

NORTHEAST

WATER PURIFICATION PLANT EXPANSION



NEWPP Expansion Project MONTHLY STATUS REPORT



December 2021

KEY PERFORMANCE INDICATORS (KPI)

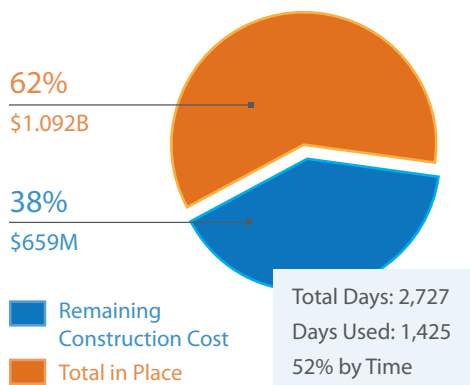
Status through December 2021

KPI	Description	Target*	Status	Trend (from last update)	Notes
Phase 1 Completion	Phase 1 (80 MGD) Substantial Completion date	Feb. 12, 2023	●	■	Phase 1 completion: HWT Progress Schedule forecasts a 3/11/23 completion (-28 days float).
Phase 2 Completion	Phase 2 (240 MGD) Substantial Completion date	July 15, 2025	●	■	Phase 2 completion: HWT Progress Schedule forecasts a 8/12/25 completion (-29 days float).
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	●	■	5.738M hours to date. 16 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

*Target dates modified to contract dates; previous reports based on progress schedule.

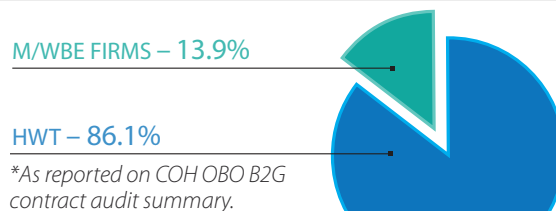
CONSTRUCTION STATUS*



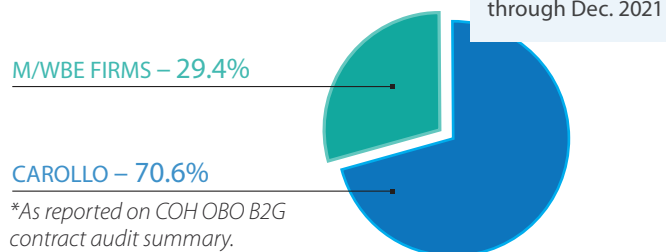
*Earned value based on current Design-Builder amount. Schedule based on duration from EWP 1 through Phase 2 Substantial Completion.

M/WBE STATUS

SUBCONSULTANT PARTICIPATION - HWT*



SUBCONSULTANT PARTICIPATION - PATC*



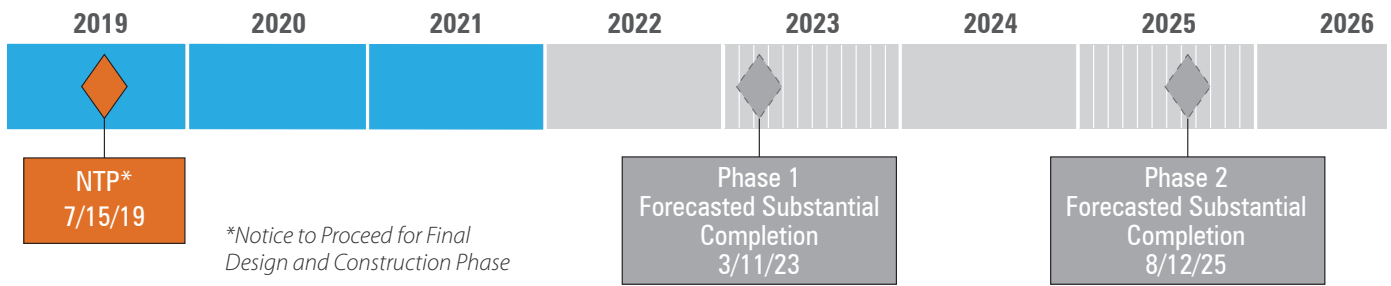
BUDGET SUMMARY

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	\$1,751,579,717	\$1,092,386,113	November 2021/62.4%
Project Advisor/Technical Consultant (Carollo Team) ⁵	\$95,759,349	\$89,520,497	\$52,994,800	November 2021/59.2%
Outside Legal (Hawkins Delafield and Wood)	\$2,131,590	\$1,931,590	\$1,591,995	July 2019/82.4%
City/Other ⁶	\$21,022,642	\$21,022,642	\$16,783,263	June 2021/79.8%
Management Reserve ⁷	\$88,243,764			
TOTAL⁸	\$1,972,690,179	\$1,864,054,446	\$1,163,756,171	

- 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 and grouting of under-drain block and wiring of actuators facility 281 Filter Module 1; ongoing masonry install and top deck placement facility 282 Filter Module 2; install pipe supports and LCPs facility 291TPS; ongoing mechanical work facility 292 TPS; ongoing install of surface coating, metering pumps, piping, and electrical facilities 311 and 312. Ongoing F/R/P concrete work facilities 313, and install SH metal tank and equipment pads facility 314.
- **North Plant:** Ongoing structural, building, mechanical, and electrical work all facilities.
- **IPS:** Finish inside pump room and continue coating repair of exterior wall.
- **Admin & Maintenance Buildings:** Completed install of casework, plumbing fixtures and ceiling tiles.
- **LREQ:** Ongoing install of 24-inch interconnecting pipe facilities 601/602 and ongoing install Road 7.
- **Yard Piping:** Welding and grouting of 120-inch FW piping, prepped 60x84-inch tapping saddle at site entrance for pipe bedding backfill, and poured pipe support pedestals.
- **South Plant:** Prep for interior work GST 361; ongoing interior tank work GST 362; ongoing install doors and windows and process mechanical facility 520 Dewatering Building; ongoing exterior piping install facility 401 HSPS.
- **Substation and Site Electrical:** Completed cable pull for facilities 242/277. Move transformer to facility 401.

3-MONTH LOOK AHEAD

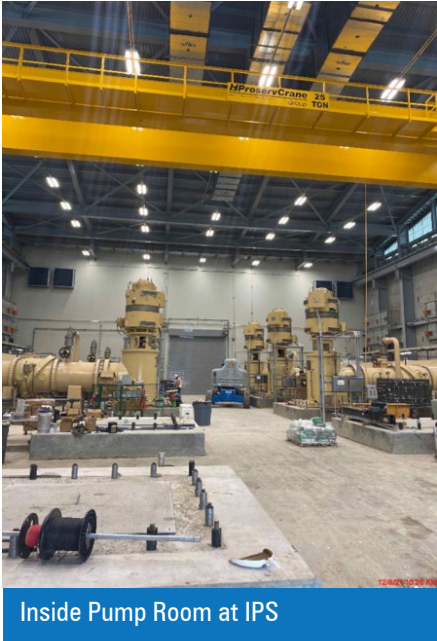
- Fill, disinfect, and utilize GST 1 and 2 for backwashing of phase 1 filter media installation – ongoing through September
- Complete installation of Backwash Pump 1 at HSPS and ready for operation for phase 1 filter media installation – ongoing through March
- Continue truck loading conveyor and solids pumping equipment installation in Solids Dewatering 520 – ongoing through February
- Perform air scour testing and underdrain inspection in preparation of phase 1 filter media installation – ongoing through April
- Begin drafting punchlist and commissioning of Administration and Maintenance Building – February through April
- Complete SCADA testing and commence training of systems at Intake Pump Station – ongoing through April
- Complete LOX area foundations and install LOX equipment for Ozone Generation – ongoing through May
- Complete ozone system piping at Phase 1 ozone process – ongoing through April
- Continue chemical systems installation in north and central plant in preparation – ongoing through June
- Complete revised line stop system installation and 108-inch raw water connection to EWP 4 piping – February through May
- Backfill and prepare for 84-inch FW tie in to existing plant discharge line – ongoing through February
- Complete electric and I&C conduit and wiring in HSPS 401, TPS 291, Filter 281, and Ozone 261 – ongoing through May
- Continue Phase 2 concrete construction at Floc/Sed train 243, Filter 282 and TPS 292 – ongoing through August

“It has been tremendous to be able to provide such a great opportunity to the MWSBE contracting community to contribute to building this plant and in return, they have contract values totaling \$240,000,000.”

– Rob Monk
Procurement Manager, HWT

GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** Q1 2022
- **Website:** <https://greaterhoustonwater.com/>



Inside Pump Room at IPS



502-Gravity Sludge Thickener Complex 2



Installation of Lab Casework at Admin Building



Discharge Piping Encasement HSPS 402



Central Plant - Phase 2