



WATER PURIFICATION PLANT EXPANSION



NEWPP Expansion Project MONTHLY STATUS REPORT



August 2021

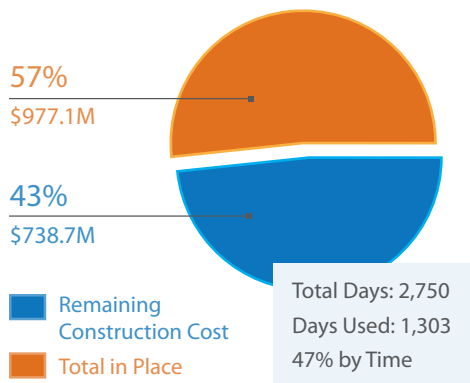
KEY PERFORMANCE INDICATORS (KPI)

Status through August 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	●	▬	4.990M hours to date. 14 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 – 15.1%

HWT – 84.9%

*As reported on COH OBO B2G contract audit summary.

SUBCONSULTANT PARTICIPATION - PATC*

M/WBE FIRMS – 29.5%

CAROLLO – 70.5%

*As reported on COH OBO B2G contract audit summary.

Percentages based on amount paid through August 2021

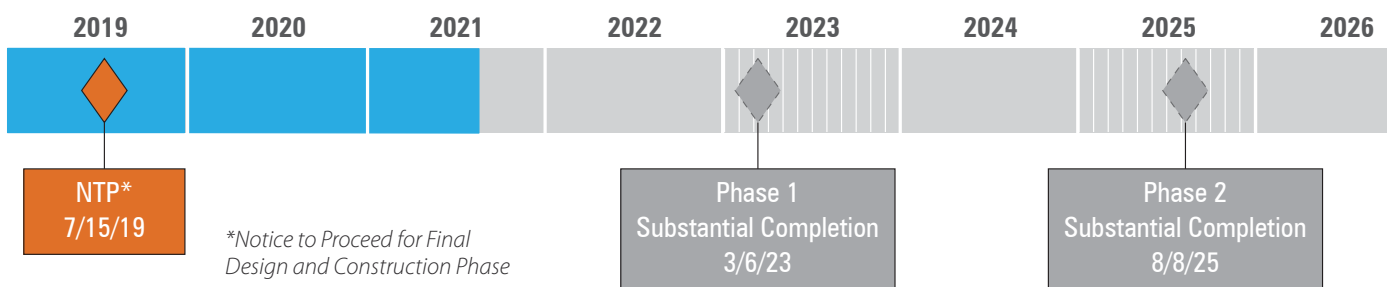
BUDGET SUMMARY

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	\$1,715,836,908	\$977,105,561	June 2021/56.9%
Project Advisor/Technical Consultant (Carollo Team) ⁵	\$95,759,349	\$89,520,497	\$49,408,766	Jul 2021/55.2%
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	\$1,828,311,637	\$1,039,586,332	

- 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



NOTEWORTHY ACCOMPLISHMENTS

- **Central Plant:** Ongoing install underdrain block anchors facility 281 Filter Module 1; ongoing structural work facility 282 Filter Module 2; ongoing electrical work facility 291 Transfer PS; install of metering pumps and electrical facility 311; ongoing application of coatings facility 312d roofing facility 312; ongoing F/R/P slab and conduit install facilities 313 and 314.
- **North Plant:** Initial excavation pretreatment chemical facilities 213 and 215; install flocculators facility 242; ongoing CMU block install and mechanical and electrical work all structures.
- **IPS:** Ongoing mechanical and at Electrical Building 152.
- **Admin & Maintenance Buildings:** Ongoing telecom wiring and interior painting; installed ceiling grid.
- **LREQ:** Final site work and final piping connections facility 601; ongoing structural work facility 602.
- **Yard Piping:** Ongoing installation of various diameters all corridors; install and encase 120-inch FW in Corridor 5.
- **South Plant:** Completed dome pour GST 361; ongoing prestress, shotcrete GST 362; final building interior work facility 520 Dewatering Building; ongoing structural steel install facility 401 HSPS.
- **Substation and Site Electrical:** Install cable and switches facility 401; ongoing 3rd party testing facilities 111, 152, 171.

3-MONTH LOOK AHEAD

- 108-inch Tunnel and Raw Water Pipeline for north line crossing under Lake Houston Parkway – October through December
- Complete mechanical and electrical construction for IPS – ongoing through December
- Install Ozone equipment and piping Phase 1 Ozone Generation Facility – ongoing through January
- North Plant Phase 1 chemical piping work – ongoing through March
- Filter underdrain grouting and media installation at Filter 281 – October through February
- Continue chemical systems in Central Plant 311 and 312 – ongoing through February
- Concrete placement for Phase 2B Filter and Transfer Pump Station – ongoing through January
- Installation of large diameter piping systems in Phase 2 filter gallery – October through February
- Complete wire wrapping of GST 361 and remove internal shoring – ongoing through November
- Complete structural work on GST 362 and install internal pipe systems – October through December
- Precast, roofing, and CMU installation at Phase 1 HSPS 401 – ongoing through November
- Truck loading conveyor installation in Solids Dewatering 520 – September through December
- Connect new 84-inch FW line to existing transmission line – ongoing through October
- Connect new 120-inch FW line at front of plant – ongoing through January
- Continue pulling power wire from MSB 111 to transformer stations at Phase 1 facilities and begin energization of facilities to include Administration building – ongoing through January
- Continue to install facility conduit, wiring, and instrumentation at Filters, TPS, Solids Handling, Administration, and IPS – ongoing through March
- Fiber optic cabling to IPS from plant site and to on site facilities – September through December

“It is exciting that construction has progressed to the point in Phase 1 where we’re preparing to finalize plans and pipe configurations for the movement of water through the plant for next fall’s commencement of the commissioning phase.”

– Roy Bumpass
PATC Project Manager

GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** Q3 2021
- **Website:** <https://greaterhoustonwater.com/>



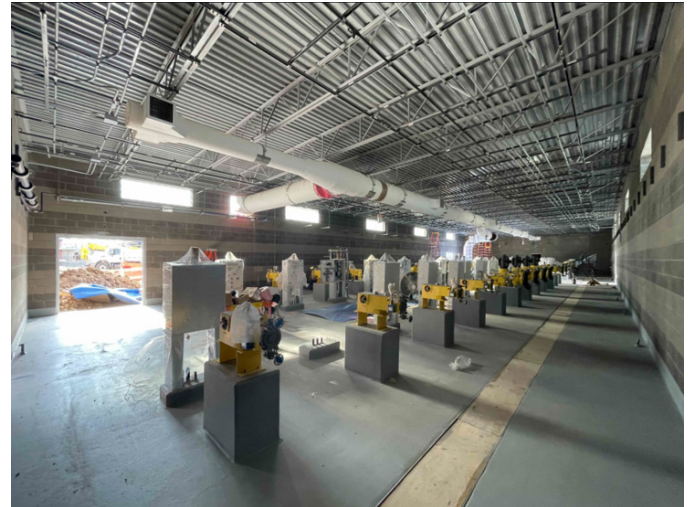
Central Plant - Phase 1



Central Plant - Phase 2



Completed Dome Pour GST 361



311 – Chemical Metering Pumps Mock-up Installation



Structural Steel HSPS 401