



INTEGRATED PIPELINE PROJECT QUARTERLY EXECUTIVE SUMMARY

March 2024



LP1IN Pump Station and
Dredge Activities

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

[@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 03.31.2024

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 all the way 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

PL19TX (Tunnels at TxDOT Roadway Crossings for Pipeline Sections 19-1 & 19-2)

- Project has reached Substantial Completion, punchlist work is completed and pending contract closeout.

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 – completed installation of 8,697LF of 84" pipe. The open-cut portion of the project is 76% complete.
 - 84" Butterfly valve delivered to site.
- Cedar Creek Tunnel
 - Tunnel is completed and ready for carrier pipe installation.
 - Working on center shaft Blow-off valve vault installation.
- Royal Blvd
 - Installing carrier pipe in completed tunnel.
- Hollywood Lake Tunnel
 - Completed relocation of TBM and began tunneling.
 - Completed 573 LF of tunnel and tunnel support.
- Stream A
 - Completed installation of 84" carrier pipe and completed grouting of annular space.
- SH 155
 - Tunnel is completed and ready for carrier pipe installation.

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

- Pump Station and Wing Wall excavation – 54,744 CY out of 140,000 CY – 40% complete.
- Pump Can Liners delivered to site.
- Rebar has been tied for Pump Station and Wing Wall piers.
- Installed permanent access road from STA 10+00 to 34+00 – 50% complete.
- Continuing to extend turbidity curtain as needed for dredging activities.
- Completed marine dredge of the access channel and turning basin.
- Continuing to marine dredge the Pump Station intake channel – 14,959 CY out of 55,620 CY – 27% complete.
- Dredged material continues to be hauled to drying bed area where it is rotated to be dried out in preparation of being hauled off site.

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

- Received proposals from four Offerors for open cut construction of 52,675 feet of 84-inch steel water line.
- Evaluated, selected and awarded to BAR Constructors.
- Notice to Proceed anticipated for May.



PL19TUN Open Cut ROW Restoration From Cedar Creek Tunnel to Stream A

PROJECT SCHEDULE

PROJECT COMPONENTS	2022				2023				2024				2025			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PL19TX CONSTRUCTION	Substantially complete															
PL19TUN CONSTRUCTION																
LP1 INTAKE CONSTRUCTION																

FINANCIALS

through 03.31.2024

Projects	Contractors Prime	Contract Price	Materials Exclusions	M/WBE Available Contract Value	M/WBE Completed Value	Completed %
Construction: Active and Completed		\$968,053,837	\$314,606,385	\$653,447,453	\$169,589,958	25.95%
Active-Construction		\$275,396,473	\$65,528,680	\$209,867,793	\$25,800,385	12.29%
Section 19 Long Tunnel Crossings	TRAYLOR SUNDT JOINT VENTURE	\$221,420,013	\$63,735,680	\$157,684,333	\$20,038,552	12.71%
Lake Palestine PS- LP1IN Package 1	BAR CONSTRUCTORS INC	\$53,976,460	\$1,793,000	\$52,183,460	\$5,761,833	11.04%
Completed-Construction		\$675,887,629	\$241,776,205	\$434,111,424	\$141,307,353	32.55%
Design Active and Completed		\$219,723,033	-	\$219,723,033	\$51,930,503	23.63%
Active Design		\$23,532,973	-	\$23,532,973	\$3,173,632	13.49%
Section 19.01	BROWN & GAY ENGINEERS INC	\$3,943,153	-	\$3,943,153	\$596,745	15%
Section 19.02	HDR ENGINEERING INC	\$5,950,376	-	\$5,950,376	\$1,034,995	17%
LP1 IN Package 1 & Package 2	CH2M HILL ENGINEERS INC	\$5,194,000	-	\$5,194,000	\$649,811	13%
Operation Manual	CH2M HILL ENGINEERS INC	\$3,044,922	-	\$3,044,922	\$486,259	16%
Operation Manual Phase 2	CH2M HILL ENGINEERS INC	\$3,434,922	-	\$3,434,922	\$331,473	10%
High Voltage	BURNS & MCDONNELL ENGINEERING	\$1,063,600	-	\$1,063,600	\$10,841	1%
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%
JB3 Record Drawings & JCC1 SCADA	CDM SMITH INC	\$137,000	-	\$137,000	\$36,091	26%
Completed Design		\$196,190,060	-	\$196,190,060	\$48,756,872	24.85%
Active and Completed: Rolling Owner Controlled Insurance Program		\$28,276,855	-	\$28,276,855	\$381,127	1.35%
Active-Rolling Owner Controlled Insurance Program		\$10,166,476	-	\$10,166,476	-	0.00%
ROCIP 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 ROCIP-Rolling Owner Controlled Insurance Program		\$18,110,379	-	\$18,110,379	\$381,127	2.10%
Active and Completed : Construction and Program Management Support Service		\$114,656,671	-	\$114,656,671	\$35,142,065	30.65%
Active-Construction and Program Management Support Service		\$24,269,755	-	\$24,269,755	\$5,500,097	22.66%
Program Management Support	PLUS SIX ENGINEERING LLC	\$11,933,000	-	\$11,933,000	\$2,622,420	22%
Program Management Support	FREESE & NICHOLS, INC.	\$7,395,236	-	\$7,395,236	\$119,988	2%
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	\$2,757,689	88.89%
Completed-Construction and Program Management Support Service		\$97,639,413	-	\$97,639,413	\$36,883,770	37.78%
Construction Materials Inspection and Testing-CMIT		\$13,728,427	-	\$13,728,427	\$6,611,341	48.16%
Active-Construction Materials Inspection and Testing-CMIT		\$2,464,098	-	\$2,464,098	\$981,610	39.84%
PL19 Long Tunnel Crossings CMIT	ACCURATE INSPECTIONS INC	\$717,000	-	\$717,000	\$318,524	44%
PL19 Long Tunnel Crossings CMIT	STEEL INSPECTORS OF TEXAS INC	\$375,000	-	\$375,000	\$28,340	8%
PL19 Long Tunnel Crossings CMIT	ETTL ENGINEERS AND CONSULTANTS INC	\$800,000	-	\$800,000	\$226,002	28%
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	\$181,782	79%
LP1IN Package 1	ALLIANCE GEOTECHNICAL GROUP	\$879,703	-	\$879,703	\$14,745	2%
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	-	\$3,439,003	-	0.00%
Legal/Right of Entry/Land Acquisition/Admin		\$168,488,300	-	\$168,488,300	\$1,297,774	0.77%
GRAND TOTAL		\$1,561,305,916	\$352,293,678	\$1,209,012,238	\$272,194,570	22.51%

Note: Excluding Cost of Pipe, Owner Furnish Equipment, and Purchased Materials

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 Royal Blvd Carrier Pipe Installation



PL19TUN Back of TBM at Hollywood Lake Tunnel



LP1IN Flexbase Road Being Installed

