



Staff Report

TO: Mayor, and City Council Members
FROM: Kristine Day, Assistant City Manager
DATE: April 21, 2020
SUBJECT: **Wastewater Treatment Plant Expansion/Renovation and Brine Pipeline Installation Project Status Update**

Background and Analysis:

Reach 1

- The contractor has completed all pipe installation and testing on this reach;
- Total pipeline installed for Reach One is 66,440 linear feet of brine line;
- Over the next three weeks the contractor will finish out paving restoration, record drawings and final accounting;
- Contractor has requested 50 inclement weather days to date; and
- The three week look ahead schedule is included as an attachment to this report (Attachment A).

Reach 2

- The contractor has completed pipe installation on a majority of the line with the exception of the directional drill, jack and bore and the cast in place vaults on E Street in the City of San Bernardino;
- During mobilization for the directional drill, the project encountered delays as a result of possible bird nesting but was eventually cleared for construction. At the time the driller received clearance, the project experienced 7 days of rain. This placed an approximately 3 week delay to the schedule;
- Pending any weather or environmental issues, the above work should be completed in 8-10 weeks;
- Approximately 50,832 linear feet of brine line has been installed to date;
- Contractor has requested 22 inclement weather days to date (pending updated request from the contractor); and
- The three week look ahead schedule is included as an attachment to this report (Attachment B).

Approved Change Orders:

CO No.	Contractor	Description	Reason for Change	Amount
1 (Potrero CO 10)	Ortiz	Brine Line Improvements (Pre-Authorized)	Addition of 12" Brine Line During Construction	\$238,615.70
2 (Potrero CO 11)	Ortiz	Brine Line Improvements (Remaining Work) (Force Account)	Addition of 12" Brine Line During Construction	\$324,043.15 Not to Exceed but direct to Force Account
3	Weka, Inc.	Brine Line Improvements Potrero Boulevard – 4 th Street	Addition of 12" Brine Line During Construction	\$646,482.65
4	Weka, Inc.	County of Riverside Encroachment Permit Credit	City Paid Fee for Encroachment	(\$45,460.00)
5	Weka, Inc.	Potrero Bridge / Caltrans Right-of-Way	Brine Line Installation Requirements	\$110,394.90
6	Weka, Inc.	Changes and Modifications to Brine Line Installation on 4 th Street & Potrero Rd.	Drain Installation, Add Vent Line to MH, and 4 th Street Brine Line Changes	\$12,821.87
7	T.E. Roberts, Inc.	Unknown Utility Crossings and Associated Potholing	Additional Potholes Not on Plans	\$14,300.00
8	Weka, Inc.	Heartland Parkway and Potrero Boulevard Site Condition Restorations	Site Condition Changes	\$41,076.93
Brine Line Contingency Budget Amount		Budget Amount	Change Orders 1-8	Remaining
		\$2,600,000.00	\$1,342,275.20	\$1,257,724.80

Permit fees accrued to date are:

Agency	Description	Amount
City of San Bernardino	Brine Line Encroachment Permit	\$682.50
Riverside County Tax Collection	Permit for Brine Line	\$2,000.00
Union Pacific Railroad (UPRR)	Pipeline Crossing Agreement & Encroachment Permit	\$98,655.00
San Bernardino Flood Control	Brine Line Encroachment Permit	\$9,539.00
San Bernardino Flood Control	408 Permit	\$59,489.00
City of Redlands	Plan Check Fees	\$2,500.00
City of Loma Linda	Plan Check Fee for Brine Line	\$13,000.00
SAWPA	Brine Line Encroachment Permit Deposit	\$20,000.00
County of San Bernardino	CEQA Environmental Filing Fee	\$50.00
Riverside County – Paid by Weka	Permit for Brine Lin – Supplemental Inspection Fee	\$45,460.00
California Department of Fish & Wildlife	1602 Permit	\$5,145.75
State Water Resources Control Board	401 WQC	\$24,197.00
Various Monitoring Required by EIR	Paid Hourly	\$250,000.00
Southern California Edison	Permit	\$6,951.84
Total		\$537,670.09

The project accounting for the Brine Line Project is as follows:

Brine Line	Budget Amount	Actual	Remaining
Design	\$2,082,357.37	\$1,788,016.13	\$294,341.25
Construction Management	\$3,544,265.76	\$2,618,075.52	\$926,190.24
Permit	\$508,240.25	\$278,131.09	\$230,109.16
Construction	\$31,896,226.35	\$27,735,705.30	\$4,160,521.05
Contingency	\$2,600,000.00	\$1,342,275.20	\$1,257,724.80
Total	\$40,631,089.73	\$33,762,203.24	\$6,868,886.50

Wastewater Treatment Plant Expansion/Renovation Project:

- The contractor’s scope of work for the next three weeks can be seen on the three week look ahead;
- This project has experienced several delays related to Covid-19 and power connection. SEC is actively working on the power connection with a multitude of crews. Fibercast, the membrane manufacturer, is experiencing workforce issues and thus delays as a result of COVID-19. The construction team is communicating weekly and adjusting plans as needed. First 6 membranes are expected to ship the first week of May;
- As COVID-19 continues to challenge areas around the world, the construction team is spinning up remote/virtual training now so the plant startup can continue to happen in the event travel worldwide or domestically is limited;
- The contractor as well as consultants and staff are taking every precaution to limit exposure to COVID-19 and a possible job shut down due to infection. These include health checks by the contractor for their staff and subs, limiting meetings to remote only, tracking of staff/contractors in the event of exposure for tracing, and face coverings;
- Contractor has requested 51 inclement weather days to date; and
- The three week look ahead schedule is attached for review (Attachment C).

Approved Change Orders:

CO No.	Description	Reason for Change	Amount
1	MBR System Improvements	Enhance the performance of MBR System	\$149,741.00
2	RO System Electrical Modifications & Storm Drain System Material Change	Design & Material Updates	(\$245.00)
3	New Aeration Basin 1 through 3 Excavation	Conflict with Existing Utilities	\$19,998.00
4	Structural and Mechanical Modifications	Pre-Selected Submittals	\$57,450.64
5	Vactor Truck Dump Station Modifications	Conflict with Utilities	NTE \$15,000.00
6	EDI/Fine Coarse Bubble Diffuser Equipment	Design Change	\$24,298.00
7	Various Changes – MBR/RO Structural, Site civil & Headworks SCADA Design Modifications	Design Change	\$59,167.49
8	Various Changes – Demolition, Piping Realignment, Material Change, and Electrical Actuated Valve Voltage Change	Unforeseen Conditions and Value Engineering	\$6,067.00
9	Various Changes – Solids Handling Bldg. conveyor Capacity Increase, Electrical Yard Vault Cover Changes, Additional Pothole Investigation and Existing Duct Bank Removal, and Yard Utilities	Design Changes, Conflict with Construction, Owner Requested Changes	\$138,531.73
10	MBR Chemical Area Changes & Other Misc. Changes and Inclement Weather Impact Nov-18 to May-19	Owner Requested Changes & Inclement Weather	\$596,031.05
11	Frontier Internet Provider Duct Bank Modifications, 30-inch MBR & 20-inch Plant Effluent Pipeline Elevation and Alignment Modifications, Additional Safety Required	Design Changes & Conflict with Construction	\$81,128.29

	Handrail at Retaining Wall and Generator		
12	RO-Sulfuric Acid Chemical Piping Material Change, Solids Feed Pump TE/TSH Thermocouple Elements, Solids Handling Bldg. Changes	Design Changes, Owner Requested Changes	\$91,417.26
13	Plant Effluent Chemical Area Changes	Owner Requested Changes	\$404,821.33
14	ADA Compliance Men's – Women's Restroom Modifications & SCE Required Additional 4/0 Ground Cable	Design Changes & SCE Requirements	\$12,311.12
WWTP Contingency	Budget Amount	Change Orders 1-14	Remaining
	\$4,000,000.00	\$1,655,717.91	\$2,344,282.09

The project accounting for the Wastewater Treatment Plant Project is as follows:

WWTP	Budget Amount	Paid to Date	Remaining
Design	\$2,709,798.23	\$2,556,828.66	\$152,969.57
Construction Management	\$5,308,585.72	\$3,196,897.65	\$2,111,688.07
Equipment	\$252,906.00	\$253,362.91	(\$456.91)
Permits	\$324,776.76	\$87,429.79	\$237,346.97
Construction	\$53,912,177.00	\$32,254,972.71	\$21,657,204.29
Contingency	\$4,000,000.00	\$907,213.21	\$3,092,786.79
Total	\$66,508,243.71	\$39,256,704.93	\$27,251,538.78

Fiscal Impact:

No additional fiscal impacts beyond the project budget.

Recommended Action:

Receive and file the project updates.

Attachments:

- A. Brine Line Reach 1 – 3 Week Schedule

- B. Brine Line Reach 2 – 3 Week Schedule
- C. WWTP – 3 Week Schedule