Overview

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.

Available Budget: $494.99M
Total Expenditure: $53.49M
Remaining Budget: $441.50M

Source of Funds (per LRFP 2018)
- BONDS $81.52M
- CASH $14.39M
- WIFIA $239.37M
- SRF $143.86M

Budget vs Expenditures
- Expenditures $53.49M
- Budget $494.99M

Expenditures by Object
- CIP Admin & Legal ($14.91M)
- CIP Construction ($31.27M)
- CIP Construction Mgmt ($1.39M)
- CIP Planning & Design ($5.16M)
- CIP Staff ($1.63M)

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 - RCP5 Replacement Complete
- R07 - Belmont Force Main
- R08 - MPFS Rehab Complete
- R09 - Belmont Pump Station

3 Month Cash-Flow

Capital Program  Front-of-Plant Facilities  Gravity Pipeline  Pump Stations

As of: 2018 - 12
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), Surge 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</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed Stage 1 Services</td>
<td>11/28/2017</td>
<td>12/6/2018</td>
</tr>
<tr>
<td>Completed Stage 2A - Piles</td>
<td>6/16/2018</td>
<td>11/12/2018</td>
</tr>
<tr>
<td>Completed Stage 2B - RLS Shaft Preparation</td>
<td>7/23/2018</td>
<td>12/28/2018</td>
</tr>
<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>

Budget vs Expenditures

- Expenditures: 16.84%
- Remaining: 83.16%

Expenditures by Object

- CIP Admin & Legal ($6.98M)
- CIP Construction ($17.03M)
- CIP Construction Mgmt ($2.1M)
- CIP Planning & Design ($3.16M)
- CIP Staff ($73M)

Schedule

- GPS2.R1000 - Stage2B - Construct Working Platform for Shaft Work
- GPS2.R1010 - Stage2C - Prepare and Submit Submittals
- GPS2.R1020 - Stage2C - Review & Approve Submittals
- GPS2.R1030 - Stage2C - Procurement of Materials
- GPS2.R1040 - Stage2C - SFS & RLS Diaphragm Wall Work
- GPS2.R1050 - Stage2C - RLS Barrier Work
- GPS2.R1060 - Stage2C - Pre-Excavation Work
- GPS2.R1070 - Stage2C - Shaft Excavation Work
- GPS2.R1080 - Stage2C - Concrete Base Slabs
- GPS2.R1090 - Stage2B - Guidewall Installation - RLS Shaft & Barrettes
- GPS2.R1100 - Stage2B - Guidewall Installation - SFS Shaft
- GPS2.R1110 - Stage2B - Dachaam Wall Mobilization & Setup

As of: 2018 - 12
# Front of Plant Progressive DB Project

## Major Accomplishments this Period

**Design**
- SVCW provided follow-up responses to SPIV’s resubmittal of the 60% design package.
- Continued design of instrumentation and controls for RLS control strategies.
- Completed second revision of all FoP control Narratives.
- Completed Master Equipment List with naming convention_x000D_

**Procurement of Trade Packages**
- Owner advisors' completed the independent 60% cost estimate review of the Stage 2D package.
- SPIV finished negotiating their lump sum cost with SVCW for Stage 2D.
- SVCW updated the risk register for SRF/WIFIA fund requirements.
- Completed WIFIA certification letter for procurement.

**Construction**
- Continued the installation of guidewalls for the RLS and SFS.
- Completed mobilization of the diaphragm wall equipment and site layout.

## 3 - Month Look Ahead

<table>
<thead>
<tr>
<th></th>
<th>Start</th>
<th>End</th>
<th>January</th>
<th>February</th>
<th>March</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation of RLS and SFS Support of Excavation Walls</td>
<td>November 12, 2018</td>
<td>March 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>
</tbody>
</table>

## Safety Spotlight

<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>
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>10/13/2017</td>
</tr>
<tr>
<td>Basis of Design Report (BDOR)</td>
<td>12/3/2018</td>
<td></td>
</tr>
<tr>
<td>30 Percent (%) Design Documents</td>
<td>11/29/2018</td>
<td></td>
</tr>
<tr>
<td>60 Percent (%) Design Documents</td>
<td>1/21/2019</td>
<td></td>
</tr>
<tr>
<td>Stage 2A Approval - TBM Purchase, Airport Clear and Grub, Crane purchase</td>
<td>8/23/2018</td>
<td></td>
</tr>
<tr>
<td>Stage 2B Approval - Balance of Stage 2 Work</td>
<td>9/17/2018</td>
<td>11/8/2018</td>
</tr>
<tr>
<td>Stage 1 Services Complete</td>
<td>10/13/2017</td>
<td>1/21/2019</td>
</tr>
<tr>
<td>Airport Access Shaft Construction</td>
<td>12/14/2018</td>
<td>9/4/2019</td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 8.69%
- Remaining: 91.31%

### Expenditures by Object

- CIP Admin & Legal (57.83M)
- CIP Construction (116.19M)
- CIP Construction Mgmt (11.11M)
- CIP Planning & Design (6.68M)
- CIP Staff (5.68M)

### Schedule

- GP52.A5630 - 100% Design Complete
- GP52.A5640 - TBM ON SITE
- GP52.A5650 - Manufacture & Deliver TBM (11.5 months)
- GP52.A5660 - Manufacture Segment Moulds (6 months)
- GP52.A5670 - AAA Site Prep
- GP52.A5680 - AAA Shaft Construction
- GP52.A5690 - AAS Inclined Conveyor Tunnel
- GP52.A5700 - Lower-In/ Assemble/Prep for Launch

As of: 2018 - 12
Gravity Pipeline Progressive DB Project

Major Accomplishments this Period

- Design:
  - Continued sediment transport modeling
  - Continued air flow and H2S concentration modeling. Coordinating with FoP DB team
  - Progressed Tunnel lining and Instrumentation & Monitoring design to 100%
  - Continued design of Bair Island and San Carlos shafts to 60%

- Procurement of Trade Packages:
  - Selected Tunnel Segment supplier
  - Ongoing discussions with FRP pipe manufacturers
  - Outreach in conformance with SRF and WIFIA funding requirements

- Construction:
  - Completed TBM Launch Site preparation
  - SDE subcontractor mobilized and began excavating slurry walls

3 - Month Look Ahead

<table>
<thead>
<tr>
<th>Category</th>
<th>Start</th>
<th>End</th>
<th>January</th>
<th>February</th>
<th>March</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBM Procurement</td>
<td>January 22, 2018</td>
<td>August 23, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Bair Island Shaft Design (100% Design)</td>
<td>August 8, 2018</td>
<td>January 29, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydraulic Design (100% Design)</td>
<td>August 15, 2018</td>
<td>January 29, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>San Carlos Shaft Design (100% Design)</td>
<td>August 15, 2018</td>
<td>January 29, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conveyor and other tunneling equipment</td>
<td>November 8, 2018</td>
<td>August 5, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Airport Access Shaft Construction</td>
<td>December 14, 2018</td>
<td>August 5, 2019</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Safety Spotlight

<table>
<thead>
<tr>
<th>Category</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Lost Time</td>
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<td>0</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.

### Schedule

- **BPS-BPR.1440** - Obtain BCDC Permit - BPS
- **BPS-BPR.1460** - DJPA/WRA TO for Mitigation Monitoring - BPS
- **MPPS.1560** - DJPA/WRA TO for Mitigation Monitoring - MPPS
- **MPPS.1590** - Obtain BCDC Permit - MPPS
- **RCPS.1510** - Obtain BCDC Permit - RCPS
- **RCPS.1530** - DJPA/WRA TO for Mitigation Monitoring - RCPS

### Milestone Schedule

<table>
<thead>
<tr>
<th>Milestone 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>Issue RFQ</td>
<td>7/16/2018</td>
<td>7/16/2018</td>
</tr>
<tr>
<td>D/B Selection Process - Short List Established</td>
<td>7/16/2018</td>
<td>9/28/2018</td>
</tr>
<tr>
<td>Issue RFP</td>
<td>10/1/2018</td>
<td></td>
</tr>
<tr>
<td>D/B Selection Process - Proposals Submitted</td>
<td>12/10/2018</td>
<td></td>
</tr>
<tr>
<td>D/B Interviews Completed and D/B Firm Selected</td>
<td>1/11/2019</td>
<td></td>
</tr>
<tr>
<td>Recommend Award of DB Agreement to Commission</td>
<td>2/18/2019</td>
<td></td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 1.42% of 98.58% Remaining Budget
- 0.09M (5.91%)
- 0.08M (4.81%)
- 0.06M (3.64%)
- 1.32M (25.58%)

### Expenditures by Object

- CIP Admin & Legal (0.09M)
- CIP Construction (0.05M)
- CIP Construction Mgmt (0.08M)
- CIP Planning & Design (1.32M)
- CIP Staff (0.04M)

### Available Budget

- **$103.93M**

### Total Expenditure

- **$1.49M**

### Remaining Budget

- **$102.44M**
Pump Stations

Major Accomplishments this Period

- Reviewed the DB firms' proposals
- Received DB firms' indicative cost proposals

Upcoming Key Activities

- Select Design Builder
- Issue NTP for Stage 1 Services
- Begin developing the Basis of Design Report for the project

3 - Month Look Ahead

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start</th>
<th>End</th>
<th>January</th>
<th>February</th>
<th>March</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Design Builder</td>
<td>December 10, 2018</td>
<td>January 11, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hold D/B Interviews and Review Indicative Cost</td>
<td>January 9, 2019</td>
<td>January 10, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commission Approval to Award Contract</td>
<td>February 18, 2019</td>
<td>February 18, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stage 1 Notice of Award</td>
<td>February 18, 2019</td>
<td>February 18, 2019</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Safety Spot Light

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