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 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)

- Variable Bonds: $82.45M
- SRF/WFIA: $42.35M
- Fixed Bonds: $263.85M
- Cash from Member Agencies: $29.61M

Budget vs Expenditures

- Expenditures: $9.32M
- Budget: $412.26M

Expenditures by Object

- CIP Admin & Legal: $4.52M (48.5%)
- CIP Construction: $3.54M (38.0%)
- CIP Construction Mgmt: $0.61M (6.7%)
- CIP Planning & Design: $0.61M (6.7%)
- CIP Staff: $0.83M (9.3%)

Construction 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 - MPSS Rehab Complete
- R09 - Belmont Pump Station

Monthly Expenditures

- Sept 17: $0.4M
- Oct 17: $1.7M
- Nov 17: $2.5M
- Dec 17: $1.8M
- Jan 18: $2.9M
Front of Plant Progressive DB Project

The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout for Receiving Lift Station (RLS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, 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>Notice to Proceed - Stage 1 Services</td>
<td>2018-11-28</td>
<td>2018-08-22</td>
</tr>
<tr>
<td>30 Percent (%) Design Documents</td>
<td>2018-08-22</td>
<td>2018-10-19</td>
</tr>
<tr>
<td>60 Percent (%) Design Documents</td>
<td>2018-10-19</td>
<td>2018-05-11</td>
</tr>
<tr>
<td>Stage 1 Services Complete</td>
<td>2018-12-31</td>
<td></td>
</tr>
<tr>
<td>Stage 2 Amendment Negotiations Complete</td>
<td>2018-12-28</td>
<td></td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 4.85%
- Remaining Budget: 15.15%

### Expenditures by Object

- CIP Admin & Legal: 0.41M (6.53%)
- CIP Construction: 1.25M (21.41%)
- CIP Construction Mgmt: 4.40M (69.98%)
- CIP Planning & Design: 0.01M (0.16%)
- CIP Staff: 0.0M (0.00%)

---

### Schedule

- Task 01: Background Document Review & Validation / Coordination with GP Project
- Task 02: Project Execution Plan
- Task 03: Additional Geotechnical Investigations & Geotechnical Baseline Report
- Task 04: Additional Surveying, Mapping and Utility Locates
- Task 05: Alternative Analysis
- Task 07: Cost Modeling Development & Estimates
- Task 08: Scheduling
- Task 09: Modeling (Hydraulic, Physical, Air and Odor Control Modeling)
- Task 10: Process & Instrumentation Diagram (P&ID), Master Equipment & I/O List Development
- Task 11: Control Strategy / Narratives Development
- Task 12: Basis of Design Report & 30 Percent (%) Design Documents
- Task 13: Design & Construction Phasing Plan
- Task 14: 60 Percent (%) Design Package
- Task 15: 60% Startup and Acceptance Testing Plan / Preliminary Staffing & Training Plan
- Task 18: Project Management & Coordination
# Front of Plant Progressive DB Project

## Major Accomplishments this Period

**Design**
- Approved Project Execution Plan, Quality Management, Survey Mapping & Utility Plan, Permitting Plan, and Baseline Schedule for Stage 1
- Completed Geotechnical Borings
- Selected the type of RLS and the alignment of the Interconnect Pipe
- Continuing to coordinate with GP to finalize the scope delineation between the RLS Shaft and the TBM Retrieval Shaft
- Completed topographical surveys

**Procurement of Trade Packages**
- Met with SOE Subcontractors, in coordination with GP DB team
- Discussions with concrete pile Subcontractors

**Construction**
- None

## 3 Month Look Ahead

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Forecast</th>
<th>February 2018</th>
<th>April 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resubmit Permitting Plan</td>
<td>2018-02-15</td>
<td>February 15, 2018</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>Finalize Geotechnical Baseline Report</td>
<td>2018-04-26</td>
<td>April 26, 2018</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>Finalize Hydraulic CFD Results</td>
<td>2018-04-12</td>
<td>April 12, 2018</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>Design &amp; Construction Phasing Plan</td>
<td>2018-04-18</td>
<td>April 18, 2018</td>
<td>▼</td>
<td></td>
</tr>
</tbody>
</table>

## Upcoming Key Activities

- Flow Science Analysis
- Headworks and Odor Control Alternatives Analysis
- Interior Design of the RLS

## 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>
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 four shafts and will interface directly with the Front of Plant (FoP) Project at the Receiving Lift Station (RLS). 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>2017-10-13</td>
<td>2018-09-11</td>
</tr>
<tr>
<td>30 Percent (%) Design Documents</td>
<td>2018-11-28</td>
<td>2018-09-11</td>
</tr>
<tr>
<td>60 Percent (%) Design Documents</td>
<td>2018-11-28</td>
<td>2018-09-11</td>
</tr>
<tr>
<td>Stage 1 Services Complete</td>
<td>2018-12-31</td>
<td>2018-09-11</td>
</tr>
<tr>
<td>Stage 2 Amendment Negotiations Complete</td>
<td>2018-12-21</td>
<td>2018-09-11</td>
</tr>
</tbody>
</table>

### Budget vs Expenditures

- Expenditures: 1.22%
- Remaining Budget: 98.78%

### Expenditures by Object

- CIP Admin & Legal: 4.66%
- CIP Construction: 3.52%
- CIP Construction Mgmt: 4.56%
- CIP Planning & Design: 4.56%
- CIP Staff: 4.56%

### Schedule

- Task 1.1 - Background Docs Review & Validation
- Task 1.2.1 - Geotechnical Investigations
- Task 1.2.2 - GDR Updates & GBR Preparation
- Task 1.2.3 - Surveying & Surface Utilities
- Task 1.3 - Develop Project Concepts
- Task 1.4 - BODR
- Task 1.4.1 - Development of Agreed Alternative Design
- Task 1.5.1 - 30% Design
- Task 1.5.2 - 60% Design
- Task 1.6 - Cost Estimates
- Task 1.7 - Project Schedules
- Task 1.8 - Permitting
- Task 1.9 - Project Management & Coordination
  - Task 1.9.1.1 - Stage 2A Amendment (TBM Procurement / Ret Shaft)
  - Task 1.9.1.2 - Stage 2B Amendment (Airport Shaft / Segments / Moulds)
## Gravity Pipeline Progressive DB Project

### Major Accomplishments this Period

<table>
<thead>
<tr>
<th>Category</th>
<th>Accomplishments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design</strong></td>
<td>- Approved Project Execution Plan, Quality Management, Survey Mapping &amp; Utility Plan, Permitting Plan, and Baseline Schedule for Stage 1&lt;br&gt;- Completed Preliminary Geotechnical Investigation&lt;br&gt;- Developed Base Design Criteria&lt;br&gt;- Progressed Retrieval Shaft design to near 60%&lt;br&gt;- Continuing to coordinate with FoP to finalize the scope delineation between the RLS Shaft and the TBM Retrieval Shaft</td>
</tr>
<tr>
<td><strong>Procurement of Trade Packages</strong></td>
<td>- Met with SOE Subcontractors, in coordination with FoP DB team&lt;br&gt;- Ongoing discussions with FRP pipe manufacturers&lt;br&gt;- Ongoing outreach to TBM manufacturers&lt;br&gt;- Outreach in conformance with SRF and WIFIA funding requirements</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>- None</td>
</tr>
</tbody>
</table>

### 3 - Month Look Ahead

<table>
<thead>
<tr>
<th>Task</th>
<th>Baseline</th>
<th>Forecast</th>
<th>April 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surveying</td>
<td>2018-04-20</td>
<td>April 20, 2018</td>
<td>▼</td>
</tr>
<tr>
<td>Geotechnical Interpretation Report</td>
<td>2018-04-16</td>
<td>April 16, 2018</td>
<td>▼</td>
</tr>
<tr>
<td>Shaft Design Package (BODR)</td>
<td>2018-04-17</td>
<td>April 17, 2018</td>
<td>▼</td>
</tr>
</tbody>
</table>

### Upcoming Key Activities

- Basis of Design Report for Tunnel and Retrieval Shaft (DB-100-02)
- Geotechnical Data Report (DB-100-03)
- Stage 1 Baseline Schedule

### 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>