

# NORTHEAST

WATER PURIFICATION PLANT EXPANSION



## NEWPP Expansion Project MONTHLY STATUS REPORT



May 2020

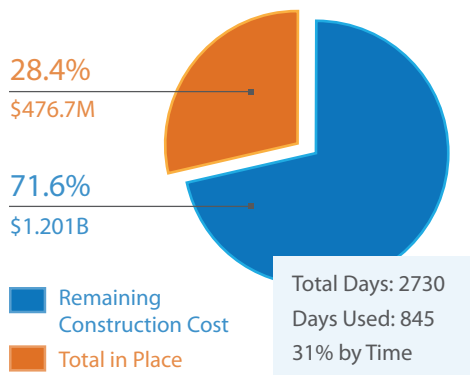
## KEY PERFORMANCE INDICATORS (KPI)

Status through May 2020

| KPI                       | Description                                   | Target        | Status | Trend (from last update) | Notes   |
|---------------------------|---|---------------|--------|--------------------------|---|
| Phase 1 Completion        | Phase 1 (80 MGD) Substantial Completion date  | Jan 25, 2023  | ●      | ▬                        | Phase 1 substantial completion as defined in Exhibit A of Amended and Restated Agreement.                         |
| Phase 2 Completion        | Phase 2 (240 MGD) Substantial Completion date | June 27, 2025 | ●      | ▬                        | Phase 2 substantial completion as defined in Exhibit A of Amended and Restated Agreement.                         |
| 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             | ●      | ▬                        | 2.145M hours to date. 4 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.

## MWBE 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 – 27%

CAROLLO – 73%

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

Percentages based on amount paid through May 2020

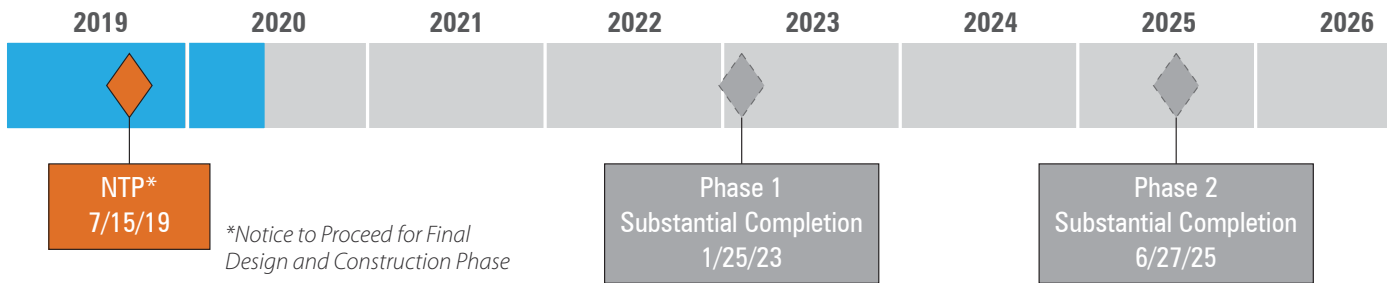
## BUDGET SUMMARY

Status through invoice dates listed below.

|  | Budget <sup>1</sup>    | Authorized Amount <sup>2</sup> | Invoiced to Date <sup>3</sup> | Invoice Date/<br>% Invoiced <sup>3</sup> |
|--|------------------------|--------------------------------|-------------------------------|--|
| Design-Builder (Houston Waterworks Team) <sup>4</sup>            | \$1,765,532,834        | \$1,677,781,421                | \$476,733,770                 | Apr 2020/24.6%                           |
| Project Advisor/Technical Consultant (Carollo Team) <sup>5</sup> | \$95,759,349           | \$89,520,497                   | \$36,357,397                  | Apr 2020/40.6%                           |
| Outside Legal (Hawkins Delafield and Wood)                       | \$2,131,590            | \$1,931,590                    | \$1,591,995                   | Jul 2019/82.4%                           |
| City/Other <sup>6</sup>  | \$21,022,642           | \$21,022,642                   | \$11,480,011                  | Dec 2018/54.6%                           |
| Management Reserve <sup>7</sup>                                  | \$88,243,764           |                                |                               | Dec 2019/25.7%                           |
| <b>TOTAL<sup>8</sup></b>   | <b>\$1,972,690,179</b> | <b>\$1,790,256,150</b>         | <b>\$526,163,172</b>          |  |

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

## SCHEDULE STATUS



## NOTEWORTHY ACCOMPLISHMENTS

- **Central Plant:** Ongoing structural concrete for facility 281 and 282 filter modules 1 and 291 transfer PS 1; initiated structural concrete work for facilities and 311 and 312 post-chemical nos. 1&2.
- **EWP4:** Ongoing final grading for access road.
- **EWP6 North Plant:** Ongoing formwork, rebar placement and structural concrete for work various structures.
- **EWP6 IPS:** FINAL deck pour and ongoing installation of precast beams for bridge.
- **Admin Building:** Ongoing structural work for foundation base, grade beams and footings.
- **LREQ:** Ongoing structural concrete work facilities 601&602 basins and PS.
- **Yard Piping:** Ongoing installation, 108-inch FW and 60-inch BWS pipeline in Corridor 4, 120-inch TW in Corridor 5, and various small diameter Corridors 3 and 4.
- **South Plant:** Completed interlocking slab at facility 401 HSPS; ongoing structural work facility 520.

### 3-MONTH LOOK AHEAD

- Continue install of 84" & 96" FW pipeline in Corridor 4 between HSPS, GST 1 & 2, and connection to TPS – *Ongoing - July*
- Continue install 108", 84" & 120" FW pipelines in Corridor 5 – *Ongoing - July*
- Continue concrete on Gravity Sludge Thickener Complex 2, Facility 501,502, and Service Building – *Ongoing - October*
- Excavate and begin foundation work for TPS 292 – *Ongoing - June*
- Foundation work for Administration & Maintenance Building – *Ongoing - July*
- Install 108" Raw Water Line along north side of plant – *Ongoing - June*
- Construct LREQ 601 tank walls – *Ongoing - August*
- Concrete encasement of pump cans at High Service Pump Station, Building 401 – *Ongoing - July*
- Begin water testing of West Filter Structure- ongoing – *June*
- Install Intake Pump Station Bridge Structure precast Deck Panels – *Ongoing - June*
- Continue duct bank work from substation 102 to new plant – *Ongoing - July*
- Begin substation 102 building construction- ongoing – *September*
- Begin installation of duct bank and chlorine dioxide line work from plant to IPS along raw water corridor ongoing – *September*

“You see all the all the plans, all the negotiations, all the permitting, all the value engineering, all the revisions, all the back and forth and you know that it will take years to finish. But then you go out there, and you see the progress and you see that the pipes really are that big and that you know how many piles were driven into the lake for the FPS, and you stand on the platform. And it's all worth it.”

– Jasmin Zambrano, PE,  
City of Houston

### GOOD NEIGHBOR UPDATE

- **Next Meeting Date:** Q3 2020
- **Website:** <https://greaterhoustonwater.com/>

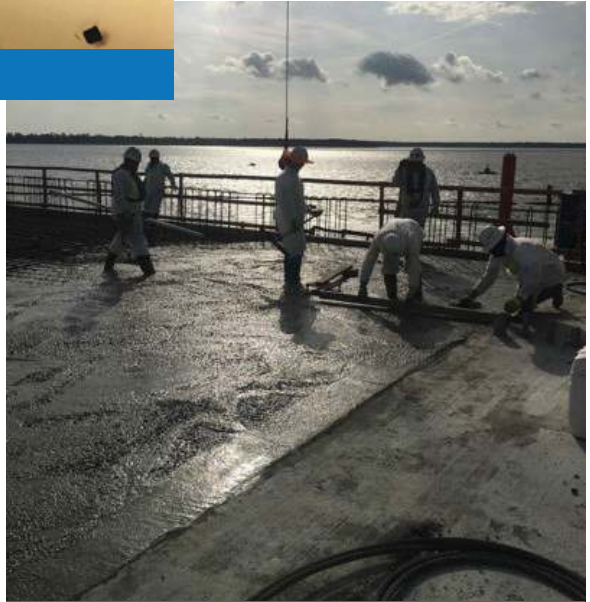




Installing 120" FW HSPS 1



311-Post Chemical Rebar Installation



IPS Final Deck Pour

