RESCU Program describes eleven projects which constitute full replacement and rehabilitation of SVCW’s conveyance system. RESCU includes the Gravity Pipeline, Front of Plant, Pump Stations, and Belmont Force Main projects. The Front of Plant includes six and Pump Stations includes four of the eleven projects. The Conveyance System Improvements Environmental Impact Report completed and adopted by the SVCW Commission in April 2017 covers work to be done under all the RESCU Program projects.

### Source of Funds (per LRFP 2018)

- BONDS $81.52M
- CASH $14.39M
- SRF $143.86M
- WFPS $239.77M

### Budget vs Expenditures

- Expenditures $59.32M
- Budget $494.99M

### Expenditures by Object

- CIP Admin & Legal ($16.33M)
- CIP Construction ($35.14M)
- CIP Construction Mgmt ($1.61M)
- CIP Planning & Design ($5.36M)
- CIP Staff ($1.72M)
- CIP Total $54.82M

### Project Schedule

- R01 - Influent Connection - connected to plant
- R02 - Headworks - connected to plant
- R03 - Gravity Pipeline - in service
- R04 - RLS - in service
- R05 - FOP Site Work Finished
- R06 - RCPS Replacement Complete
- R07 - Belmont Force Main
- R08 - MPPS Rehab Complete
- R09 - Belmont Pump Station

### 3 Month Cash-Flow

- Capital Program
- Front-of-Plant F.
- Gravity Pipeline
- OCIP
- Pump Stations

As of: 2019 - 02
Front of Plant Progressive DB Project

The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and final acceptance for the Receiving Lift Station (RLS), Surges and Flow Splitter (SFS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Storage and Chemical Offload Facilities, Civil site work, Emergency Overflow pipe to storage basin and related process support systems. Work is being implemented under a Progressive Design-Build procurement process in stages.

Milestone Schedule

<table>
<thead>
<tr>
<th>Milestone Description</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Percent ( % ) Design Documents</td>
<td>12/6/2018</td>
<td>7/31/2019</td>
</tr>
<tr>
<td>Stage 2C - RLS Shaft Construction</td>
<td>10/11/2018</td>
<td>2/25/2020</td>
</tr>
<tr>
<td>Headworks Completed/ Early Start-Up</td>
<td>12/6/2018</td>
<td>10/24/2021</td>
</tr>
<tr>
<td>SFS/RLS Operational</td>
<td>12/6/2018</td>
<td>8/28/2022</td>
</tr>
<tr>
<td>Stage 2D - Balance of Stage 2 Work Final Completion</td>
<td>12/6/2018</td>
<td>10/20/2022</td>
</tr>
</tbody>
</table>

Available Budget: $137.81M
Total Expenditure: $30.50M
Remaining Budget: $107.31M

Budget vs Expenditures

Expenditures by Object

Schedule

FoPS2.R1000 - Stage2B - Construct Working Platform
FoPS2.R1010 - Stage2C - Prepare and Submit
FoPS2.R1020 - Stage2C - Review & Approve
FoPS2.R1030 - Stage2C - Procurement
FoPS2.R1040 - Stage2C - SFS & RLS Shaft Work
FoPS2.R1050 - Stage2C - RLS Barrettes Work
FoPS2.R1060 - Stage2C - Pre-Excavation Work
FoPS2.R1070 - Stage2C - Shaft Excavation Work
FoPS2.R1080 - Stage2C - Concrete Base Slabs
FoPS2.R1090 - Stage2B - Guidewall Installation - RLS Shaft & Barrettes
FoPS2.R1100 - Stage2B - Guidewall Installation - SFS Shaft
FoPS2.R1110 - Stage2B - Diaphragm Wall Mobilization & Setup

As of: 2019 - 02
# Front of Plant Progressive DB Project

## Major Accomplishments this Period

| Design                          | - SPV continues reviewing and implementing SVCW's follow-up responses to the 60% design package resubmittal and developing the 100% design package  
|                               | - Continued detailing the instrumentation and controls for RLS control strategies  
|                               | - Continued development of all FoP control narratives  
|                               | - Revised the Master Equipment List  
| Procurement of Trade Packages  | - Stage 2D Amendment was approved at the December Commission  
|                               | - Completed review of the major equipment list with preferred manufacturers  
|                               | - WIFIA applications are in progress  
| Construction                   | - Completed the installation of fifteen barettes for the RLS shaft  
|                               | - Began the installation of the support of excavation panels for the RLS shaft  

## Upcoming Key Activities

- Continue detailing RLS and Headworks facilities
- Complete the installation of the RLS and SFS Support of Excavation Walls
- Procurement of major equipment

## 3 - Month Look Ahead

<table>
<thead>
<tr>
<th>Installation of RLS and SFS Support of Excavation Walls</th>
<th>Start</th>
<th>End</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>November 12, 2018</td>
<td>June 17, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Develop 100% Design Package</td>
<td>December 6, 2018</td>
<td>July 31, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Headworks Facility Civil Work</td>
<td>March 7, 2019</td>
<td>August 1, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

## Safety Spot Light

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Time</td>
<td>0</td>
</tr>
<tr>
<td>Near Misses</td>
<td>0</td>
</tr>
<tr>
<td>Recorded Losses</td>
<td>0</td>
</tr>
</tbody>
</table>

As of: 2019 - 02
Gravity Pipeline Progressive DB Project

The Gravity Pipeline (GP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout of approximately 17,600 feet of wastewater gravity FRP pipe inside a concrete-segment tunnel. The work includes three shafts and will interface directly with the Front of Plant (FoP) Project at the Surge & Flow Shaft (SFS). Work is being implemented under a Progressive Design-Build procurement process.

### Milestone Schedule

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notice to Proceed - Stage 1 Services</td>
<td>10/13/2017</td>
<td>1/13/2017</td>
</tr>
<tr>
<td>Stage 1 Services Complete</td>
<td>10/13/2017</td>
<td>1/21/2019</td>
</tr>
<tr>
<td>100% Design Documents</td>
<td>4/29/2019</td>
<td>7/6/2019</td>
</tr>
<tr>
<td>TBM Procurement and Delivery</td>
<td>12/14/2018</td>
<td>7/26/2019</td>
</tr>
<tr>
<td>Airport Access Shaft Construction</td>
<td>5/31/2019</td>
<td>5/31/2019</td>
</tr>
<tr>
<td>Procurement of BCDC permit</td>
<td>6/20/2019</td>
<td>3/30/2020</td>
</tr>
<tr>
<td>Bair Island Shaft Construction</td>
<td>10/10/2019</td>
<td>5/27/2020</td>
</tr>
<tr>
<td>San Carlos Shaft Construction</td>
<td>8/20/2020</td>
<td>1/7/2021</td>
</tr>
<tr>
<td>TBM Drive (AAS to Bair Island)</td>
<td>9/10/2020</td>
<td>8/13/2021</td>
</tr>
<tr>
<td>FRP Pipe Installation</td>
<td>7/27/2021</td>
<td>5/12/2022</td>
</tr>
<tr>
<td>Final Commissioning</td>
<td>7/13/2022</td>
<td></td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 9.66%
- Remaining Budget: 90.34%

### Expenditures by Object

- CIP Admin & Legal ($8.94M)
- CIP Construction ($15.82M)
- CIP Construction Mgmt ($1.31M)
- CIP Planning & Design ($3.71M)
- CIP Staff ($7.60M)

### Schedule

- **GPS2.A5635 - 100% Design Complete**
- **GPS2.A5645 - TBM ON SITE**
- **GPS2.A5650 - Manufacture & Deliver TBM (11.5 months)**
- **GPS2.A5660 - Manufacture Segment Moulds (6 months)**
- **GPS2.A5670 - AAA Site Prep**
- **GPS2.A5680 - AAA Shaft Construction**
- **GPS2.A5690 - AAS Inclined Conveyor Tunnel**
- **GPS2.A5700 - Lower-In/ Assemble/Prep for Launch**

As of: 2019 - 02
## Major Accomplishments this Period

**Design**
- Continued Construction Phase Instrumentation & Monitoring design
- Continued Specification development

**Procurement of Trade Packages**
- Executed contract with Grout Plant, Depressurization Well, and Site Utility subcontractors.
- Continued discussions with FRP pipe manufacturers: SVCW reviewing durability report in parallel.
- Outreach in conformance with SRF and WIFIA funding requirements

**Construction**
- SOE subcontractor completed installation all slurry wall panels for the Airport Access Shaft

## Upcoming Key Activities
- San Carlos/Bair Island Piping Design
- Airport Access Shaft Utility and Depressurization Well Installation
- Excavation of Airport Access Shaft
- Inclined Conveyor Design
- BCDC Permit in Progress

## 3 - Month Look Ahead

<table>
<thead>
<tr>
<th>Event</th>
<th>Start</th>
<th>End</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% Design Completion</td>
<td>August 10, 2018</td>
<td>April 29, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Factory Acceptance of TBM</td>
<td>November 1, 2018</td>
<td>April 16, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Shaft Instrumentation Installation</td>
<td>March 19, 2019</td>
<td>April 18, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cap Beam Installation</td>
<td>April 19, 2019</td>
<td>May 16, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Airport Access Shaft Excavation</td>
<td>May 17, 2019</td>
<td>June 26, 2019</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

## Safety Spot Light

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Recorded Losses</td>
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</tbody>
</table>
Pump Stations

All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline via a drop structure at the current San Carlos pump station site. Flows from the MPPS and RCPS will flow through the new 48-inch force main to a drop structure at Inner Bair Island. This project also includes replacement of the Belmont Force Main and will be implemented via a Progressive Design-Build Process.

### Milestone Schedule

<table>
<thead>
<tr>
<th>Task Description</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI Project Procurement process approved by Commission</td>
<td>7/13/2018</td>
<td>7/13/2018</td>
</tr>
<tr>
<td>Recommend Award of DB Agreement to Commission</td>
<td>2/25/2019</td>
<td>2/25/2019</td>
</tr>
<tr>
<td>Basis of Design Report (BODR)</td>
<td>2/26/2019</td>
<td>7/16/2019</td>
</tr>
<tr>
<td>30 Percent (%) Design Documents</td>
<td>7/17/2019</td>
<td>9/11/2019</td>
</tr>
<tr>
<td>60 Percent (%) Design Documents</td>
<td>9/12/2019</td>
<td>11/4/2019</td>
</tr>
<tr>
<td>Stage 1 Services Complete</td>
<td>1/9/2020</td>
<td>1/9/2020</td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 1.65%
- Remaining Budget: 98.35%

### Expenditures by Object

- 0.09M (4.79%)
- 0.13M (6.92%)
- 1.45M (79.99%)
- 0.10M (5.64%)

### Schedule

- PSS1.A1080 - Approve DB & Issue NTP
- PSS1.A1090 - Negotiate with Selected Team
- PSS1.A1095 - Stage 1
- PSS1.A1100 - Evaluation Committee Recommendation
- PSS1.A1400 - Obtain BCDC Permit - PS
- PSS1.A1420 - DJPA/WRA TO for Mitigation Monitoring - PS

As of: 2019 - 02
Pump Stations

Major Accomplishments this Period

Design
- Recommended that the Commission award the Design-Build Project to Shea-Parsons JV for Stage 1 Services
- Held a kickoff meeting with the project’s stakeholders

Upcoming Key Activities

Issue NTP for Stage 1 Services
Development of the Basis of Design Report
Alternative Analysis Workshops

3 - Month Look Ahead

<table>
<thead>
<tr>
<th></th>
<th>Start</th>
<th>End</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Analysis</td>
<td>February 14, 19</td>
<td>May 16, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Basis of Design Report</td>
<td>February 28, 19</td>
<td>July 15, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Project Execution Plan</td>
<td>March 4, 2019</td>
<td>April 4, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Geotechnical Investigation Plan</td>
<td>March 8, 2019</td>
<td>April 17, 2019</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Safety Spot Light

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As of: 2019 - 02