



WATER PURIFICATION PLANT EXPANSION



NEWPP Expansion Project MONTHLY STATUS REPORT



September 2021

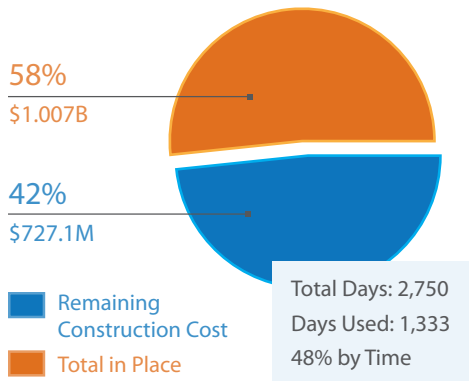
KEY PERFORMANCE INDICATORS (KPI)

Status through September 2021

KPI	Description	Target	Status	Trend (from last update)	Notes
Phase 1 Completion	Phase 1 (80 MGD) Substantial Completion date	March 6, 2023	●	■	Additional days added for weather events.
Phase 2 Completion	Phase 2 (240 MGD) Substantial Completion date	Aug 8, 2025	●	■	Additional days added for weather events.
D-B Financial Performance	D-B Authorized Amount vs. July 2019 Budget	\$1.765B	●	■	Expenditure status based on base GMP and other amounts as defined in Exhibit F of Amended and Restated Agreement.
Safety	Number of reportable events	0	●	■	5.173M hours to date. 15 OSHA recordable incidents. 0 lost time incidents.

- Actual Ahead of Target
- Actual Nearing Target
- Actual Behind Target
- ↑ Status Improved From Last Period
- ↓ Status Declined From Last Period
- Same as Last Briefing

CONSTRUCTION STATUS*



*Earned value based on current Design-Builder amount. Schedule based on duration from EWP 1 through Phase 2 Substantial Completion.

M/WBE STATUS

SUBCONSULTANT PARTICIPATION - HWT*

M/WBE FIRMS – 13.8%

HWT – 86.2%

*As reported on COH OBO B2G contract audit summary.

SUBCONSULTANT PARTICIPATION - PATC*

M/WBE FIRMS – 29%

CAROLLO – 71%

*As reported on COH OBO B2G contract audit summary.

Percentages based on amount paid through Sept. 2021

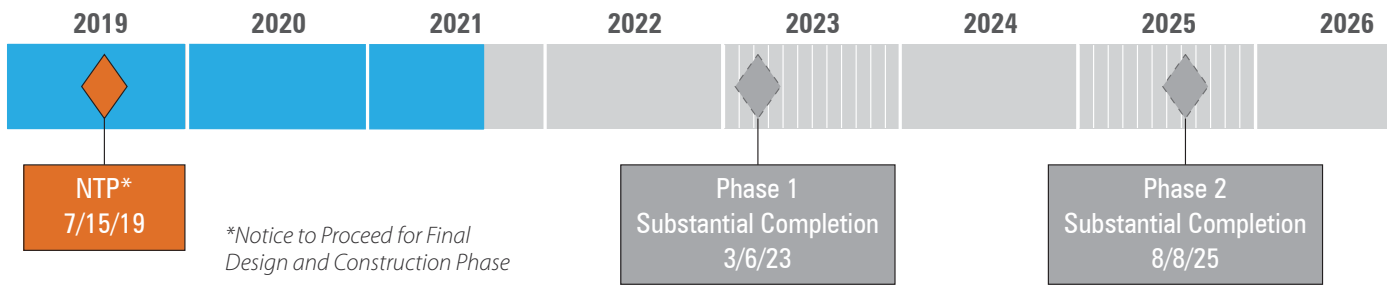
BUDGET SUMMARY

Status through invoice dates listed below.

	Budget ¹	Authorized Amount ²	Invoiced to Date ³	Invoice Date/ % Invoiced ³
Design-Builder (Houston Waterworks Team) ⁴	\$1,765,532,834	\$1,734,694,275	\$1,007,643,952	August 2021/58.1%
Project Advisor/Technical Consultant (Carollo Team) ⁵	\$95,759,349	\$89,520,497	\$50,296,834	August 2021/56.2%
Outside Legal (Hawkins Delafield and Wood)	\$2,131,590	\$1,931,590	\$1,591,995	Jul 2019/82.4%
City/Other ⁶	\$21,022,642	\$21,022,642	\$11,480,011	Dec 2018/54.6%
Management Reserve ⁷	\$88,243,764			
TOTAL⁸	\$1,972,690,179	\$1,847,169,004	\$1,076,316,044	

- Budget as established July 2019.
- Equals budget plus executed change orders/amendments less non-approved allowances less non-utilized contingency as of reporting date.
- Sum total of approved invoices and City recovery costs as of Monthly Report issuance. Percentage = Invoiced/Authorized Amount.
- Original budget equals initial contract amount + amendments 1-8, including allowances and contingency.
- Original budget equals initial contract value + amendments/appropriations 1-6, minus adjustment per Cash Call #1.
- Includes City Recovery, mitigation costs, and other miscellaneous items.
- Owner's contingency used for funding approved change orders and other expenditures within Authorized Amounts column.
- Does not include Houston \$75M reserve for 425 MGD rating work.

SCHEDULE STATUS



*Notice to Proceed for Final Design and Construction Phase

NOTEWORTHY ACCOMPLISHMENTS

- **Central Plant:** Ongoing install underdrain block anchors facility 281 Filter Module 1; ongoing structural work facility 282 Filter Module 2; ongoing building, mechanical and electrical work facility 291 Transfer PS; install of metering pumps and electrical facility 312; ongoing install fire sprinkler and HVAC facilities 311 and 312; ongoing F/R/P slab and conduit install facilities 313 and 314.
- **North Plant:** Plate settler install facility 611 LREQ clarifier 1; tank painting facility 212 pretreatment chemicals; install piers and structural steel chemical pipe bridge1 ongoing CMU block install and mechanical and electrical work all structures.
- **IPS:** Final install metal soffit panels and cable install at Electrical Building 152.
- **Admin & Maintenance Buildings:** Installed doors and hardware, epoxy floor and lighting fixtures.
- **LREQ:** Ongoing 42-inch FTW piping connections facility 601; ongoing structural work facility 602.
- **Yard Piping:** Prep for 84-inch FW tie-ins; install Phase 2 120-inch FW in Corridor 5; install dual 108-inch RW in Corridor 1.
- **South Plant:** Ongoing pre-stress, shotcrete GST 361; conveyor install facility 520 Dewatering Building; ongoing structural steel and CMU install facility 401 HSPS.
- **Substation and Site Electrical:** Ongoing 3rd party testing facility 142.

3-MONTH LOOK AHEAD

- Commence and install Offsite Sanitary Force Main - October through March
- Award and prepare work for initial phase of 108-inch Tunnel and Raw Water Pipeline for north line crossing under Lake Houston Parkway - November through January
- Complete mechanical and electrical construction for IPS and ready for startup - ongoing through January
- Rough set Ozone equipment and commence piping Phase 1 Ozone Generation Facility - Ongoing through March
- North Plant Phase 1 chemical piping work - ongoing through March
- Phase 1 North Plant complete roof steel installation and install roof systems of chemical and electrical buildings - ongoing through January
- Filter underdrain grouting and media installation at Filter 281 for Phase 1 and 2A - October through February
- Continue installation of chemical systems in Phase 1 Central Plant 311 and 312 for Phase 1 and 2A - ongoing through February
- Complete concrete placement for Phase 2B Filter and Transfer Pump Station-ongoing through February
- Commence installation of large diameter piping systems in Phase 2 filter gallery - November through April
- Complete structural work and internal piping at GST 361 - ongoing through December
- Complete structural work on GST 362 and install internal pipe systems - ongoing through November
- Dry in Phase 1 HSPS 401 and install piping and electrical systems - ongoing through March
- Continue truck loading conveyor installation in Solids Dewatering 520 - ongoing through December
- Continue work to connect new 84-inch FW line to existing transmission line - ongoing through December
- Continue work to connect new 120-inch FW line at front of plant - ongoing through January
- Install 66-inch RW bypass and make 108-inch tie-in to EWP; 4 connections - ongoing through January

“We are working closely with the City in anticipation of starting up of the residuals handling system, which will require staff to dewater and dispose of up to 700,000 pounds of dry solids per day. It is incredible to think we are planning for up to 140+ truck trips per day, and it's exciting to help find solutions to the unique challenges of this system.”

- Amber Batson
PATC Residuals Master Plan Lead

GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** October 19, 2021
- **Website:** <https://greaterhoustonwater.com/>



Central Plant - Phase 1



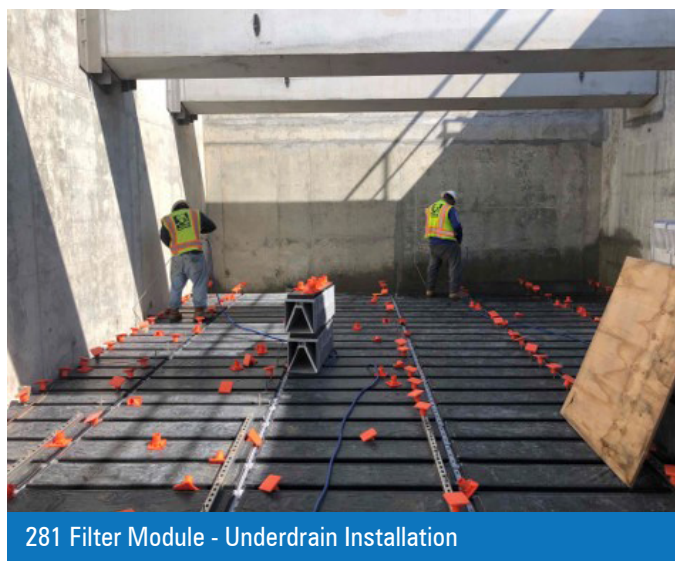
Central Plant - Phase 2



Facility 611 Liquid Residuals Clarifier: Plate Settler Installation



Administration Building Curtain Wall Glazing



281 Filter Module - Underdrain Installation