



City of Morro Bay
Water Reclamation Facility Project

QUARTERLY REPORT ENDING JUNE 2021

DRAFT | August 2021





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Paul B. Amico, July 2021,
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Abbreviations

BMP	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
CA	California
Carollo	Carollo Engineers, Inc.
CDFW	California Department of Fish and Wildlife
CFAC	Citizens Finance Advisory Committee
CWSRF	Clean Water State Revolving Fund
DDW	Division of Drinking Water
EHSP	Enhanced Source Control Program
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
FIW	Filter Inlet Water
FRP	Fiber-Reinforced Plastic
FWB	Filter Backwash
GAMA	Groundwater Ambient Monitoring and Assessment Program
GMP	Guaranteed Maximum Price
GSI	GSI Water Solutions
IFC	Issued for Construction
IPR	Indirect Potable Reuse
KPI	Key Performance Indicator
If	Linear Feet
MBR	Membrane Bioreactor
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
PA	Programmatic Agreement
PCO	Potential Change Order
PG&E	Pacific Gas and Electric
PPP	Pollution Prevention Plan
Project	Water Reclamation Facility Project
PRW	Plant Recycled Water
PWAB	Public Works Advisory Board
Q4	Quarter No. 4
RFI	Request for Information
RO	Reverse Osmosis
ROWD	Report of Waste Discharge
RWQCB	Regional Water Quality Control Board

SAA	Stream Bed Alteration Agreement
SHPO	State Historic Preservation Office
SHT	Sludge Holding Tank
SLO	San Luis Obispo
SPI	Schedule Performance Index
SRF	State Revolving Fund
SWRCB	State Water Resources Control Board
TSO	Time Schedule Order
TSS	Total Suspended Solids
USBR	United States Bureau of Reclamation
UVAOP	Ultraviolet Advanced Oxidation Process
Vistra	Vistra Energy
WIFIA	Water Infrastructure Finance and Innovation Act
WRF	Water Reclamation Facility
WWE	Water Works Engineers
WWR	Wastewater Raw
WWS	Wastewater Screened

Section 1

PROJECT OVERVIEW

1.1 General Project Status Update

All components of the Water Reclamation Facility Project (Project) are currently in progress. The general progress update and schedule information presented in this report represents Quarter No. 4 (Q4) of Fiscal Year 2020-2021, from March 1, 2021 to June 30, 2021.

1.1.1 Water Reclamation Facility

1.1.1.1 Design

The design for the Water Reclamation Facility (WRF) was completed with the delivery of the Issued for Construction (IFC) drawings and specifications for the WRF on May 22, 2020.

1.1.1.2 Construction

Construction at the WRF site began on March 20, 2020. Activities to date include the following major activities which are discussed in detail in Section 8:

- Completion of nearly all major earthwork
- Installation of a portion of the major yard piping systems:
- Installation of various electrical infrastructure components.
- Construction progress in the following process areas:
 - Headworks
 - Biological Nutrient Removal (BNR)/Membrane Bioreactor (MBR) treatment
 - Reverse Osmosis (RO)/Ultra Violet (UV)-Advanced Oxidation Process (AOP)
 - Product water facilities
 - Residuals sludge processing
 - Electrical and Instrumentation/Controls
 - Chemical storage and feed
 - Operations building
 - Maintenance building
- City yard facilities

1.1.2 Conveyance Facilities

1.1.2.1 Design

Water Works Engineers (WWE) submitted the bid set plans and specifications in May 2020 and the City advertised this component of the Project on June 15, 2020.

1.1.2.2 Construction

The City opened bids for the Conveyance Facilities component of the Project on August 14, 2020. The City received a total of five bids. Anvil Builders, Inc. (Anvil) was awarded the contract for construction of the Conveyance Facilities on November 10, 2020 and issued notice to proceed (NTP) on December 14, 2020. The following activities were completed between April 1, 2021 and June 30, 2021:

The contractor continued to maintain general and administrative tasks such as project SWPPP, archeological mitigation and monitoring, and public outreach efforts. Additionally, five separate construction crews worked at the following locations, and a detailed description of the work within these areas is included in Section 8:

- Pump Station A
- Pump Station B
- Pipeline construction occurring from La Loma Avenue to South Bay Boulevard.
- Pipeline construction near the intersection of Main St. and Quintana to the roundabout at the intersection of Quintana Road and Morro Bay Boulevard.
- Installed the preparations for trenchless construction activities beneath the City's roundabout.

1.1.3 Recycled Water Facilities

1.1.3.1 Design

The City, Program Manager, and the Hydrogeologist consultant, GSI Water Solutions (GSI), have continued to make progress on the installation of the pilot injection well. In Q4, the pilot injection well was planned to be advertised for bidding; however, the site needed to be cleared by State Historic Preservation Office (SHPO) to perform any ground disturbing activities. In late May, the City's cultural resources consultant, Far Western, conducted a cultural resources direct impact investigation of the pilot injection well site, monitoring well site, and the proposed indirect potable reuse (IPR) supply line alignment within the City easement on Morro Bay Power Company (Vistra) property. The results of the investigation were largely negative and the City received clearance from SHPO to perform construction on June 11, 2021. The Program Management team executed an agreement with Guida Surveying, inc. on June 18th to perform topographic surveying, easement delineation, and existing utility locations for the easement area from Willow Camp Creek to the bike path that is parallel to Highway 1 (approximately 1.2 acres). It is anticipated that this work will be completed mid-July. GSI has continued with permitting efforts including preparing the Aquifer Storage and Recovery general order documentation and has submitted to the Central Coast Regional Water Quality Control Board in April. Additionally, GSI and Carollo permitting staff met with the State Water Resources Control Board (SWRCB) Groundwater Ambient Monitoring and Assessment Program (GAMA) to discuss the future injection wells groundwater modeling methodology and development. They continued to coordinate with SWRCB staff throughout Q4.

Table 1 summarizes some of the key accomplishments and critical challenges identified for the Project through June 30, 2021.

Table 1 Project Accomplishments and Challenges

Project Component	Key Accomplishments	Critical Challenges	Actions to Overcome Challenges	Likely Outcomes
General Project	Continued to support the review of the City's construction loan application by the Clean Water State Revolving Fund (CWSRF) staff (anticipated signed loan agreement in April 2021)			
	Presented revised project budget to Public Works Advisory Board (PWAB) and City Council to incorporate into FY21/22 City Budget.			
	Title XVI Grant Application Submitted to United States Bureau of Reclamation (USBR) on April 23, 2021.			
Water Reclamation Facility	Continued advancing construction on the South Bay Boulevard site (construction 42.4 percent complete as of June 30, 2021).			
	Completed all major earthwork operations			
	Completed soil slip physical investigation		The City and Program Manager are working with the design-build team to determine an approach for remediation of the second soil slip.	Responsibility for the cost of the investigation and remediation has not yet been determined and could result in a change order resulting in an increase to the guaranteed maximum price (GMP) and the overall Project budget.
Conveyance Facilities	Far Western, Project Archeologist, completed their investigation of the LS-2 Alignment (within Phase 2B of Project PA), to delineate cultural resources site California (CA)-San Luis Obispo (SLO)-239.	EPA is not willing to split LS-2 from segment 27+00 to 37+00 from Phase 2B in Programmatic Agreement (PA) between EPA, City, and SHPO. Must wait on further investigation	Far Western to conduct investigation cultural resources boundary required and delineate CA-SLO-16.	If investigation confirms impact to CA-SLO-16, Far Western will develop construction mitigation and monitoring plans.
	Continued to develop redesign section of force mains within Caltrans right of way (ROW) between Atascadero Road and Morro Creek to reduce impact to CA-SLO-16 cultural resources site.	Obtaining a revised encroachment permit from Caltrans for the design change and the extension of the Caltrans Encroachment expiration date.	Caltrans to approve encroachment permit revision.	If Caltrans approves design revision, this will significantly reduce the cost and time impact of the force main construction through CA-SLO-16 cultural resources site.
	Implemented traffic control plans along Quintana Boulevard and near the roundabout.			
Recycled Water Facilities	Clearance of Pilot Injection Well Site and IPR pipeline alignment from bike path to Pilot well with SHPO.			
	Continued development of pilot injection well bid package for expected bid opening in late August/early September.	Delineation of 100-foot-wide permanent easement in field, existing utilities, proposed pilot injection well site, and monitoring well site.	Survey the easement, utilities, and well locations from bike path to Willow Camp Creek prior to bid advertisement to include in bid package. Geographically located wells included in bid package.	Schedule may extend due to contractor award/evaluation and notice to proceed timeline.
	Submittal of the Aquifer Storage and Recovery General Order document to the Central Coast Water Board and continued coordination of their review throughout Q4.			
	Met with the Department of Drinking Water to review injection well model scenarios and components.	The results of the pilot injection testing could potentially require some wells to be located outside of the currently proposed project area including moving to portions of the property that may have additional site constraints.	Additional well modeling is underway to further support the well location analysis. City-owned sites could be prioritized if a new project area is required, in order to minimize the need for additional property acquisition.	Completion of the Recycled Water Facilities component of the Project could be delayed if the wells need to be moved outside of the currently proposed project area.

1.2 Quarterly Budget Revision

The original \$126 million baseline budget was developed in June 2018 (Q4 Fiscal Year 2017 / 2018). At the beginning of each fiscal year, the budget is updated and used as the measure of performance for the Project during that upcoming fiscal year. The budget is then reviewed and reconciled on a quarterly basis to facilitate comparison to both the current fiscal year and baseline budgets. For Q4, the reconciled budget projection is provided to the City for their upcoming fiscal year budget development process.

A summary of the baseline, reconciled quarterly, and fiscal year budgets is provided in Table 2.

In May of 2021 the Project budget was increased from \$138,591,000 to \$144,674,877. The components of this increase consisted of:

- Amendments to the Water Reclamation Facility contract for change orders (\$600K)
- Additional costs associated with archeological investigations for the Conveyance (\$500K)
- Increased program management costs due to increased Conveyance construction oversight, technical and permitting support, funding compliance support, and pre-treatment program development and implementation (\$1M)
- Additional hydrogeological, permitting, and design work for the Recycled Water Facilities (\$700K)
- Additional construction contingency for all Project elements (\$3.3M)

A more detailed explanation of the May 2021 budget increase was provided to Citizens Finance Advisory Committee (CFAC) and City Council on May 18, 2021 and May 25, 2021 respectively.

Table 2 Budget Revision Summary

Project Component	Baseline (Q4 FY 17/18)	Quarterly Reconciliation (Q3 FY 18/19)	Fiscal Year 19/20 (Q4 FY 18/19)	Quarterly Reconciliation (Q1 FY 19/20)	Quarterly Reconciliation (Q2 FY 19/20)	Quarterly Reconciliation (Q3 FY 19/20)	Fiscal Year 20/21 (Q4 FY 19/20) ⁽⁴⁾	Quarterly Reconciliation (Q1 FY 20/21)	Quarterly Reconciliation (Q2 FY 20/21) ⁽¹⁾	Quarterly Reconciliation (Q3 FY 20/21) ⁽¹⁾⁽²⁾	Fiscal Year 21/22 (Q4 FY 20/21) ⁽¹⁾⁽³⁾
Water Reclamation Facility	\$62,414,000	\$74,059,000	\$72,891,000	\$72,598,000	\$72,231,000	\$71,856,000	\$77,828,000	\$77,082,000	\$77,281,977	\$77,087,023	\$77,687,023
Conveyance Facilities	\$21,087,000	\$27,108,000	\$28,864,000	\$28,524,000	\$29,224,000	\$29,989,000	\$29,840,000	\$37,355,000	\$37,482,000	\$37,482,000	\$37,982,000
Recycled Water Facilities	\$8,593,000	\$5,366,000	\$5,250,000	\$5,212,000	\$5,353,000	\$5,526,000	\$5,526,000	\$5,740,000	\$5,968,000	\$5,968,000	\$6,668,000
General Project ⁽⁵⁾	\$24,403,000	\$11,614,000	\$11,801,000	\$11,625,000	\$11,701,000	\$12,964,000	\$13,260,000	\$14,255,000	\$14,445,000	\$14,445,000	\$15,445,000
Construction Contingency	\$9,444,000	\$6,450,000	\$7,132,000	\$7,131,000	\$7,364,000	\$10,264,000	\$4,207,000	\$4,250,000	\$3,414,023	\$3,608,977	\$6,892,854
Total	\$125,941,000	124,597,000	\$125,938,000	\$125,090,000	\$125,873,000	\$130,599,000	\$130,661,000	\$138,682,000	\$138,591,000	\$138,591,000	\$144,674,877

Notes:

- (1) The Project budget is estimated on a quarterly basis (i.e. September 30th, December 31st, and March 31st) and compared to the adopted fiscal year budget by June 30th. Costs shown through Q2 FY 20/21 include the design-build agreement with Filanc/Black & Veatch (Overland), Carollo's Program Management Contract (including subcontracting consultants), and other City consultants. Beginning Q3 FY20/21 this table will reflect updated contract amendments and new adopted budgets.
- (2) Breakdown of the Q3 FY 20/21 contingency of \$3,608,977 is as follows: WRF = \$808,977; Conveyance Facilities = \$2,500,000; and Recycled Water Facilities = \$300,000.
- (3) As presented to City Council on May 25, 2021. Breakdown of the Q4 FY 20/21 contingency of \$6,892,854 is as follows: WRF = \$2,392,854; Conveyance Facilities = \$3,700,000; and Recycled Water Facilities = \$800,000.
- (4) The FY 20/21 budget adopted by City Council was \$130,596,361. The numbers shown in this column, and all columns prior to Q3 FY 20/21, are preserved from prior year quarterly reports.
- (5) Starting in Q4 FY 20/21, General Project includes construction management of the Water Reclamation Facility and the Conveyance Facilities as part of the Program Management costs.

Table 3 Estimates at Completion

Project Component	Original Estimate	Initial Contract Value	Current Contract Value	Expenditures to Date	Estimate at Completion ⁽¹⁾
Design/Build WRF	\$62,414,000	\$67,234,512	\$75,565,877	\$32,009,951	\$73,565,000
Design/Build (FBV/Overland)	--	\$67,234,512	\$75,565,877	\$32,009,951	\$73,565,000
Conveyance Facilities	\$21,087,000	\$32,854,240	\$33,539,070	\$7,715,217	\$34,214,311
Design (Water Works Engineers)	--	\$1,360,565	\$2,045,395	\$2,031,835	\$2,214,311
Construction (Anvil Builders)	--	\$31,493,675	\$31,493,675	\$5,683,382	\$32,000,000
Recycled Water Facilities⁽⁵⁾	\$8,593,000	\$351,000	\$933,650	\$489,157	\$6,668,000
Design (GSI)	--	\$351,000	\$933,650	\$489,157	\$933,650
Construction	--	--	--	--	\$5,734,350
General Project	\$24,403,000	\$293,000	\$7,766,621	\$15,195,101	\$25,589,712
City Costs ⁽²⁾	--	--	--	\$9,197,297	\$11,889,712
Program Management (Carollo) ⁽³⁾	--	\$293,000	\$6,354,050	\$4,978,034	\$12,200,000
City Contracts ⁽⁴⁾	--		\$1,412,571	\$1,019,770	\$1,500,000
Contingency	\$9,444,000	--	--	--	\$4,637,854
Water Reclamation Facility	--	--	--	--	\$1,437,854
Conveyance Facilities	--	--	--	--	\$2,700,000
Recycled Water Facilities	--	--	--	--	\$500,000
Total	\$125,941,000		\$117,805,218	\$55,409,426	\$144,674,877

Notes:

- (1) Beginning with the Q4 Fiscal Year 2020/2021 report, the EAC reflects the adopted City budget for Fiscal Year 2021/2022.
- (2) City costs include staff salaries and benefits, legal services, land acquisition, supplies, and equipment, etc.
- (3) Program management costs include permitting, public outreach, funding support, and construction oversight/management.
- (4) Costs shown for City contracts include previous consultants (such as MKN, Black & Veatch, ESA, and Kestrel) and current consultants including Far Western, GSI, Bartle Wells Associates, Kevin Merk & Associates, etc.
- (5) Recycled Water Facilities Expenditures to Date costs include injection well planning and permitting by Kevin Merk & Associates, Far Western, and Guida, as well as hydrogeologic modeling by GSI.

Section 2

KEY PERFORMANCE MEASURES

2.1 Performance Measures

A set of five (5) Key Performance Indicators (KPIs) were established to readily measure the progress of the Project. These KPIs represent various success factors associated with the WRF project management and delivery that were established by the Program Manager and City staff and are summarized as Table 4.

Table 4 WRF Project Performance Measures (through June 2021)

Performance Measure	Data	Baseline (Q4FY 19/20)	Current (Q4 FY 20/21)	Delta	Status	Ⓜ	Ⓜ	Ⓜ
1: Total Project Costs	Total Project Projected Cost at Completion versus the Baseline Budget	\$130.7 M	\$144.7M	\$14.0M	Ⓜ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.1: WRF Costs	On Site WRF Projected Cost at Completion versus the Baseline Budget	\$77.8 M	\$73.6 M	\$(4.2)M	Ⓜ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.2: Conveyance Facilities Costs	Conveyance Facilities Projected Cost at Completion versus the Baseline Budget	\$29.8 M	\$34.2 M	\$4.4 M	Ⓜ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.3: Recycled Water Facilities Costs	Off Site Injection Facilities Projected Cost at Completion versus the Baseline Budget	\$5.5 M	\$6.7M	\$1.2 M	Ⓜ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
1.4: General Project Costs	General Project Projected Cost at Completion versus the Baseline Budget	\$13.3 M	\$25.6	\$12.3M	Ⓜ	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget	Estimated cost > 10% above target budget
2: Program Manager Earned Value	Ratio of Program Manager Earned Value to Actual Invoiced Cost-to-Date	1.00	1.00	0.0	Ⓜ	>= 1.00	0.99 to 0.90	< 0.90
3: Schedule Performance Index	Ratio of Planned Percent Complete to Actual Percent Complete	1.00	1.02	0.02	Ⓜ	>=1.00	0.99 to 0.80	<0.80
4: TSO Compliance Date Countdown	Days Remaining to TSO Compliance Date of February 28, 2023	789	608	181	Ⓜ	<= 365 days	364 days and 180 days	> 179 days

Section 3

PROJECT COSTS

3.1 Project Budget

The overall budget status for the Project is summarized in Table 5. Table 5 provides a summary of total estimated Project costs, including original and current estimated costs for the entire Project.

Table 5 WRF Project Overall Budget Status (through June 2021)

Summary of Total WRF Project Cost	
Original Baseline WRF Project Budget ⁽¹⁾	\$125,941,000
Adopted FY 20/21 WRF Project Budget ⁽²⁾	\$130,596,361
Adopted FY 21/22 WRF Project Budget ⁽²⁾	\$144,674,877
Adopted Budget Percent Change (FY 20/21 to FY 21/22)	10.8%
Total Expenditures for FY 20/21 Q4 (4/01/21 to 6/30/21)	\$13,289,559
Total Expenditures to Date (thru 6/30/21 invoices)	\$55,409,426
Percent of FY 20/21 WRF Project Budget Expended to Date	42.4%
Percent of FY 21/22 WRF Project Budget Expended to Date	38.3%

Notes:

(1) Developed in June 2018 as the basis of the approved rate surcharge that took effect in July 2019.

(2) The budget for the Project is reviewed on an annual basis near the end of each fiscal year (May) and is used as the basis of performance for the Project for the upcoming fiscal year.

3.2 Quarterly Expenditures by Budget Code

The current quarterly expenditures as reported by the City's corresponding budget performance report and according to adopted City budget code designations are summarized below in Table 6, and further summarized by project component in Table 7.

Table 6 Quarterly Expenditures by Budget Code

City Budget Code ⁽¹⁾	Fund Name	Total Q4 FY20/21 Expenditures	Vendor Name	Project Component
4120	Overtime Pay	13,443.02	City of Morro Bay	General Project
4310	Part-Time Pay			
4910	Employer Paid Benefits			
4911	Pension Normal Cost			
4999	Labor Costs Applied			
Total Personnel Services		13,443.02	City of Morro Bay	General Project
5114	Laboratory Testing Supplies	729.84	Various	Water Reclamation Facility
5115	Water Distribution System Supplies			
5199	Miscellaneous Operating Supplies			
Total Supplies		729.84	Various	Water Reclamation Facility
6101	Legal Services – General	31,717.21	Aleshire & Wynder	General Project
6103	Financial Audits	3,860.00	The Pun Group	General Project
6107	Advertising	-	-	-
5307	Blueprint/Copy Charges	-	-	-
6220	Postage (Included in 6710)	-	-	-
6301	Electricity	4,384.76	PG&E	Water Reclamation Facility
6303	Water	996.50	City of Morro Bay	Water Reclamation Facility
6510	Meetings & Conferences	-	-	-
6513	Meals & Lodging	-	-	-
6514	Travel Expense	-	-	-
6640	Maintenance Contracts	-	-	-
6710	Notices & Publications	-	-	-
Total Services		40,958.47	Various	Various
6104	Engineering Services	79,677.90	GSI Water Solutions	Recycled Water Facilities
6105	Consultation Services	95,531.45	Bartle Wells, Ferguson Group, Cogstone, KMA	General Project
6152	Outside Lab Testing	16,194.00	Various	General Project
6161	Licenses & Permits	2,848.00	State Water Resources Control Board	Water Reclamation Facility
6195	Rate Study	-	-	-
6196	Program Management & DB Procurement	879,128.40	Carollo Engineers and Subconsultants ⁽²⁾	General Project
6197	Grant Support	-	-	-
6198	Government Relations	71.38	Ferguson Group	General Project
6640	Maintenance Contracts	-	-	-
7101	Land Acquisition	12,650.00	STMJ	Conveyance Facilities
Total Project Soft Costs		1,086,101.13	Various	Various
6106	Contractual Services	5,114,250.41	Anvil Builders; JSP Automation	Conveyance Facilities
7103	Design/Build-On-Site Improvement Design Phase	-	-	-
7104	Design-Lift Station/Force Main	85,615.33	Water Works Engineers	Conveyance Facilities
7105	Planning & Permitting	9,617.64	Far Western	Conveyance Facilities
7106	Design-Injection Wells & Recycled Water Pipeline	-	-	-
7107	Design/Build-On-Site Improvement Build Phase	6,938,843.27	FBV Overland	Water Reclamation Facility
7108	Injection Well Construction	-	-	-
7109	Lift Station/FM Construction Phase	-	-	-
7110	Pilot Well Construction	-	-	-
Total Construction Costs		\$12,148,326.65	Various	Various
Total Quarterly Expenditures		\$13,289,559.11		

Notes:

(1) Budget codes correspond to the City’s adopted budget for current fiscal year and paid invoices correspond with the City’s budget performance report for those codes. Opportunities to reallocate invoice codes or consolidate codes will be considered in future quarters.

(2) Carollo Engineers’ active subconsultants include the following: CM Solutions/Quest (Conveyance Facilities schedule review), Earth Systems (Conveyance Facilities materials testing and special inspection), Guida (surveying), Katz & Associates (public outreach), KMA (biological resources services), Underwater Resources, Inc. (outfall analysis), Mimiaga Engineering Group (WRF Construction Management), Penny Carlo Engineering (industrial users permitting) and Yeh and Associates (geotechnical engineer).

(3) Total expenditures for this quarter are derived from budget performance reports provided by the City approximately one week after end of quarter.

Table 7 Quarterly Expenditures by Project Component

Project Component	Expenditures (Q4 FY 20/21)
Water Reclamation Facility	\$6,947,802
Conveyance Facilities	\$5,222,133
Recycled Water Facilities	\$79,678
General Project	\$1,039,946
Total	\$13,289,559

3.3 Project Cash Flow

Figure 1 presents the projected and actual expenditures for the Project through June 2021 compared to the Fiscal Year 2021/2022 budget developed at the end of Q4 Fiscal Year 2020/2021. The line graph shows the cumulative values for the Project and the bars show the discrete monthly values. Actual and budgeted expenditures from 2013 to the end of Fiscal Year 2018/2019 have been combined to improve readability. The cumulative actual and cumulative forecasted expenditures show anticipated project costs over the project duration. The milestone markers correspond to the final completion deadline of the WRF and Conveyance elements of the project by February 2023, which coincides with the City being in compliance with the Time Schedule Order (TSO) issued by the Regional Water Quality Control Board (RWQCB) in June 2018.

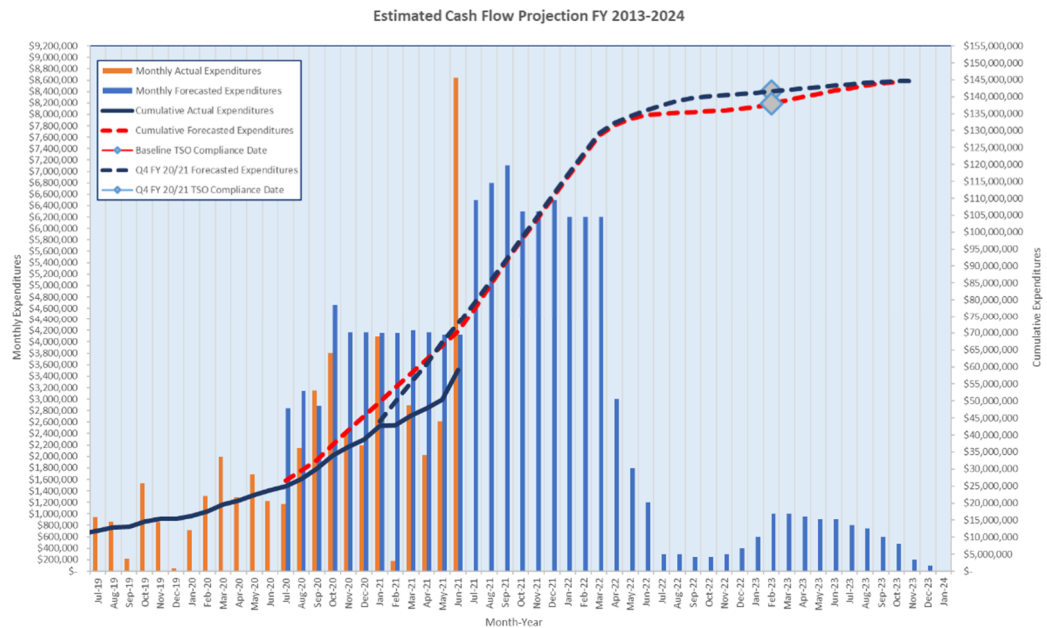


Figure 1 Project Cash Flow Projections and Actual Expenditures

A breakdown of the current Q4 Fiscal Year 2020/2021 budget by fiscal year is included in Table 8.

3.4 Project Cost Summary

Table 9 summarizes the cost-to-date and contracted amounts for each of the elements of the Project. This table also provides the current cost estimate for each project. Detailed information on the individual elements of the Project is provided in Section 7 of this Report.

Table 8 WRF Project Cost Fiscal Year Budget Projections

Project Component	Total Project Expenditures to Date as of Q3 ⁽⁸⁾	Total Project Expenditures to Date as of Q4 ⁽¹⁾	FY 20/21	FY 21/22 ⁽²⁾	FY 22/23 ⁽²⁾	FY 23/24 ⁽²⁾	Q4 FY 20/21 Total Project Budget ⁽²⁾
WRF	\$30,136,218	\$37,084,020	\$16,042,813	\$33,609,031	\$700,000	\$-	\$73,677,796 ⁽³⁾
Conveyance Facilities	\$2,622,801	\$7,844,934	\$15,139,745	\$22,289,569	\$-	\$-	\$38,802,964 ⁽⁴⁾
Recycled Water Facilities	\$512,915	\$592,593	\$1,052,168	\$2,025,000	\$3,000,000	\$3,000,000	\$8,280,570 ⁽⁵⁾
General Project	\$8,847,933	\$9,887,879	\$672,268	\$7,748,516	\$1,181,402	\$283,750	\$23,913,546 ⁽⁶⁾
Subtotal	\$42,119,867	\$55,409,426	\$32,906,994	\$65,672,116	\$4,881,402	\$3,283,750	\$144,674,877
Contingency ⁽⁹⁾	\$-	\$-	\$1,255,636	\$-	Note ⁽⁷⁾	Note ⁽⁷⁾	Note ⁽⁷⁾
Total	\$42,119,867	\$55,409,426	\$34,162,629	\$65,672,116	\$4,881,902	\$3,283,750	\$144,674,877

Notes:

- (1) This table reflects activity through June 30, 2021 using the quarterly expenditures by project component allocations shown in Table 6.
- (2) This quarterly report (ending June 2021) Total Project Budget projection reflects the new FY 21/22 WRF Project budget as adopted by City Council as well as future fiscal year City budget projections.
- (3) Breakdown of the Water Reclamation Facility budget beginning Q4 FY20/21 by codes from the newly adopted FY21/22 budget: 7103 (Design/Build WRF Onsite Imprv) = \$59,686,921 and 7107 (Design/Build – On-site Imprv Build Phase) = \$13,990,875. Budget reallocation from another code will be needed during FY 21/22.
- (4) Breakdown of the Conveyance Facilities budget beginning Q4 FY20/21 by codes from the newly adopted FY21/22 budget codes: 7104 (Design-Lift Station/Force Main) = \$2,396,412 and 7109 (Liftstation Pipeline Construction) = \$36,406,552.
- (5) Breakdown of the Recycled Water Facilities budget beginning Q4 FY20/21 by codes from the newly adopted FY21/22 budget: 7106 (Design-Inj Wells & Recycled Water Pipeline) = \$1,695,570; 7108 (Injection Well Construction) = \$6,285,000 and 7110 (Pilot Well Construction) = \$300,000.
- (6) Breakdown of the General Project budget beginning Q4 FY20/21 includes the remaining codes from the newly adopted FY21/22 budget not specified in (4), (5), or (6) above. Starting in Q4 FY 20/21, General Project includes construction management of the Water Reclamation Facility and the Conveyance Facilities as part of code 6196 (Prog Mgmt & DB Procure).
- (7) Beginning Q4 FY 20/21 the contingency budget is not broken out within the latest adopted City budget but is accounted for in each project component.
- (8) Q3 Actual Expenditures to Date for General Project, Subtotal, and Total shown has been reduced by \$3,663,000 of uncontracted costs including City costs (i.e., labor, expenses, etc.) as indicated in Table 7, Note 2 of the December 2020 Quarterly Report. This is an update to the Q2 and Q3 actual expenditures to date as shown in Table 7 of the March 2021 Quarterly Report.
- (9) Contingency shown is from the December 2020 Quarterly Report, Table 6.

Table 9 WRF Project Cost Summary (through June 2021)

Project Component	Q4 Actual Expenditures to Date	Contracted Amount to Date	Contracted Amount Expended to Date (%)	Anticipated Total Project Cost ⁽²⁾	Anticipated Total Project Cost Expended to Date (%)
WRF	\$37,084,020	\$75,565,877	49.1	\$75,002,854	49.4
Conveyance Facilities	\$7,844,934	\$33,539,070	23.4	\$36,914,311	21.3
Recycled Water Facilities	\$592,593	\$933,650	63.5	\$7,168,000	8.3
General Project	\$9,887,879 ⁽¹⁾	\$7,766,621 ⁽¹⁾	22.8 ⁽³⁾	\$25,589,712	38.6
Total	\$55,409,426	\$117,805,218	47.0	\$144,674,877	38.3

Notes:

- (1) General Project actual expenditures to date include prior contracts from previous program consultants that are no longer active. General Project contracted amount to date shows active contracts.
- (2) Contingencies included in each project component.
- (3) General Project contracted amount expended to date as a percent assumes that actual expenditures to date of active contracts are accrued after the baseline Q2 FY 20/21 amount of \$8,115,000.

3.5 Detailed Project Costs

The following tables (10 to 13) show the detailed costs to date for active contracts for each element of the Project.

Table 10 General Project Activities Cost Summary (through June 2021)

Consultant / Contractor	Actual Expenditures to Date ⁽¹⁾	Total Contracted Cost	Contract Expended to Date (%)
ESA	\$412,080	\$412,320	99.9
Far Western	\$285,562	\$397,079	71.9
Bartle Wells Associates	\$72,567	\$100,800	72.0
JoAnn Head Land Surveying	\$97,693	\$102,644	95.2
JSP Automation	\$43,450	\$63,500	68.4
Cogstone	\$97,548	\$264,918	36.8
Kevin Merk & Associates	\$10,870	\$71,310	15.2
Carollo Engineers, Inc. ⁽²⁾	\$4,978,034	\$6,354,050	78.3
Total	\$5,997,804	\$7,766,621	77.2

Notes:

(1) Actual expenditures to date as indicated on City budget performance report and total contracted cost only includes contracts that are currently active.

(2) Includes all Carollo subcontractors under Program Management Contract.

Table 11 WRF Cost Summary (through June 2021)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost ⁽¹⁾	Contract Expended to Date (%)
Overland Contracting	\$32,009,951	\$75,565,877	42.4
Total	\$32,009,951	\$75,565,877	42.4

Notes:

(1) Total Contracted Cost includes final value for Amendment No. 1 through No. 5 of \$1,636,060, \$63,937, \$5,992,218, \$835,097 and \$(195,946) respectively and the original contract value of \$67,234,512.

Table 12 Conveyance Facilities Cost Summary (through June 2021)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
WWE	\$2,031,835	\$2,045,395	99.9
Anvil Builders	\$5,683,382	\$31,493,675	18.0
Total	\$7,715,217	\$33,539,070	23.0

Table 13 Recycled Water Facilities Cost Summary (through June 2021)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
GSI	\$489,157	\$933,650	52.4
Total	\$489,157	\$933,650	52.4

3.6 Change Orders

The following Amendments have been approved by City Council and have been incorporated into the design-built team's contract and resulted in a revision of the guaranteed maximum price (GMP). Tables 14 through 18 lists the change orders associated with each Amendment.

- Amendment No. 1 – May 2019
- Amendment No. 2 – March 2020
- Amendment No. 3 – May 2020
- Amendment No. 4 – November 2020
- Amendment No. 5 – March 2021

Table 14 Summary of Approved Change Orders (Amendment No. 1)

Contract	Change Order No.	Description	Value
WRF	01	New Sodium Hypochlorite Feed for Plant Water	\$78,576
WRF	02	Change Architecture of Operations Building	\$(21,623)
WRF	03	Headworks Odor Control	\$18,422
WRF	04	Remove Canopy and Monorail at membrane bioreactor (MBR)	\$(185,434)
WRF	05	Consolidate Chemical Facilities	\$218,978
WRF	06	Modify Chemical Piping	\$(15,856)
WRF	07	Remove Solids Dumpster Lid	\$14,543
WRF	08	Add SAFE Equalization Tank	\$504,116
WRF	09	Instrumentation and Control Changes	\$75,266
WRF	10	Revise Maintenance Building Layout and Size	\$516,583
WRF	11	Influent Piping and Metering	\$411,766
WRF	12	Install Outdoor-Rated Positive Displacement Blowers at BNR Facility	\$(58,210)
WRF	13	Remove Bypass of Coarse Screens	\$(37,137)
WRF	14	SAFE Diversion Box Additions	\$58,304
WRF	15	Size Dewatering as a Building in the Future	\$30,983
WRF	16	Stairs for the Coarse Screens and Grit Basins (total of 4)	\$52,870
WRF	17	Indirect Potable Reuse (IPR) Product Water Tank Bypass	\$(26,087)
Total			\$1,636,060

Table 15 Summary of Approved Change Orders (Amendment No. 2)

Contract	Change Order No.	Description	Value
WRF	65	Davis-Bacon Wage Increases	\$63,937
Total			\$63,937

Table 16 Summary of Approved Change Orders (Amendment No. 3)

Contract	Change Order No.	Description	Value
WRF	16	Modify Outfall Pump Station	\$367,632
WRF	19	Reduce Size of the Product Water Tank	\$(129,681)
WRF	32	Sulfuric Acid System	\$315,652
WRF	37	PLC/SCADA Software Uniformity (MBR, RO, and Headworks Only)	\$201,577
WRF	39	NTP Delay	\$1,220,532
WRF	40	Headworks Valve Automation	\$249,946
WRF	41	Perimeter Barbed Wire Fence	\$79,935
WRF	42	UV/AOP System Modifications	\$(33,481)
WRF	44	Tank Access Improvements	\$210,327
WRF	45	Maintenance Ceiling Revisions and Automated Roll-Up Door	\$21,009
WRF	46	Curbed Washdown Areas	\$76,250
WRF	47	Changes to Furnishings and Residential Equipment	\$85,194
WRF	50	Revisions to Water/Sewer Supply Storage Sheds	\$13,142
WRF	52	Analyzer Relocation and Enclosures	\$76,555
WRF	55	Notice of Dispute - PG&E Temporary Power	\$13,163
WRF	56	Impacts of Water Quality Changes	\$282,420
WRF	57	Soil Lateral Earth Pressure	\$116,329
WRF	58	Permanent Exclusion Fencing	\$855,991
WRF	59	Increased Escalation Costs	\$1,232,677
WRF	61	Potential Change Order (PCO) Design Impacts	\$158,172
WRF	62	Conduit Alternative Design	\$(268,400)
WRF	64	Reduce Performance Period	\$(35,450)
WRF	66	Caltrans Intersection Improvements	\$(21,893)
WRF	67	BNR System Modifications	\$742,405
WRF	68	SAFE Equalization Settle Tank Drain Piping	\$62,215
WRF	69	Third Party Inspection and Testing	\$100,000
Total			\$5,992,218

Table 17 Summary of Approved Change Orders (Amendment No. 4)

Contract	Change Order No.	Description	Value
WRF	30	Match Sludge Blowers to MBR Scour Blowers	\$17,426
WRF	71	California Department of Fish and Wildlife (CDFW) Site Access Restrictions	\$254,443
WRF	72	Owner Trailer Utility Hook Ups	\$19,593
WRF	73	Man Gates in Perimeter Fence	\$27,031
WRF	74	Parking Canopy Electrical Receptacles	\$42,346
WRF	75	Security Window at Admin Building	\$11,079
WRF	76	Additional Sodium Bisulfite Pump	\$58,243
WRF	78	Changed Condition - Soil Slip	\$280,013
WRF	79	Modify Water and Collection System Supply Shed	\$10,847
WRF	82	SCADA Uniformity	\$108,887
WRF	86	Water Shut Off Valve in Theresa Road	\$5,189
Total			\$835,097

Table 18 Summary of Approved Change Orders (Amendment No. 5)

Contract	Change Order No.	Description	Value
WRF	84	Alternate Red Legged Frog Barrier (Ref. PCO 58)	\$(468,768)
WRF	87	Modify Alternate Conduit Design Scope (Ref. PCO 62).	\$272,822
Total			\$(195,946)

3.7 Reimbursement from Funding Agencies

In 2017, the City was awarded a \$10.3 million planning loan from the CWSRF program. To date, the City has made three reimbursement requests for the planning loan. The City is preparing to submit the fourth and final reimbursement request, which is anticipated to maximize the remaining loan budget. In February 2020, the City executed a \$61.7 loan with the Environmental Protection Agency's (EPA's) Water Infrastructure and Innovation Act (WIFIA) program. To date, a total of 13 WIFIA reimbursement requests have been made. A summary of these requests is presented in Table 19.

Table 19 Summary of Reimbursement Requests

Agency	Description	Number	Date Submitted	Requested Amount	Approved Amount	Received?
SWRCB	CWSRF Planning Loan	01	Dec 2018	\$289,595	\$217,441	Yes
SWRCB	CWSRF Planning Loan	02	Nov 2019	\$6,431,295	\$5,312,748	Yes
SWRCB	CWSRF Planning Loan	03	Oct 2020 ⁽¹⁾	\$4,783,797	\$2,415,669	No
EPA	WIFIA Loan	01	May 2020	\$1,100,944	\$1,100,944	Yes
EPA	WIFIA Loan	02	Jun 2020	\$61,014	\$50,486	Yes
EPA	WIFIA Loan	03	Jul 2020	\$3,489,409	\$3,489,409	Yes
EPA	WIFIA Loan	04	Jul 2020	\$2,461,121	\$2,461,121	Yes
EPA	WIFIA Loan	05	Aug 2020	\$142,864	\$142,864	Yes
EPA	WIFIA Loan	06	Oct 2020	\$1,635,106	\$1,635,106	Yes
EPA	WIFIA Loan	07	Dec 2020	\$3,008,573	\$3,008,573	Yes
EPA	WIFIA Loan	08	Dec 2020	\$3,671,499	\$3,671,499	Yes
EPA	WIFIA Loan	09	Jan 2021	\$5,553,852	\$5,553,852	Yes
EPA	WIFIA Loan	10	Mar 2021	\$2,440,399	\$2,440,399	Yes
EPA	WIFIA Loan	11	Apr 2021	\$1,621,783	\$1,621,783	Yes
EPA	WIFIA Loan	12	May 2021	\$2,988,342	\$2,988,342	Yes
EPA	WIFIA Loan	13	Jun 2021	\$3,544,987	\$3,544,987	Yes
Total				\$43,224,580	\$39,655,223	

Notes:

- (1) Reimbursement No. 3 for the CWSRF Planning Loan was originally submitted in December 2019 and was resubmitted in October 2020.
- (2) The majority of the remaining balance of the CWSRF Planning Loan after Reimbursement No. 3 will be requested as Reimbursement No. 4. Construction costs included in the Reimbursement No. 3 request and disallowed will be requested from the CWSRF Construction Loan.

Section 4

PROJECT SCHEDULE

A summary of the Project schedule is presented in Figure 2. The light blue bars for each major task represent the planned progress based on the baseline schedule. The dark blue bars represent the current actual progress through March 2021. For each major line item, the schedule performance index (SPI) has been provided as well as an overall SPI for the entire Project. The SPI is a ratio of the planned percent complete versus the current actual percent complete. A SPI of greater than 1.00 indicates that the Project is on or ahead of schedule and a SPI of less than 1.00 indicates the Project is running behind the planned schedule.

4.1 Project Milestones

In June 2018, the City received a TSO from the RWQCB. The TSO requires the City to comply with a time schedule that will, within five years of adoption, allow the City to achieve full compliance with biochemical oxygen demand (BOD) and total suspended solids (TSS) final effluent limitations established in Order No. R3-2017-0050. In addition to the final compliance date, a number of intermediate milestones are provided in Table 3 (Compliance Schedule) of the TSO. Presented in Table 20 are the milestones in the TSO.

Table 20 Time Schedule Order Milestone Summary

Required Actions	Compliance Due Date	Planned Compliance Date	Actual Compliance Date
Release of Public Draft EIR	March 30, 2018	-	March 30, 2018
Release of Updated Rate Study	June 30, 2018	-	July 05, 2018
Proposition 218 Hearing	August 30, 2018	-	September 11, 2018
Certification of Final EIR	June 30, 2018	-	August 14, 2018
Award of Contract for WRF	September 30, 2018	-	October 23, 2018
Develop, Implement, and Submit Pollution Prevention Plan (PPP) for BOD and TSS	December 01, 2018	TBD ⁽¹⁾	-
Award of Contract for Construction of Conveyance Facilities	November 30, 2019	-	November 10, 2020
Completion of WRF Improvements with Completion Report	December 30, 2022	July 05, 2022	-
Full TSO compliance with final effluent limitations	February 28, 2023	July 05, 2022	-

Notes:

- (1) The City and Program Manager have noted this requirement in the previous quarterly progress reports sent to the RWQCB (as required by the TSO). The City has requested that the Enhanced Source Control Program (EHSP) required as part of the Title 22 Engineer's Report be considered acceptable for this requirement in lieu of the PPP identified in the TSO.

Printed Date: 7/28/2021
Status Date: 6/28/2021



Table 21 lists an expanded milestone schedule. It has also been developed for outstanding Project activities.

Table 21 Expanded Milestone Schedule

Milestone	Baseline Schedule due Date	Planned Completion Date
<u>General Project</u>		
Compliance with the TSO ⁽¹⁾	November 11, 2021	July 05, 2022
<u>Water Reclamation Facility</u>		
Begin Construction	August 08, 2019	March 20, 2020 (Actual)
Deliver 90 Percent Design	October 24, 2019	March 31, 2020 (Actual)
Substantial Completion	November 11, 2021	July 05, 2022
Final Completion	June 09, 2022	August 30, 2022
<u>Conveyance Facilities</u>		
Deliver 90 Percent Design	October 15, 2019	February 10, 2020 (Actual)
Deliver 100 Percent Design	December 17, 2019	June 15, 2020 (Actual)
Bid Advertisement	February 21, 2020	June 16, 2020 (Actual)
Award Construction Contract	May 08, 2020	November 10, 2020 (Actual)
Substantial Completion	September 17, 2021	March 11, 2022
Final Completion	November 19, 2021	April 25, 2022
<u>Recycled Water Facilities</u>		
Select Preferred Injection Area	May 28, 2019	June 17, 2020 (Actual)
Deliver 30 Percent Design	August 04, 2020	December 22, 2021
Deliver 60 Percent Design	November 10, 2020	March 30, 2022
Deliver 90 Percent Design	February 16, 2021	June 15, 2022
Deliver 100 Percent Design	April 27, 2021	September 14, 2022
Award Construction Contract	July 21, 2021	December 07, 2022
Substantial Completion	April 21, 2022	November 11, 2023
Final Completion	June 21, 2022	December 06, 2023

Notes:

(1) The TSO requires compliance with full secondary treatment by February 28, 2023.

Section 5

DESIGN AND PROCUREMENT

5.1 Design Status

No new design contracts for the Project were executed in Q4 Fiscal Year 2020/2021. A summary of the existing design contracts is included in Table 22 below.

Table 22 Design Status (through June 2021)

Project Element	Current Contract Amount	Amount Expended	Percent				Final
			30	60	90	100	
WRF (Design-Build)	\$76,565,877	\$32,009,951	✓	✓	✓	✓	NA
Conveyance Facilities	\$2,045,395	\$2,031,835	✓	✓	✓	✓	✓
Recycled Water Facilities	\$933,650	\$489,157	-	-	-	-	-

5.2 Procurement

No design or design-build contract procurements were performed in Q4 FY 2020/2021. Table 23 presents a summary of the procurement activity for the Project.

Table 23 Procurement Status (through June 2021)

Project Element	Circulate Request for Proposals	Proposal Opening Date	Council Award Date	Notice to Proceed Date	Consultant
WRF	January 24, 2018	May 8, 2018	October 23, 2018	November 1, 2018	Overland Contracting (Filanc-Black & Veatch)
Conveyance Facilities	January 31, 2017	March 8, 2017	November 14, 2017	November 15, 2017	Water Works Engineers
Recycled Water Facilities	GSI is currently completing permitting and planning activities. Design Engineer to be Selected in FY 2021/22				

Section 6

CONSTRUCTION STATUS

6.1 Construction Summary

During Q4 Fiscal Year 2020/2021, construction continued for the WRF and commenced for the Conveyance Facilities. Table 24 presents a summary of project construction progress and costs through June 30, 2021.

Table 24 Project Construction Costs

Project Name	Amount Expended	Initial Contract Amount	Current Contract Amount	% Change in Contract Amount
WRF	\$32,009,951	\$67,234,512	\$75,565,877	12.4
Conveyance Facilities	\$5,683,382	\$31,493,675	\$31,493,675	0.0
Recycled Water Facilities	\$-	\$-	\$-	0.0
Construction Total	\$37,693,333	\$98,728,187	\$107,059,552	8.4

6.2 Upcoming Traffic Control

6.2.1 Planned Impacted Areas

Construction activities for the Conveyance Facilities continued in several work zones. The following work area are affected, throughout the duration of Q4 Fiscal Year 2020/2021:

- Pump Station A near the Existing WWTP on Atascadero Road.
- Pump Station B at the intersection of Quintana and Main Street.
- Pipeline installation along Quintana Road between Main Street and Kennedy Way.
- Pipeline installation along Quintana Road between La Loma and South Bay Boulevard.
- Trenchless installation preparations at Morro Bay Roundabout.

6.2.2 Hours of Planned Lane/Road Closures

The City approved traffic control plans for the 21 designated traffic areas that are outlined in the Project Plans. Throughout Q4, the necessary traffic control plans were set in place to provide a safe work area for the Contractor as well as provide a safe detour or means of through traffic for Morro Bay commuters. Anvil continues to have all of Quintana Road between South Bay Boulevard and La Loma completely closed except for protected access to the Benedict-Retty Mortuary and Crematorium and the Rock Harbor Christian Fellowship Church. Within the City proper, Anvil has closed parts of Quintana Road at Kennedy Way completely to perform work that would require full lane closures. Typically, areas within the City that require full lane closures will have specific construction activities occur at night. As Anvil progresses south along Quintana Road to the roundabout, the traffic control changes based on the location of the trench and pipeline configuration.

The community is encouraged to obtain additional information on current road closures/conditions from the WRF website (www.morrobaywrf.com) or by calling the Project hotline at 877-MORROBAYH2O.

6.3 Construction Safety

The Project safety goal is zero reportable incidents. Every weekly progress meeting includes a brief safety moment between the program team and both FBV and Anvil to discuss safety topics encountered in the field. There has been a total of zero reported incidents through June 30, 2021.

Section 7

OTHER PROGRAM ACTIVITIES

7.1 Public Outreach

As part of the construction of the Conveyance Facilities component of the Project, the Program Manager has been engaged in a number of public outreach activities including the following:

- Updated the WRF website with regular construction information on homepage and Construction Information page
- Coordinated with contractor for distribution of bilingual doorhangers on immediately impacted residences and businesses in several work areas from Main Street to South Bay Boulevard
- Continued to build stakeholder database email list for regular email correspondence
- Developed bi-weekly e-blasts to highlight construction schedule look-ahead information and promote virtual community outreach meetings
- Prepared for and conducted three monthly virtual community outreach meetings via Zoom
- Responded to regular community inquiries from project phone line and email address, and coordinated with team members when necessary
- Conducted multiple rounds of business visits to communicate about construction in specific areas
- Worked with construction team on traffic control configuration planning, and traffic control and circulation concerns from the community.

Additional near-term public outreach activities include:

- Developing bi-weekly e-blasts and as-needed construction notices to convey construction look-ahead information to stakeholders and the public
- Obtaining media coverage about milestone construction activities
- Working with contractor to distribute doorhangers to properties with 24-hour and seven-day lead times
- Visiting businesses before work in new areas
- Responding to inquiries received from community members

7.2 Permitting Activities

Permit compliance is an important aspect of the Project. The current permitting activities include:

- Regional Water Quality Control Board
 - In order to obtain a National Pollution Discharge Elimination System (NPDES), the City must submit a Report of Waste Discharge (ROWD) to the RWQCB. The Program Manager submitted the Draft ROWD to the RWQCB in March, which is currently under review.

- Division of Drinking Water:
 - The Title 22 Engineering Report is required by Division of Drinking Water (DDW) before the City can receive a potable reuse permit. The Program Manager delivered an initial Draft of the Title 22 Engineering Report to the City for review in June 2020. The revised draft, including comments from City staff, was submitted to DDW in July 2020. During Q3 Fiscal Year 2020/2021, the City and Program Manager have received comments from DDW and has had several meetings to review their comments.
 - The City is working with DDW to obtain a variance from their typical pipeline separation requirements due to the width of the trench for the Conveyance Facilities pipelines and the limited ROW for much of the alignment. The City has been coordinating with DDW on this issue since early 2019 and submitted a formal application to DDW in August 2020. Since that time, the City has had a meeting to review the information provided and has provided supplemental information to aid DDW's review. As of March 2021, The City has addressed the majority of DDW's comments and is expected to complete their response to DDW in July 2021.
- Caltrans:
 - The City obtained the encroachment permit from Caltrans for construction of the Conveyance Facilities pipelines in August 2020. In June the Program manager approached Caltrans to revise their encroachment permit for the conveyance facilities project to extend the permit expiration date and to revise the design at the Atascadero Road and Highway 1 on-ramp. The City is expecting to receive a response from Caltrans in late July 2021.
- California Department of Fish and Wildlife:
 - The City must have a Stream Bed Alteration Agreement (SAA) (as required) from the CDFW before work can begin along certain segments on the bike path for the Conveyance Facilities component of the Project. The City submitted the revised notification in January 2020 and received notification from CDFW on May 4 that their SAA had been approved and they are cleared for construction.
- State Historic Preservation Office:
 - The PA negotiated with the SHPO requires that a mitigation and monitoring plan be developed for each element of the project (i.e., WRF, pipelines, and injection wells). The City submitted the mitigation and monitoring plan to EPA for distribution to SHPO in October 2020. The City has received notification from the EPA regarding SHPO's response on March 15, 2021. The response stated that the City may proceed with construction by implementing the appropriate cultural resources monitoring and mitigation measures for areas along Main St., Quintana road and both lift stations. Far Western has performed the archeological clearance testing for the LS-2 alignment and the pilot injection well in late May 2021 and found the findings largely negative and is expected to submit a monitoring and mitigation for LS-2 alignment and the bike path alignment of the conveyance facilities in late July 2021.

7.3 Funding Status

- Continued to support CWSRF's technical, legal, and financial reviews. The City executed the CWSRF Construction Loan on June 30, 2021, however disbursements from both the

CWSRF construction loan and planning loan are on hold until the City's 2020 Urban Water Management Plan is complete.

- The United States Department of the Interior Bureau of Reclamation released its WaterSmart Title XVI WIIN Notice of Funding Opportunity in mid-March 2021. The City prepared an application and submitted to USBR on April 22, 2021.

7.4 City Operations Activity

The current City Operations activities include:

- Significant City Operations activities are not anticipated until start-up of the WRF begins in early 2022.

Section 8

PROJECT DETAILS

8.1 Water Reclamation Facility

8.1.1 Design/Build

In October 2018, the City executed a contract with Overland Contracting consisting of a joint venture of Filanc and Black & Veatch (i.e., design-build team) for design and construction of the WRF located at the South Bay Boulevard site. The WRF will be delivered using the design-build process.

8.1.2 Project Scope

The scope of this element of the Project includes a preliminary, secondary, and advanced treatment facilities. The secondary treatment processes will consist of an MBR and have the ability to exceed the anticipated discharge requirements for the City's new NPDES permit. The advanced treatment facilities include RO and UV-AOP. Purified water from the advanced treatment facilities will be injected into the Lower Morro Groundwater Basin.

8.1.3 Current Progress

The design-build team has continued to progress the construction of the WRF and is on track to reach substantial completion in July 2022. The construction has completed the following items:

On March 20, 2020, the City issued the construction NTP to the DB team for the WRF. For fiscal year Q4, the following activities were completed between April 1, 2021 and June 30, 2021:

Sitework

- The Contractor has completed nearly all major earthwork operations including filling, compacting, and rough grading entire site, including the north portion of site. (The only remaining major earthwork is the pending West Cut-Slope Landslide remediation).
- Contractor has installed / is currently installing the following yard piping (buried) and above grade piping systems:
 - 30-inch Wastewater Screened (WWS) line from SAFE Box to SAFE Settle Tank.
 - 20-inch Filter Inlet Water (FIW) line from SAFE Settle Tank to SAFE filter slab.
 - 18-inch and 14-inch Wastewater Raw (WWR) lines at Headworks area (on-going).
 - Chemical vaults and chemical system double containment duct banks (on-going).
 - IPR/Outfall Pump Station above grade suction/discharge piping (begin assembly).
 - Plant Recycled Water (PRW) distribution piping throughout north site area.
 - Filter Backwash (FBW) piping from SAFE System back to Sludge Holding Tanks (SHTs).
 - Storm Drainage piping and level spreader basin for Stormwater Pond No. 1.
 - Sanitary Sewer collection lines, laterals, and manholes throughout north site area.

- Electrical Subcontractor has completed construction of the following conduits, vaults, installations, etc.:
 - Conduit Duct Banks, including vaults and handholes, in the north site area for the Pacific Gas and Electric (PG&E) Transformer Pad, Electrical Building, Emergency Generator Facility, MBR Facility, Headworks, SAFE System, and Dewatering Facility, etc.
 - In-slab conduits for the Electrical Building, Emergency Generator Facility, MBR Facility, Headworks, SAFE System.
 - Conduits and light stanchion foundations for north site area lighting.
 - Continued PG&E facilities, nearly completing 4-inch conduit, vaults, Transformer Pad.
 - PG&E remaining work includes conduit run along WRF Access Road to Teresa Rd.
 - Electrical Subcontractor is also currently relocating a PG&E vault and segment of duct bank near Stormwater Pond No. 2 where it was determined that PG&E crew access for power conductor pulling was unacceptable.

Headworks

- Completed upper and lower Headworks Facility slabs, including concrete placements.
- Installed course Screens and Grit Tank equipment skids (Kusters) set in place at Headworks slab.
- Currently forming and placing rebar for SAFE Diversion Box (high flow diversion box at Headworks) and for the SAFE equipment slab (Cloth Disk Filter equipment slab south of Area 70). Also received delivery of the Aqua-Disk Cloth Media Filtration equipment.

BNR/MBR Treatment

- Completed MBR facility underslab and in-slab mechanical piping and electrical.
- Completed forming, rebar, and concrete for MBR slab and MBR cassette tank walls.
- Placed 2 each RO Feed Tanks (fiber-reinforced plastic [FRP] tanks) located at south end of MBR slab.

RO/UV-AOP

- Placed RO skids and ancillary equipment skids and tanks.
- Completed pre-engineered building steel framing erection for RO/UV Building.
- Completed CMU wainscot wall at building exterior perimeter.

Product Water Facilities

- Completed erecting the prefabricated Product Water Storage Tank.
- Placed the Calcite Contactor Backwash Tank and Balancing Tank (FRP tanks).
- Placed the 3 each IPR pumps, and 2 each of the 4 total Outfall pumps

Residuals/Sludge Processing

- Completed subgrade preparation for the sludge dewatering facility slab-on-grade.
- Currently completing dewatering facility underslab mechanical piping and electrical.

Electrical and Controls

- Completed subgrade preparation for Electrical Building and Generator Facility slabs.
- Completed underslab and in-slab conduits for building and generator slabs.
- Completed forming, rebar and concrete placement for building and generator slabs.

Chemical Storage and Feed

- Completed underslab and in-slab conduits for Chemical Facility slab-on-grade.
- Completed forming, rebar and concrete for Chemical Facility slab & containment areas.
- Completed equipment pads, CMU separator walls, and set FRP chemical storage tanks.

Operations Building

- Completed erection and assembly of the pre-engineered metal building components.
- Building interior work is on-going, including metal stud wall framing, concealed electrical conduits, HVAC equipment and ducting, fire protection systems, windows, etc.

Maintenance Building

- Partially completed erection and assembly of pre-engineered metal building.
- Continued building interior work is on-going, including metal stud wall framing, concealed electrical conduits, HVAC equipment and ducting, fire protection systems, etc.

City Yard Facilities

- Completed pre-engineered building steel framing erection for WRF Parking Canopy.
- Completed pre-engineered building steel framing erection for Water/Collections Shed.
- Completed pre-engineered building steel framing erection for Water/Collections Vehicles Equipment Storage Canopy.

8.1.4 Project Challenges

In late January 2021, following heavy rains (January 27 and 28, 2021), the previously mitigated soil slip reactivated and continues to move. The DB Team has provided field data for City review, but the geotechnical engineer has not yet provided its recommendation for the landslide remediation and it is expected in early July 2021.

Amendment No. 6 as outlined in Table 18 has not been approved by City Council and is pending review.

Table 25 WRF Performance Measures

Performance Measures	Target	Current
Construction Cost ⁽¹⁾	\$67.2M	\$75.6M
Construction Contingency ⁽²⁾	\$9.1M	\$2.3M

Notes:

(1) The GMP includes costs for both design and construction of the WRF.

(2) For Q4, the total contingency for all elements is approximately \$6.9M. Approximately \$2.3M is allocated to the WRF.

Table 26 WRF Construction Summary

Schedule		
Request for Bid / Bid Advertisement		January 24, 2018
Bid Opening Date		May 08, 2018
Contract Award / Council Award Date		October 23, 2018
Notice to Proceed (Design)		November 05, 2018
Notice to Proceed (Construction)		March 20, 2020
Original Final Completion Date		August 23, 2021
Original Duration (Non-Working Days)		886
Days Changed by Change Order		8
Actual Final Completion Date (including Non-Working Days)		August 31, 2022
Schedule Percent Complete		52.2% (467 days / 894 days)
Budget		
Engineer's Estimate (Construction Cost + 10% Construction Contingency)		\$73,475,845
Award Amount (including Design Cost)		\$67,234,512
Change Order Total		\$8,331,365
Current Contract Value		\$75,565,877
Percent Change		12.4%
Work Completed		
Actual Cost -to-Date		\$32,009,951
Percent Complete (Percent Expended)		42.4%
Construction Oversight Statistics		
	PCOs	COs
Total Received	99	N/A
Total Approved	N/A	58 ⁽¹⁾
Total Pending	11	0
Average Turnaround (calendar days)	N/A	N/A

Acronym List:

PCO – Proposed Change Order; CO – Change Order

(1) 57 PCOs have been approved and are reflected in Amendment No. 1, 2, 3, 4 and 5 to the Design-Build Agreement.

8.2 Conveyance Facilities

8.2.1 Designer

In November 2017, the City executed a contract with WWE for design and engineering support for the facilities necessary to connect the existing WWTP and the new WRF.

8.2.2 Contractor

The City awarded a contract to Anvil for construction of the Conveyance Facilities component of the Project on November 10, 2020. A construction NTP was issued on December 14, 2020 and Anvil began construction in January of 2021.

8.2.3 Project Scope

The Conveyance Facilities include the design of approximately 3.5 miles of pipelines and two (2) lift stations. The pipelines include two raw wastewater force mains, a wet weather/brine discharge force main, and a potable reuse pipeline to the west injection area.

8.2.4 Current Progress

General and Administrative

- Contractor continued to maintain SWPPP Best Management Practices (BMP).
- Contractor continued to adhere to pertinent Mitigation Measures stipulations.
- Contractor continued equipment submittals and procurement activities.
 - Submittal processing is on-going - 194 items submitted and/or approved to date.
 - Request for Information (RFI) Processing is on-going - 61 items submitted and/or resolved to date.
- The City and Contractor continued to review and analyze impacts from the 35-day ground disturbance moratorium imposed by SHPO (discussed elsewhere herein).
- The City continued its public relations/outreach effort including:
 - Monthly virtual meetings with stakeholders and affected business owners.
 - Multiple and periodic press preleases.
 - Interactive City website with project information, digital library of project documents, and other features including a portal for public inquiries, comments, and complaints. All public contacts are promptly responded to and logged.
 - Placement of informational door hangers 7 days, then again 24 hours, in advance of work commencement in a particular area.

Pump Station A

- Contractor completed installation of sheet pile shoring and dewatering systems for the deep wet well excavation; started excavation, but stopped above groundwater level.
- The City determined that groundwater from the excavation could not be discharged to sewer due to quantity and potential salinity. As such, Contractor was delayed while City staff obtained the necessary NPDES Dewatering Permit. As of the writing of the report, the City had obtained permit and the dewatering systems had been commissioned.
- Groundwater draw-down is in progress and continues into July.

Pump Station B

- Contractor completed installation of sheet pile shoring and dewatering systems for deep wet well excavation; contractor completed excavation and prepared structure subgrade.
- Completed forming, rebar and concrete placement for deep wet well slab and walls.
- Contractor leak tested wet well, backfilled structure, and removed sheet pile shoring.

Pipeline

The contractor is currently working at three different locations within the City for the pipeline installation of the Conveyance facilities. One crew is working from La Loma Avenue to the South Bay Boulevard, a second crew has been working near the intersection of Main St. and Quintana to the roundabout at the intersection of Quintana Road and Morro Bay Boulevard and a third crew continued to install the preparations for the trenchless construction activities beneath the City's roundabout.

The following items were completed in Q4 between La Loma Avenue to South Bay Boulevard:

- Contractor continued closure of this entire road segment during reporting period.
- Contractor maintained temporary above-grade sewer by-pass pipe along Quintana Rd.
- Continued potholing existing utilities as needed.
- Completed Joint Trench installation, backfill, paving from Sta 122 to Sta 145 (approx).
- Completed 10-inch IPR line installation, backfill, paving from Sta 122 to Sta 143 (approx).
- Completed 10-inch Waterline relocation, backfill, paving from Sta 122 to Sta 143 (approx).
- Continued Joint Trench work from Sta. 145, easterly toward South Bay Blvd.

The following items were completed in Q2 between Main Street to the roundabout:

- Completed Joint Trench installation, backfill, paving from Sta 64+28 to Sta 71 (approx).
NOTE: "Joint Trench" refers to FM1 & FM2 (wastewater force mains), BR (brine/outfall line), FO (fiber optic conduit), in some locations IPR in casing.
- Completed 12-inch Waterline Relocation (except paving) from Sta 71+00 to Sta 82+05.
- Continued Joint Trench work from Sta. 71, easterly toward Morro Bay Blvd.

The following items were completed in Q2 in preparation for trenchless construction at the roundabout:

- Contractor has installed sheet-pile shoring systems for the microtunnel launching and receiving pits (one pit in old U-Haul parking lot and other pit at Butte and Las Tunas).
- Contractor is currently excavating launch and receiving pits and preparing for microtunnel subcontractor mobilization in early July.
- The microtunnel machine launch is currently scheduled for second or third week of July.
- Contractor maintaining temporary above-grade sewer by-pass pipe along Quintana Rd.

8.2.5 Upcoming Activities

Anvil is scheduled to complete the following activities during Q4 FY 20/21:

- Installation of pipelines in Quintana Avenue between La Loma Avenue and South Bay Boulevard.
- Installation of pipelines in Main Street to Quintana Road.
- Shoring installation for Pump Station A and B excavation.
- Begin construction of Pump Station A.
- Begin construction of Pump Station B.

8.2.6 Project Challenges

The conveyance facilities project must undergo consultation by government agencies associated with the impacted project resources. The City was cleared by SHPO to proceed with construction in areas outside of the bike path, however the City and Program Team are still coordinating with the EPA, SHPO, and Far Western to proceed with developing a cultural resource monitoring and mitigation plan for the remaining components of the conveyance facilities project.

The City and Program Manager are focused on keeping the community informed of construction activities and will continue to use print media and the WRF website to present the most up to date information. To maintain the accelerated construction schedule, Anvil and the Program

team continue to provide adequate notice of traffic control detours, road closures, and access restrictions to minimize any delays in construction.

Active construction issues have included relocation of existing utilities that differed from what was indicated on the plans as well as inconsistent geologic conditions that have resulted in collapsed trench walls along the pipeline construction areas and extensive groundwater dewatering efforts at pump station A.

Table 27 **Conveyance Facilities Performance Measures**

Performance Measures	Target	Current
Construction Cost	\$24.2M	\$31.5M
Construction Contingency ⁽¹⁾	\$2.5M	\$1.7M
Number of Feet of Pipelines Constructed	18,500 lf	7,050 lf
Number of Days of Full Road Closures	N/A	10 Days
Number of Hours of Night Work	N/A	15 Hours

Notes:

(1) For Q4, the total contingency for all elements is approximately \$6.9M. Approximately \$1.7M is allocated to the Conveyance Facilities.

Table 28 **Conveyance Facilities Summary**

Schedule				
Request for Bid / Bid Advertisement		June 15, 2020		
Bid Opening Date		August 14, 2020		
Contract Award / Council Award Date		November 10, 2020		
Notice to Proceed for Construction		December 14, 2020		
Original Final Completion Date		February 22,2022		
Original Duration (Calendar Days)		435		
Days Changed by Change Order		Pending		
Actual Final Completion Date		April 22 nd , 2022		
Schedule Percent Complete		40.1%		
Budget				
Engineer's Estimate (Construction Cost + 10% Construction Contingency)		\$26,657,000		
Award Amount		\$31,493,675		
Change Order Total		\$0		
Current Contract Value		\$31,493,675		
Percent Change		0%		
Work Completed				
Actual Cost -to-Date		\$5,683,382		
Percent Complete (Percent Expended)		18.0%		
Length of Pipe Installed (Actual to Date / Planned Total)		7,050 lf / 18,500 lf		
Construction Management Statistics				
	RFIs	Submittals	PCOs	COs
Total Received	59	203	9	0
Total Responded To	48	199	0	0
Total Pending	11	4	0	0

8.3 Recycled Water Facilities

8.3.1 Designer

Procurement activities for the final design of the Recycled Water Facilities have not yet begun. The Program Manager also anticipates beginning preliminary design in early 2021 along with the pilot injection testing. Phase 1 and Phase 2 of the hydrogeological work has been completed by GSI and work on Phase 3 (i.e., pilot injection testing) will be completed in June 2021.

8.3.2 Contractor

This element of the Project is being delivered via a conventional design-bid-build procurement process. The Recycled Water Facilities will begin construction in late 2022/early 2023.

8.3.3 Project Scope

Since the potable reuse pipeline from the WRF to the selected injection site was moved into WWE's scope for design of the Conveyance Facilities, this element of the Project consists primarily of full-scale injection wells at the west injection site.

8.3.4 Current Progress

GSI has completed Phase 1 and is currently working on Phase 2 of the hydrogeological work, which has culminated in the selection of the west injection area and preliminary siting of the injection wells. In Q4, GSI has continued to progress on the approval of the Aquifer Storage and Recovery Permit with the State Water Resources Control Board. It is expected this permit will be approved by SWRCB in early July 2021 (Q1 FY/21/22). There has been no additional progress on the pilot injection well study in Q4.

8.3.5 Upcoming Activities

The next phase of hydrogeological work is pilot injection testing, which consists of the following elements:

- Design of the pilot injection well (Completed February 2021).
- Clearance of the pilot injection well by SHPO (Completed June 2021).
- Permitting for installation of the pilot injection well through San Luis Obispo County general well drillers permit (August 2021 ongoing).
- Construction of the pilot injection well (October 2021).
- Conducting pilot testing (Anticipated November 2021 to January 2022).

8.3.6 Project Challenges

The west side injection site resides within a 100-foot-wide permanent easement acquired by the City from Vistra Energy. The injection wells and all supporting infrastructure must be within this easement. To ensure that all construction activity and permanent infrastructure is within this easement, the site is to be topographically surveyed and the 100-foot-wide easement staked in the field. As part of the pilot injection well study, a temporary monitoring well is anticipated to be installed in August 2021.

Table 29 Recycled Water Facilities Performance Measures

Performance Measures	Target	Current
Construction Cost	TBD	\$0.0M
Construction Contingency	\$0.3M	\$1.2M

Notes:

(1) For Q4, the total contingency for all elements is approximately \$6.9M. Approximately \$1.2M is allocated to the Recycled Water Facilities.

Table 30 Recycled Water Facilities Summary

Schedule				
Selection of the Injection Site				N/A
Request for Bid / Bid Advertisement				N/A
Bid Opening Date				N/A
Contract Award / Council Award Date				N/A
Notice to Proceed for Construction				N/A
Original Final Completion Date				N/A
Original Duration (Calendar Days)				N/A
Days Changed by Change Order				0
Actual Final Completion Date				N/A
Schedule Percent Complete				0%
Budget				
Engineer's Estimate (Construction Cost + 10% Construction Contingency)				\$3,300,000
Award Amount				\$0
Change Order Total				\$0
Current Contract Value				\$0
Percent Change				0%
Work Completed				
Actual Cost -to-Date				\$0
Percent Complete (Percent Expended)				0%
Work Completed				
	RFIs	Submittals	PCOs	COs
Total Received	0	0	0	0
Total Responded to	0	0	0	0
Total Pending	0	0	0	0
Average Turnaround (calendar days)	NA	NA	N/A	N/A