



WATER PURIFICATION PLANT EXPANSION



# NEWPP Expansion Project MONTHLY STATUS REPORT



November 2021

## KEY PERFORMANCE INDICATORS (KPI)

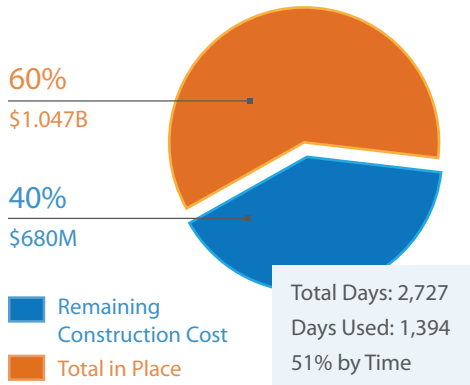
Status through November 2021

KPI	Description	Target*	Status	Trend (from last update)	Notes
Phase 1 Completion	Phase 1 (80 MGD) Substantial Completion date	Feb. 12, 2023	●	■	Additional days added for weather events.
Phase 2 Completion	Phase 2 (240 MGD) Substantial Completion date	July 15, 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	●	■	5.564M 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\*

M/WBE FIRMS – 14.4%

HWT – 85.6%

\*As reported on COH OBO B2G contract audit summary.

### SUBCONSULTANT PARTICIPATION - PATC\*

M/WBE FIRMS – 29.4%

CAROLLO – 70.6%

\*As reported on COH OBO B2G contract audit summary.

Percentages based on amount paid through Nov. 2021

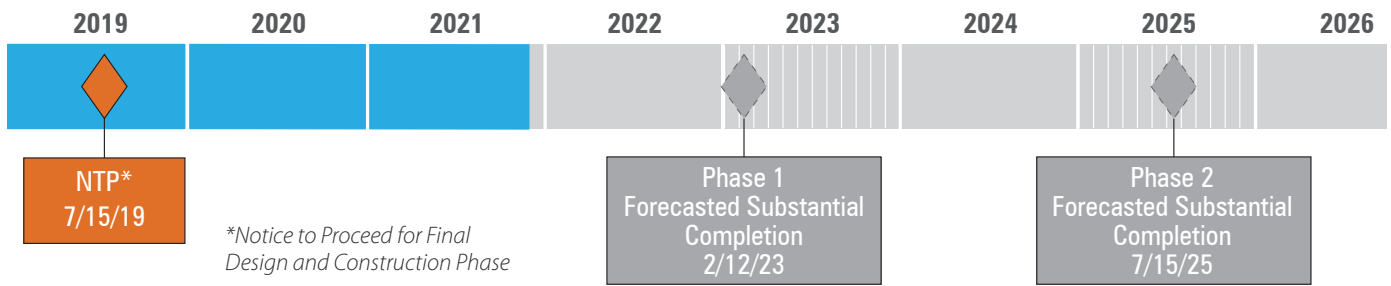
## BUDGET SUMMARY

Status through invoice dates listed below.

	Budget <sup>1</sup>	Authorized Amount <sup>2</sup>	Invoiced to Date <sup>3</sup>	Invoice Date/ % Invoiced <sup>3</sup>
Design-Builder (Houston Waterworks Team) <sup>4</sup>	\$1,765,532,834	\$1,727,336,939	\$1,047,410,119	September 2021/60.6%
Project Advisor/Technical Consultant (Carollo Team) <sup>5</sup>	\$95,759,349	\$89,520,497	\$51,200,692	September 2021/57.2%
Outside Legal (Hawkins Delafield and Wood)	\$2,131,590	\$1,931,590	\$1,591,995	July 2019/82.4%
City/Other <sup>6</sup>	\$21,022,642	\$21,022,642	\$16,783,263	June 2021/79.8%
Management Reserve <sup>7</sup>	\$88,243,764			
<b>TOTAL<sup>8</sup></b>	<b>\$1,972,690,179</b>	<b>\$1,839,811,668</b>	<b>\$1,116,986,069</b>	

- 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 facility 281 Filter Module 1; start of masonry install and top deck placement facility 282 Filter Module 2; ongoing mechanical and electrical work 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 314.
- **North Plant:** Ongoing structural, building, mechanical, and electrical work all facilities.
- **IPS:** Continue site grading and coating repair of exterior wall.
- **Admin & Maintenance Buildings:** Completed install of storefront doors, showers, and server racks.
- **LREQ:** Ongoing finish structural work facility 602 and install of Road 7.
- **Yard Piping:** Ongoing installation of 120-inch FW piping, installed 60x84-inch tapping saddle and valving at site entrance and prepared traffic island area for new 120-inch FW pipe in Corridor 5.
- **South Plant:** Completed prestress, shotcrete GST 361; ongoing interior tank work GST 362; ongoing process mechanical and electrical facility 520 Dewatering Building; ongoing building interior mechanical work facility 401 HSP.
- **Substation and Site Electrical:** Ongoing install north duct bank and 510/520 duct bank. Install of transformer facility 401.

### 3-MONTH LOOK AHEAD

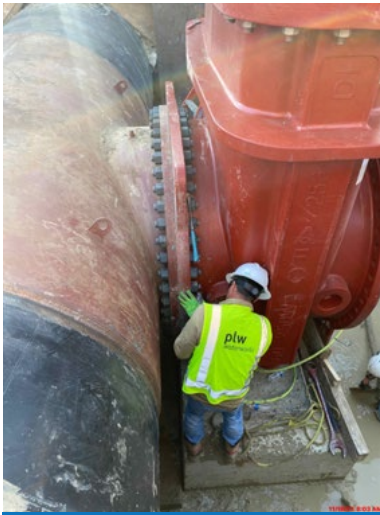
- Award and prepare work for initial phase of 108-inch Tunnel and Raw Water Pipeline for north line crossing under Lake Houston Parkway – December through February
- Install North Plant chemical feed systems and Solids Equipment in basins 611 and 242 – ongoing through February
- Phase 1 North Plant complete roof steel installation and install roof systems of chemical and electrical buildings – ongoing through January
- Continue filter underdrain grouting at Filter 281 for Phase 1 and 2A – ongoing through January
- Continue installation of chemical systems in Phase 1 Central Plant 311 and 312 for Phase 1 and 2A – ongoing through February
- Complete Phase 1 Transfer Pump Station pump installation and connect electrical and control systems – ongoing through March
- Complete concrete construction for Phase 2 Filter and Transfer Pump Station Facility – November through April
- Prepare and install Backwash Supply Pumps and Piping in HSPS 401 and install temporary electrical systems – ongoing through March
- Continue truck loading conveyor installation in Solids Dewatering 520 – ongoing through February
- Complete 84-inch FW line work supporting future final connection to existing plant’s transmission line – ongoing through December
- Continue work installing new 120-inch FW line to NETL’s 120-inch line at front of plant – ongoing through January
- Complete 66-inch RW bypass and install 108-inch tie ins to EWP-4 connections – ongoing through March
- Continue to install facility conduit, wiring, and instrumentation in Phase 1 facilities-Filters, TPS, Solids Handling, Administration, IPS – ongoing through March

“The quality of a constructed project relies on the full cooperation of the individuals involved, a group that includes the Owner and Owner’s Agent, the contractors, inspectors and testing specialists. The commitment to quality on the Houston Water Project is demonstrated by the low percentage of rework, and the attentive awareness by the workforce to the project quality control processes and procedures.”

– Joseph s. Kowalczyk, PE  
HWT Construction Quality Manager

### GOOD NEIGHBOR UPDATE

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



Corridor 5 – Set 60x84" Tapping Saddle and 60" Gate Valve



Facility 311 – CRC Surface Application



281 Filter Module – Finish Install Large Valves



Facility 242 – Flocculation and Sedimentation Leak Test Full Height



Overall Site