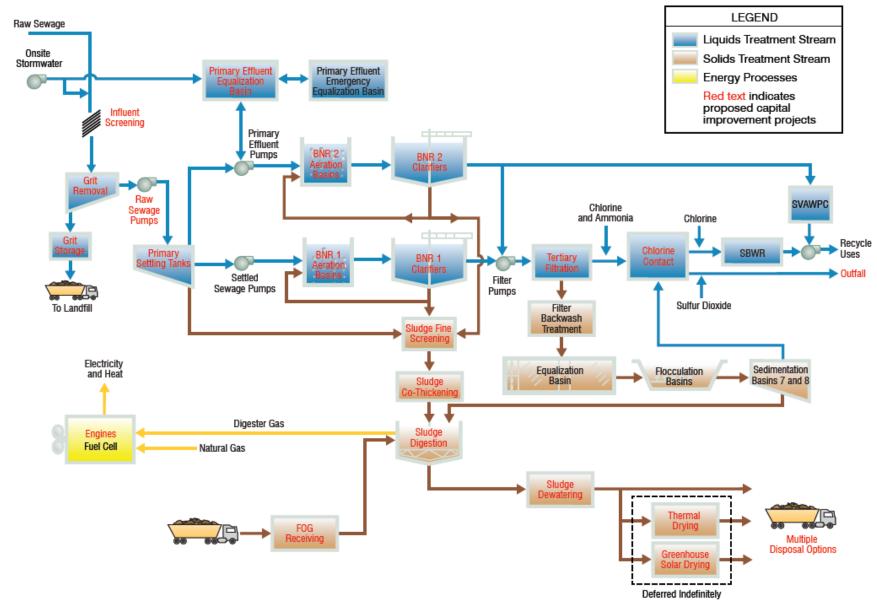


Figure 2 – Proposed Treatment Process Flow Diagram



Capital Improvement Program Upcoming Procurements

The San José-Santa Clara Regional Wastewater Facility's (RWF) Capital Improvement Program (CIP) is rebuilding and modernizing the RWF. The CIP envisions an investment of approximately \$1.5 billion in the first 10 years, with an approximate total investment of \$2.1 billion over the next 30 years. The CIP is the largest current public works project in the South Bay.

The City of San José has consolidated all procurement solicitations to post on BidSync (https://www.bidsync.com/). All bid documents, questions and answers, addenda, and results will be available electronically during the procurement process. Interested firms must register on BidSync to receive notifications when procurements are posted.

Construction Bid Opportunities

Project Name	Description	Anticipated Advertisement*	Construction Estimate**
Construction-Enabling Improvements	This project will provide infrastructure to support increased CIP construction activity across the RWF site, including access improvements, security, worker parking, contractor trailer space, staging areas and space for future construction management staff.	January 2016	\$2.8 million
Digester & Thickener Facilities Upgrade	This project will upgrade four existing digesters to include new covers, mixing systems, and heat exchangers. Will modify low-pressure digester gas piping system and dissolved air flotation thickeners to co-thicken combined primary and waste-activated sludge, incorporate odor control; build sludge screening facility and flare system; rehabilitate existing flare system.	January 2016	\$80.0 million

^{*}All dates listed are estimates that are subject to change.

Professional Services Opportunities

Procurement Name	Procurement Name Description		Total Project Estimate**
Engineering Services for Nitrification Clarifiers Rehabilitation	The selected consultant will provide design services and engineering services during construction to implement modifications to improve performance of 16 nitrification clarifiers, focusing on mechanical, structural, and electrical rehabilitation.	September 2015	\$50.5 million
Engineering Services for Advanced Facility Control & Meter Replacement	The selected consultant will provide design services and engineering services during construction to replace or upgrade flow meters, valve actuators, and process indicators throughout the RWF.	October 2015	\$15.0 million
Value Engineering & Peer Review Services for Various CIP Projects The selected consultants will provide as-needed value engineering and peer review services for various capital projects to identify and present alternatives for improving project value and provide quality assurance/control reviews to ensure designs adhere to industry standards and applicable codes.		November 2015	Not Applicable

^{**}The planning-level estimates shown are subject to change.



Capital Improvement Program Upcoming Procurements

Professional Services Opportunities

Procurement Name Description		Anticipated Advertisement*	Total Project Estimate**
Engineering Services for Aeration Tanks & Blower Rehabilitation	The selected consultant will provide design services and engineering services during construction to rehabilitate and construct improvements within two secondary treatment processes, secondary and nitrification, to ensure continued operation and adequate aeration for treatment.	December 2015	\$119.3 million
Construction Management Services for Various CIP Projects	The selected consultants will provide as-needed construction management and inspection services for various capital projects. Services may include constructability reviews, document management, submittal and RFI management, schedule analysis, progress payment evaluation, change order request analysis, field inspections, safety and environmental monitoring, and commissioning and start-up support.	December 2015	Not Applicable
Audit Services for Various CIP Projects	The selected consultant will provide as-needed audit services for the various capital projects. Services may include financial, compliance, operational, investigative, or follow-up audits for design-build contracts, consultant agreements, and program processes.	December 2015	Not Applicable
Distributed Control System Integration Services for Various CIP Projects The selected consultant will upgrade the existing Distributed Control System (DCS) Controllers to the new ABB HPC800 controller on 800xA platform, and provide as-needed DCS programming support for various CIP projects.		January 2016	Not Applicable
Owner's Representative & Construction Management Services for Digested Sludge Dewatering Facility	The selected consultant will provide owner's representative and construction management services for a new facility that will mechanically dewater 100 percent of the RWF's digested sludge to replace the existing sludge storage lagoons and open air solar drying beds.	February 2016	\$69.7 million
Engineering Services for Support Building Improvements	The selected consultant will provide design services and engineering services during construction for fire life safety improvements and existing building HVAC improvements, as well as master planning services for a new central warehouse.	March 2016	\$54.7 million

^{*}All dates listed are estimates that are subject to change.

^{**}The planning-level estimates shown are subject to change.

Capital Improvement Program Attendee List



Meeting Information:

11/4/2015

Meeting Name: Vendor Open House

Date: Wednesday, November 4, 2015 **Time:** 1:30 p.m. – 4:30 p.m.

Location: Administration Building, 700 Los Esteros Road, San José, CA 95134

#	Company	First Name	Last Name	Email Address
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5	AECOM	Casper	van Keppel	casper.vankeppel@aecom.com
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8	Anderson Pacific Engineering Construction, Inc.	Justin	Chow	jchow@andpac.com
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11	BioMaAS, Inc.	Kimberly	Craighead	kimberly.a.craighead@gmail.com
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26	Environmental Science Associates	Meryka	Dirks	mdirks@esassoc.com
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38	HDR Engineering, Inc.	Linc	То	linc.to@hdrinc.com
39	HydroScience Engineers, Inc.	Abraham	Philip	aphilip@hydroscience.com
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54	MIG/TRA	Barbara	Beard	bbeard@migcom.com
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59	Overaa Construction	Ben	Brown	benb@overaa.com
60	P&F Distributors	Thomas	Vedder	tom@pfdistributors.com
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71	Stevens Creek Quarry	Mark	Idemoto	midemoto@scqinc.com
72	SWCA Environmental Consultants	Seth	Dallmann	sdallmann@swca.com
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