



# INTEGRATED PIPELINE PROJECT

## QUARTERLY EXECUTIVE SUMMARY

September 2024



LP1IN Dredging STA 5+45

### IPL PROGRAM MANAGEMENT

Tarrant Regional Water District

804 East Northside Drive

Fort Worth, TX 76102

817.720.4469 p

817.720.4397 f

[iplproject.com](http://iplproject.com)

[@IPL\\_Project](https://twitter.com/IPL_Project)

### TARRANT REGIONAL WATER DISTRICT (TRWD) and the CITY OF DALLAS WATER UTILITIES (DWU)

have partnered to finance, plan, design, construct and operate the Integrated Pipeline (IPL) Project. The IPL Project is an integrated water delivery transmission system connecting Lake Palestine to Lake Benbrook with connections to Cedar Creek and Richland-Chambers Reservoirs integrating TRWD's existing pipelines and creating flexibility in delivery as well as quick response to fluctuating customer water demands. The IPL Project consists of 150 miles of pipeline, three new lake pump stations, and three new booster pump stations delivering a required capacity of 350 million gallons per day (MGD) of raw water to North Central Texas. TRWD and DWU currently serve over 4.1 million residents and the IPL will allow these agencies to continue supporting regional community and economic growth.

# ACCOMPLISHMENTS

through 09.30.2024

**GENERAL IPL PROGRAM OPERATIONAL STATUS**

With the completion of all construction in Phase 1 and Phase 2 of the IPL Program, TRWD has now added redundancy and flexibility, as well as a new independent water supply source from Cedar Creek Reservoir.

As a standalone system, the new JCC1 Pump Station, together with the new IPL pipelines, reservoirs, booster pump station, interconnect facilities and pressure reduction station, has added 210 mgd capacity to TRWD's water supply capability to the Arlington Outlet.

In addition to acting independently, the water from JCC1 can connect to the existing Richland Chambers pipeline at the S5X15 Interconnect facility and both the Richland Chambers and Cedar Creek pipelines at the S2X12 Interconnect facility and the S1X10 Pressure Reduction facility.

The construction projects that are now complete and fully operational are:

- S5X15 Interconnect
- Pipeline Sections 15-1 and 15-2
- JB3R Suction Reservoir
- JB3 Booster Pump Station with Electrical Substation
- Pipeline Section 14
- Midlothian Balancing Reservoir
- Pipeline Sections 12 and 13
- S2X12 Interconnect Facility
- Pipeline Sections 10 and 11
- S1X10 Pressure Reduction Station
- JCC1 Pump Station with Electrical Substation
- Pipeline Sections 17 and 18
- Pipeline Section 17 Trinity River Tunnel

## CURRENT PROJECT UPDATES

### PL19TUN (Cedar Creek; SH 31; Hollywood Lake; Stream A; SH 151/Frankston ISD Tunnels for Pipeline Sections 19-1 & 19-2)

- Open Cut
  - Open Cut Pipe Installation – 28,375ft out of 31,070 complete – 91% complete
  - Continued welding joints: all welds have passed inspection – 91% complete
  - ROW Topsoil Replacement – 28,159LF out of 31,070LF complete – 91% complete
  - Grouting Joints – 28,159LF of 31,070LF – 91% complete
  - Continued receiving OC pipe – 28,251LF of 31,070LF delivered – 91% complete
- Cedar Creek Tunnel
  - Tunnel completed, 5,040ft total – 100% complete
  - Fiber Optic and Cathodic Protection conduits installed – 100% complete
  - BOV riser installed and backfilled
  - Tunnel pipe installation complete, 5,040ft total – 100%
  - Annular Grout Plant commissioned
- Royal Blvd
  - Tunnel Completed, 787ft total – 100% Complete
  - Annular grouting performed – some remedial work required
- Hollywood Lake Tunnel
  - Mined 2,012ft of tunnel – Tunnel now 100% complete
  - Excavation of the retrieval shaft completed
  - Completed installation of the dewatering system at the BOV and Retrieval Shaft
  - TBM was removed from the tunnel
- Stream A
  - Tunnel and carrier pipe and open cut tie incomplete
- SH 155
  - Tunnel Completed, 810ft total – 100% complete
  - Completed installation of tunnel pipe – 100% complete
  - Annular grouting performed – some remedial work required

### LP1 INTAKE (Intake Structure and Channel for Lake Palestine Pump Station)

- Completed Pump Station and first lift of Wingwall piers
- Began tying, forming, and placement of the Pump Station and Wingwall slab and walls
- Continued to haul off rock from Pump Station excavation
- Viking Dredging completed sediment and rock removal of the intake channel from STA 3+50 to 12+47
- Dredged material continues to be rotated and dried out in preparation for being hauled off-site
- Turbidity curtain has been pulled in closer to the shoreline

### PL192A (Section of 84" Pipe between Lake Palestine Pump Station and PL19TUN Project)

- Held Pre-Construction Conference
- Held steel pipe pre-manufacturing meeting
- Steel pipe is currently being manufactured
- Cleared 8,400ft of ROW

- Installed SWPPP – silt fences, check dams, and construction entrances
- Potholing existing utilities
- Held meetings with landowners

### IPL DESIGN PHASE PROGRESS

- IPL Standards – Completed revision of Standard Specifications for Sept. 2024 update
- IPL Standards – Progress on revisions of Standard Details for Oct. 2024 update
- Section 19-2 Pipeline – Consultant continues progress on the design of PL192 Part B project for 2025Q2 advertisement
- Section 19-1 Pipeline – Consultant continues progress on the design of PL191 Part A project for 2024Q4 advertisement
- LP1 Pump Station – Consultant continues progress on design of LP1 Package 2 project for 2025Q2 advertisement
- LP1 High Voltage Substation - Consultant continues progress on the design of substation project for 2025Q2 advertisement
- Owner Furnished Equipment – TRWD and Consultants continue progress on design of equipment packages for large diameter valves, pump control valves, and pumps-motors-and VFDS for Section 19 and LP1 projects

### IPL PROCUREMENT PHASE PROGRESS

- Oncor High Voltage Transmission – TRWD and Oncor negotiated Facility Extension Agreement for August 2024 Board approval

# PROJECT SCHEDULE

PROJECT COMPONENTS	2023				2024				2025				2026			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PL19TUN CONSTRUCTION	[Gantt bar showing completion through Q4 2024]															
LP1 INTAKE CONSTRUCTION	[Gantt bar showing completion through Q4 2025]															
PL192A CONSTRUCTION	[Gantt bar showing completion through Q4 2026]															

# FINANCIALS

through 09.30.2024

Projects	Contractors Prime	Contract Price	Materials Exclusions	M/WBE Available Contract Value	M/WBE Completed Value	Completed %
<b>Construction: Active and Completed</b>		<b>\$1,061,583,457</b>	<b>\$368,361,690</b>	<b>\$693,221,768</b>	<b>\$178,294,469</b>	<b>25.72%</b>
Active-Construction		\$275,381,132	\$65,528,680	\$209,852,452	\$32,516,460	15.49%
Section 19 Long Tunnel Crossings	TRAYLOR SUNDT JOINT VENTURE	\$221,404,672	\$63,735,680	\$157,668,992	\$24,739,901	15.69%
Lake Palestine PS LP1IN Package 1	BAR CONSTRUCTORS INC	\$53,976,460	\$1,793,000	\$52,183,460	\$7,776,559	14.90%
Section 192 Part A Open Cut Pipe Installation	BAR CONSTRUCTORS INC	\$73,894,961	\$28,000,000	\$45,894,961	\$1,982,147	4.32%
Lake Palestine PS HV 138 KV FEA / Transmission	ONCOR ELECTRIC DELIVERY COMPANY LLC	\$21,500,000	\$21,500,000	-	-	0%
Completed-Construction		\$674,037,629	\$246,031,510	\$428,006,119	\$141,307,353	33.02%
Design Active and Completed		\$223,578,390	-	\$223,578,390	\$52,298,079	23.39%
Active Design		\$20,327,277	-	\$20,327,277	\$2,578,256	12.68%
Section 19.01	BROWN & GAY ENGINEERS INC	\$3,943,153	-	\$3,943,153	\$625,048	16%
Section 19.02	HDR ENGINEERING INC	\$5,950,376	-	\$5,950,376	\$1,038,936	17%
Section 19.02	HDR ENGINEERING INC	\$3,411,148	-	\$3,411,148	\$40,332	1%
LP1 IN Package 1 & Package 2	CH2M HILL ENGINEERS INC	\$5,194,000	-	\$5,194,000	\$721,323	14%
High Voltage	BURNS & MCDONNELL ENGINEERING	\$1,063,600	-	\$1,063,600	\$125,200	12%
Section 19 Transportation Management Plan	BURNS & MCDONNELL ENGINEERING	\$690,000	-	\$690,000	\$18,282	3%
Section 19 Long Tunnel	PARSONS WATER & INFRASTRUCTURE	\$75,000	-	\$75,000	\$9,135	12%
JRC1 SITE EVALUATION	CH2M HILL ENGINEERS INC	\$825,000	-	\$825,000	-	0%
JRC1 SURVEY	AECOM TECHNICAL SERVICES INC	\$100,000	-	\$100,000	-	0%
Completed Design		\$202,463,113	-	\$202,463,113	\$49,755,913	24.58%
Active and Completed: Rolling Owner Controlled Insurance Program		\$28,276,855	\$25,440,017	\$2,836,838	\$381,127	13.43%
Active-Rolling Owner Controlled Insurance Program		\$10,166,476	\$9,467,589	\$698,887	-	0.00%
ROCI Ph 3 Admin Broker	WILLIS TOWERS WATSON INSURANCE	\$698,887	-	\$698,887	-	0%
Security Obligations	WILLIS TOWERS WATSON INSURANCE	\$9,467,589	\$9,467,589	-	-	0%
Completed ROCI-Rolling Owner Controlled Insurance Program		\$18,110,379	\$15,972,428	\$2,137,951	\$381,127	17.83%
Active and Completed : Construction and Program Management Support Service		\$114,918,171	-	\$114,918,171	\$37,591,054	32.71%
Active-Construction and Program Management Support Service		\$24,269,755	-	\$24,269,755	\$7,930,532	32.68%
Program Management Support	PLUS SIX ENGINEERING LLC	\$11,933,000	-	\$11,933,000	\$4,313,977	36%
Program Management Support	FREESE & NICHOLS, INC.	\$7,395,236	-	\$7,395,236	\$187,700	3%
Program Management Support	AECOM TECHNICAL SERVICES INC	\$1,839,244	-	\$1,839,244	-	0%
Resident Project Representation	CAS CONSULTING & SERVICES INC	\$3,102,275	-	\$3,102,275	\$3,428,855	110.53%
JRC1 Environmental	FREESE & NICHOLS, INC.	\$171,500	-	\$171,500	-	0%
JRC1 Program Management Support	PLUS SIX ENGINEERING LLC	\$90,000	-	\$90,000	\$18,554	21%
Completed-Construction and Program Management Support Service		\$97,639,413	-	\$97,639,413	\$36,883,770	37.78%
Construction Materials Inspection and Testing-CMIT		\$15,389,465	-	\$15,389,465	\$7,159,421	46.52%
Active-Construction Materials Inspection and Testing-CMIT		\$2,464,098	-	\$2,464,098	\$1,331,618	54.04%
PL19 Long Tunnel Crossings CMIT	ACCURATE INSPECTIONS INC	\$717,000	-	\$717,000	\$370,798	52%
PL19 Long Tunnel Crossings CMIT	STEEL INSPECTORS OF TEXAS INC	\$375,000	-	\$375,000	\$49,095	13%
PL19 Long Tunnel Crossings CMIT	ETTL ENGINEERS AND CONSULTANTS INC	\$800,000	-	\$800,000	\$453,845	57%
PL19 TXDOT CMIT	ACCURATE INSPECTIONS INC	\$196,420	-	\$196,420	\$187,776	96%
PL19 TXDOT CMIT	STEEL INSPECTORS OF TEXAS INC	\$144,760	-	\$144,760	\$39,186	27%
PL19 TXDOT CMIT	ETTL ENGINEERS AND CONSULTANTS INC	\$230,918	-	\$230,918	\$230,918	100%
LP1IN Package 1	ALLIANCE GEOTECHNICAL GROUP	\$879,703	-	\$879,703	\$203,457	23%
PL19-2 PART A OPEN CUT CMIT	ACCURATE INSPECTIONS INC	\$358,248	-	\$358,248	\$9,360	3%
PL19-2 PART A OPEN CUT CMIT	KLEINFELDER CENTRAL INC	\$947,790	-	\$947,790	-	0%
PL19-2 PART A OPEN CUT CMIT	STEEL INSPECTORS OF TEXAS INC	\$355,000	-	\$355,000	-	0%
Completed-Construction Materials Inspection and Testing-CMIT		\$10,384,626	-	\$10,384,626	\$5,614,986	54.07%
Owner Furnished Equipment		\$37,687,293	\$37,687,293	-	\$0	0.00%
Study and Research		\$3,439,003	\$254,473	\$3,184,530	-	0.00%
Legal/Right of Entry/Land Acquisition/Administration		\$170,075,867	\$166,578,526	\$3,497,341	\$1,297,774	37.11%
<b>GRAND TOTAL</b>		<b>\$1,662,337,998</b>	<b>\$598,321,999</b>	<b>\$1,064,016,000</b>	<b>\$284,299,817</b>	<b>26.72%</b>

Note: Excludes costs for pipe, owner-furnished equipment, purchased materials, legal fees, land acquisition and appraisal, power utility, and administrative costs.

# PROJECT COMPONENTS

## PIPELINE SEGMENTS

- **Section 9:** KBR Turn-Out Tee to existing Benbrook Connection Pipeline (10.6 mi. 84" dia. Pipe + 5 mi. 120" Tunnel)
- **Section 10:** KBR Turn-Out Tee to KBR (2.4 mi. 84" dia. Pipe)
- **Section 11:** JB4 to KBR Turn-Out Tee (10 mi. 84" dia. Pipe)
- **Section 12:** JB4 to existing CC and RC Pipelines (2.2 mi. 108" dia. Pipe)
- **Section 13:** MBR2 (Midlothian Balancing Reservoir) to JB4 (11 mi. 108" dia. Pipe)
- **Section 14:** JB3 to MBR2 (Midlothian Balancing Reservoir) (14.9 mi. 108" dia. Pipe)
- **Section 15:** JB2 to JB3 (28.5 mi 108" dia. Pipe)
- **Section 16:** JRC1 (Joint Richland Chambers Lake Pump Station) to JB2 (12.3 mi. 96" dia. Pipe)
- **Section 17:** Cedar Creek Connection to JB2 (11.2 mi. 108" dia. Pipe)
- **Section 18:** JCC1 (Joint Cedar Creek Lake Pump Station) to Cedar Creek Connection (0.2 mi. 108" dia. Pipe)
- **Section 19:** LP1 (Lake Palestine Pump Station) to Cedar Creek Connection (42.3 mi. 84" dia. Pipe)

## PUMP STATIONS:

- **Palestine Pump Station:** 150 mgd with new intake
- **Cedar Creek Pump Station:** 277 mgd with new intake
- **Richland Chambers Pump Station:** 250 mgd Ultimate Design Capacity
- **Booster Pump Stations:** Two @ 347 mgd and one @ 197 mgd (S one 347 mgd station - JB3)

## SUPPORT FACILITIES:

- **Reservoirs:** Three reservoirs (80 – 400 mgd) - two for booster pump stations and one for balancing. Two of the reservoirs are core projects – JB3R and MBR
- **Deep Tunnels:** 5 mi of 10' dia. tunnel @ Crowley (included in length of Section 9)
- **Substations & High Voltage Transmission Lines:** Six substations and 4 mi. of high voltage transmission lines (S two substations)
- **Microwave Communications and SCADA System:** Provides remote operations capability and system monitoring



PL19TUN Completed Hollywood Lake Tunnel



LP1IN North wing wall slab placement

