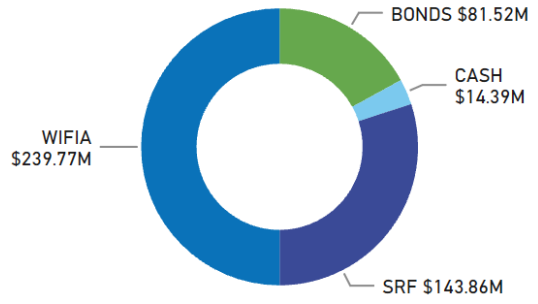
Overview

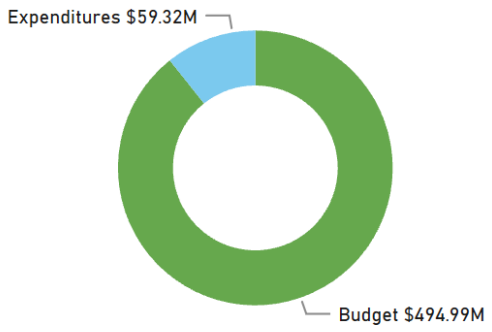
RESCU Program describes eleven projects which constitute full replacement and rehabilitation of SVCW's conveyance system. RESCU includes the Gravity Pipeline, Front of Plant, Pump Stations, and Belmont Force Main projects. The Front of Plant includes six and Pump Stations includes four of the eleven 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	Total Expenditure	Remaining Budget
$494.99M	$59.32M	$435.67M

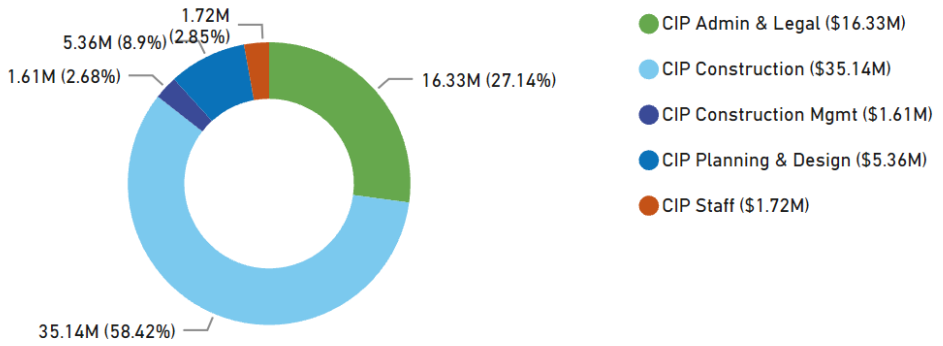
Source of Funds (per LRFP 2018)



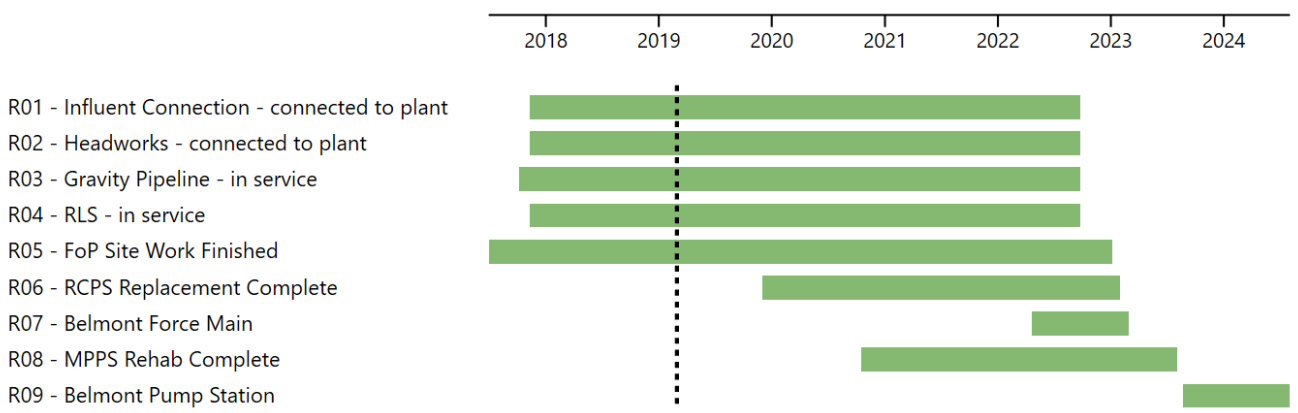
Budget vs Expenditures



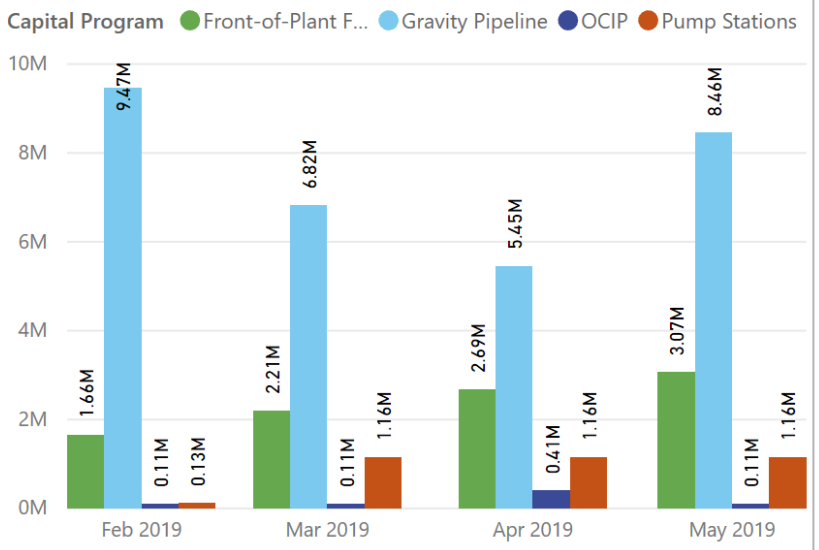
Expenditures by Object



Project Schedule



3 Month Cash-Flow



As of : 2019 - 02

AGENDA ITEM 5F

Front of Plant Progressive DB Project

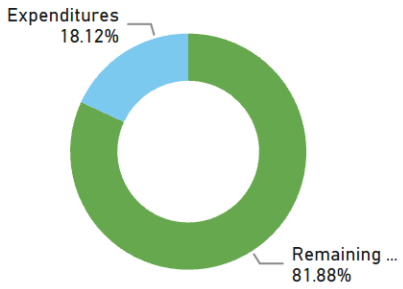
The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and final acceptance for the Receiving Lift Station (RLS), Surge and Flow Splitter (SFS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Storage and Chemical Offload Facilities, 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.

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

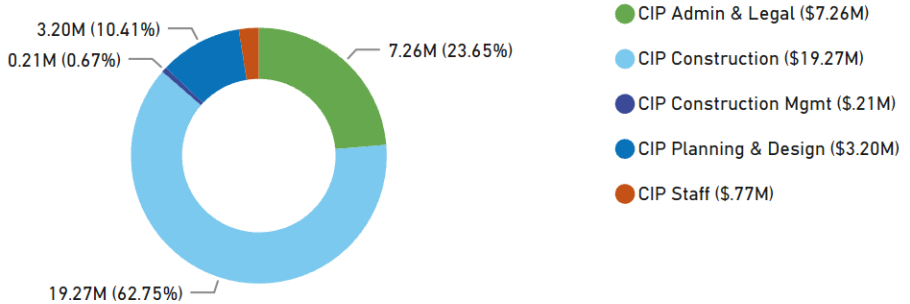
Milestone Schedule

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

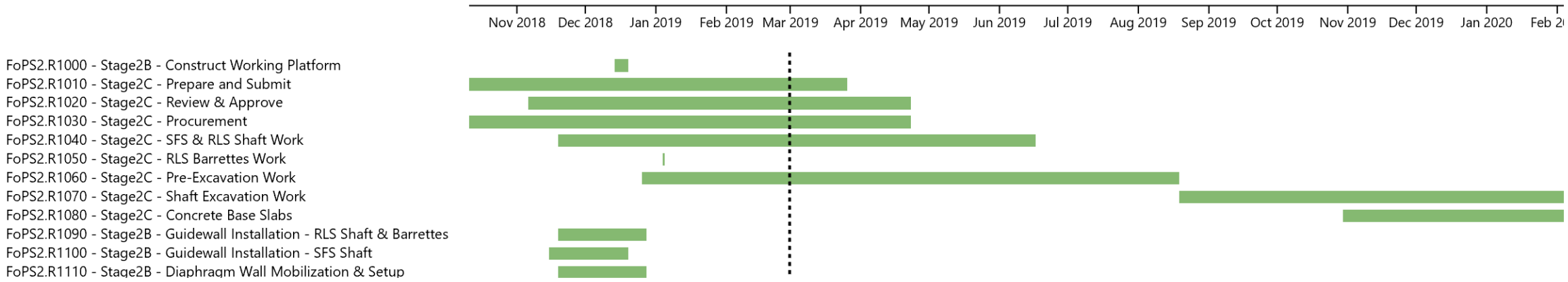
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2019 - 02

Front of Plant Progressive DB Project

Major Accomplishments this Period

Design	- SPJV 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 Amendement 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 exvacation 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

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

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2019 - 02

Gravity Pipeline Progressive DB Project

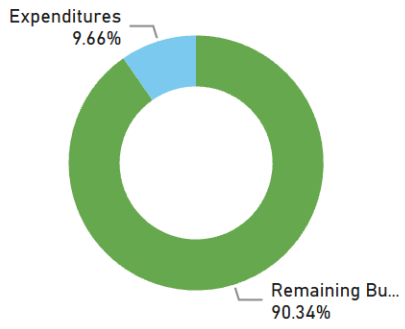
The Gravity Pipeline (GP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout of approximately 17,600 feet of wastewater gravity FRP pipe inside a concrete-segment tunnel. The work includes three shafts and will interface directly with the Front of Plant (FoP)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

Available Budget	Total Expenditure	Remaining Budget
$253.25M	$27.09M	$226.16M

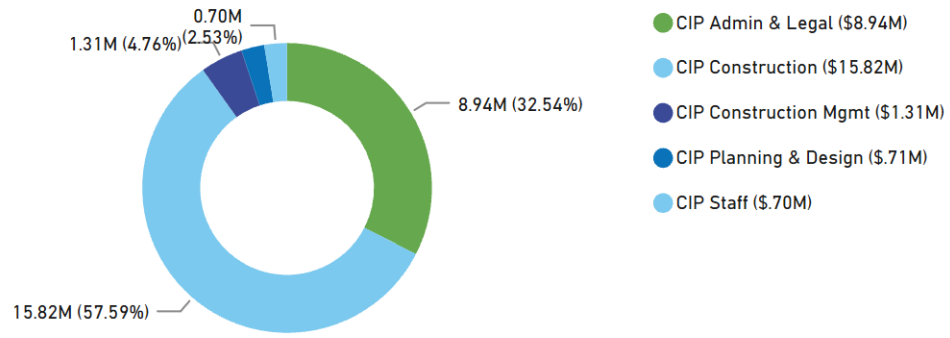
Milestone Schedule

	Start	Finish
Notice to Proceed - Stage 1 Services		10/13/2017
Stage 1 Services Complete	10/13/2017	1/21/2019
100% Design Documents		4/29/2019
TBM Procurement and Delivery		7/5/2019
Airport Access Shaft Construction	12/14/2018	7/26/2019
Procurement of BCDC permit		5/31/2019
Bair Island Shaft Construction	6/20/2019	3/30/2020
TBM Drive (AAS to Bair Island)	10/9/2019	5/7/2020
San Carlos Shaft Construction	8/20/2020	1/7/2021
TBM Drive (AAS to SFS)	9/10/2020	8/13/2021
FRP Pipe Installation	7/27/2021	5/16/2022
Final Commissioning		7/13/2022

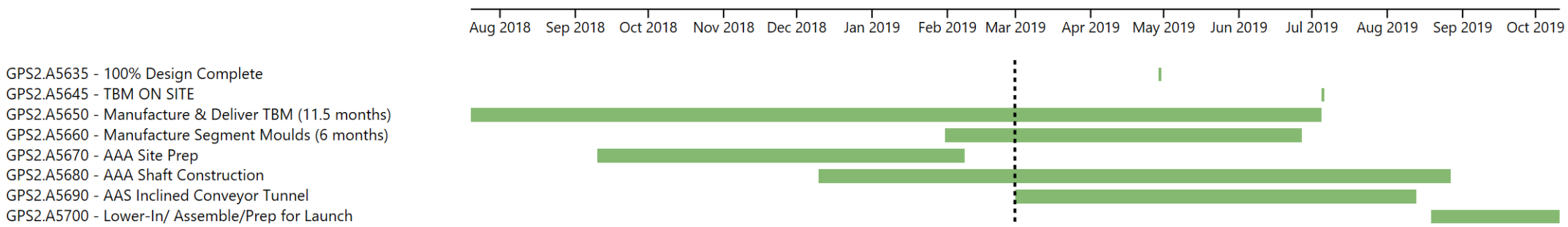
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2019 - 02

Gravity Pipeline Progressive DB Project

Major Accomplishments this Period

Design	-Continued Construction Phase Instrumentation & Monitoring design -Continued Specfication 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

	Start	End	March	April	May
100% Design Completion	August 10, 2018	April 29, 2019	X	X	
Factory Acceptance of TBM	November 1, 2018	April 16, 2019	X	X	
Shaft Instrumentation Installation	March 19, 2019	April 18, 2019	X	X	
Cap Beam Installation	April 19, 2019	May 16, 2019		X	X
Airport Access Shaft Excavation	May 17, 2019	June 26, 2019			X

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2019 - 02

Pump Stations

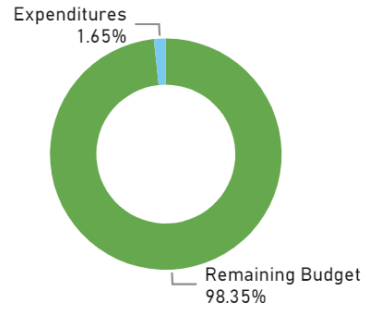
All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline 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.

Available Budget	Total Expenditure	Remaining Budget
$103.93M	$1.74M	$102.19M

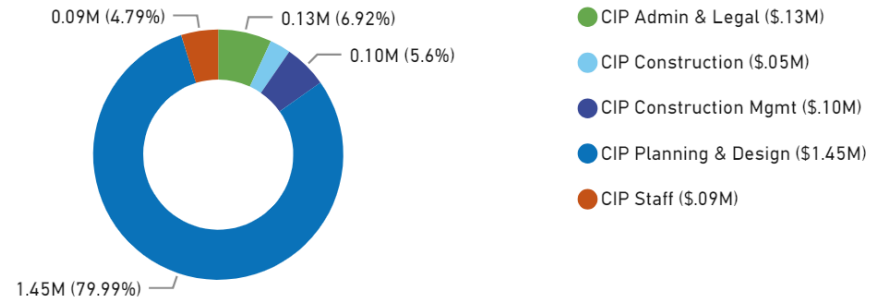
Milestone Schedule

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

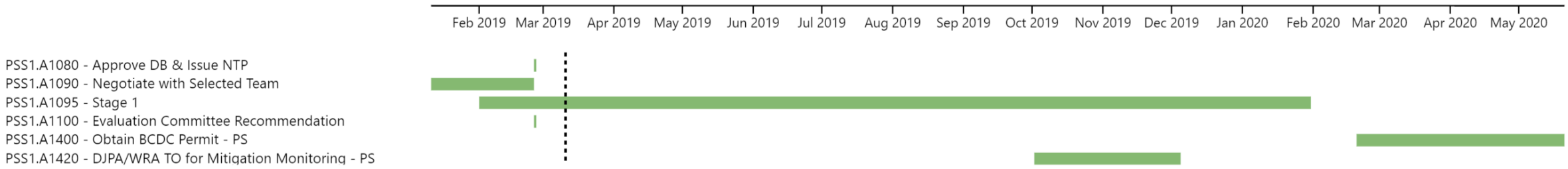
Budget vs Expenditures



Expenditures by Object



Schedule



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

	Start	End	March	April	May
Alternative Analysis	February 14, 2019	May 16, 2019	X	X	X
Basis of Design Report	February 28, 2019	July 16, 2019	X	X	X
Project Execution Plan	March 4, 2019	April 4, 2019	X	X	
Geotechnical Investigation Plan	March 8, 2019	April 17, 2019	X	X	

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2019 - 02