

INTEGRATED PIPELINE PROJECT QUARTERLY EXECUTIVE SUMMARY

December 2018

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.

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)



*OFE09 Test facility
setup for JCC1 factory
pump test in Japan*

PROGRAM SUPPORT SERVICES

as of 12.31.18

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,062,000	\$88,687,926	\$84,979,831
Program Management	Overall program management services for implementation of the IPL Project. (Extension of TRWD staff)	\$45,000,000	\$35,124,711	\$35,124,711
Conceptual Design / Environmental / Permitting	Operations plan & Prepare 404 permit application, Envision Application Completion	\$13,551,000	\$13,194,525	\$13,248,699
Value Engineering	Expert review of design	\$640,000	\$472,248	\$472,248
Surveying and Mapping	Control, property survey, legal descriptions, and Provide SUE Level A Survey, GIS	\$14,600,000	\$11,854,388	\$10,567,742
Geotechnical	Initial Characterization of entire IPL Project	\$12,037,000	\$12,336,425	\$12,191,092
Corrosion Engineering Services	Engineering Corrosion Control	\$3,891,000	\$5,326,362	\$4,267,718
Land, Easement Acquisition, & Support Studies	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,429,035
SCADA System	Engineering of SCADA system	\$640,000	\$1,508,213	\$622,393
Microwave System	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
DESIGN		\$152,837,000	\$133,869,306	\$120,535,094
Completed		\$101,901,000	\$97,470,103	\$96,614,629
Active		\$24,158,000	\$35,860,787	\$23,920,465
CH2M Hill	Project Operational Information and Operations Manual		\$6,479,844	\$3,854,589
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$3,377,790	\$3,123,474
MWH	Final Conformance of Design of Section 9/10/11	\$506,000	\$812,562	\$555,735
Black & Veatch	Final Design of Section 12/13/14 - 28.1 miles of 84 - inch and 108 - inch pipeline	\$11,292,000	\$9,712,410	\$9,700,648
Parsons	Final Conformance of Design of Sections 17/18/Tunnel	\$832,000	\$579,379	\$681,545
Brown & Gay	Final Design of Section 19-1	\$5,770,000	\$7,003,722	\$1,957,619
HDR	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$3,180,212
Burns & McDonnell Trans. Mgmt.	Development of Transportation Management Plan		\$905,203	\$866,643
Remaining		\$26,778,000	\$538,417	
CONSTRUCTION ADMINISTRATION		\$48,877,000	\$18,550,960	\$13,078,975
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$715,475,511	\$595,627,345
Completed		\$26,677,000	\$20,634,788	\$20,418,083
Active		\$875,818,000	\$694,840,723	\$575,209,261
Pipeline Section 15-1		\$115,112,000	\$93,687,256	\$93,687,256
Garney Construction	Construction of Section 15-1	\$115,112,000	\$93,687,256	\$93,687,256
JB3		\$83,013,000	\$75,596,473	\$69,572,131
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$57,855,320	\$55,154,908
Oncor Electric	Installation of JB3 Substation Transmission Lines	\$1,066,000	\$957,119	\$923,119
Isolux Corsan	Construction of JB3 Substation	\$7,400,000	\$4,864,888	\$4,864,888
R E Monks	Construction of JB3R Restoration	\$0	\$633,263	\$633,263
Pentair Flow Technologies	Construction of JB3 Pumps, Motors, Drives	\$23,074,000	\$11,285,883	\$7,995,953
Pipeline Section 12/13/MBR/IB4 Bypass		\$167,992,000	\$153,916,537	\$153,344,429
Thalle Midlothian	Construction of Sections 12/13/MBR/IB4 Bypass	\$146,310,000	\$143,614,761	\$143,042,653
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,177,546	\$10,177,546
Hilco Electric	Relocation of Electrical Service Lines		\$0	\$0
Hilco Electric	MBR Radio Tower Power		\$33,312	\$33,312
Oncor Electric	Provide Power to IPL 2X12		\$90,918	\$90,918

PROGRAM SUPPORT SERVICES

as of 12.31.18

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Pipeline Section 15-2		\$97,217,000	\$50,743,593	\$50,743,593
BAR Constructors	Construction of Section 15-2	\$97,217,000	\$50,743,593	\$50,743,593
Pipeline Section 14		\$107,113,000	\$47,130,639	\$46,870,639
Garney Construction	Construction of Section 14	\$107,113,000	\$47,080,639	\$46,820,639
Magellan	Captioned Crossing Inspection Section 14	\$0	\$50,000	\$50,000
Pipeline Section 17		\$109,944,000	\$94,280,216	\$64,411,602
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$48,500,000	\$23,450,196
Thalle Midlothian	Construction of Sections 17/18/IB2 Bypass	\$97,692,000	\$45,780,216	\$40,961,406
JCC1		\$106,582,000	\$107,487,394	\$31,691,326
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$19,945,646	\$18,601,463
BAR Constructors	Intake Facility & OFE Installation Package 2	\$63,900,000	\$63,900,000	\$7,127,242
Ebara	Construction of JCC1 Pumps, Motors, Drives	\$17,775,000	\$12,694,890	\$813,367
Lambda Construction	High Voltage		\$5,675,925	\$5,149,254
Oncor Electric	Construction of JCC1 HV Transmission Lines	\$3,343,000	\$5,270,933	\$0
Pipeline Section 10/11		\$73,679,000	\$57,692,322	\$52,271,484
IPL Partners	Construction of Section 10/11	\$72,362,000	\$43,811,972	\$41,476,478
Oncor Electric	Construction of KBR S1X10 HV Transmission Lines		\$17,452	\$17,452
BAR Constructors	Construction of KBR S1X10	\$1,317,000	\$13,862,897	\$10,777,554
Valve Packages		\$15,166,000	\$14,306,294	\$12,616,802
Garney Construction	Valve Package 1 - Section 15-1 Butterfly Valves	\$518,000	\$0	\$0
Rodney Hunt	Valve Package 2 - Section 15-1 Interconnection Facility Valves	\$474,000	\$733,206	\$733,206
Blackhall Engineering	Valve Package 3 - JB3, Section 15-2, MBR Yard Gate Valves	\$5,500,000	\$6,278,388	\$6,211,694
Crispin Valves	Valve Package 4 - Section 12 RC/CC Interconnection, JB4 Bypass, MBR Yard Butterfly Valves	\$3,999,000	\$2,269,140	\$1,970,902
Crispin Valves	Valve Package 5 - JB3 Butterfly Valves	\$1,249,000	\$1,249,222	\$1,039,098
Ross Valves	Valve Package 6 - Section 12 RC/CC Interconnection Multi-Orifice Valves	\$715,000	\$526,340	\$478,838
Crispin Valves	Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves	\$1,391,000	\$1,461,040	\$1,224,936
Blackhall Engineering	Valve Package 11 - JCC1 Gate Valve	\$1,320,000	\$1,788,958	\$958,128
Remaining		\$827,045,000		
CONSTRUCTION MANAGEMENT		\$65,170,000	\$51,854,001	\$39,383,956
Completed		\$15,777,000	\$15,687,599	\$17,281,947
Active		\$17,665,000	\$36,166,402	\$22,102,008
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,296,000	\$13,070,553	\$8,339,196
Completed		\$203,000	\$225,133	\$225,132
Active		\$7,791,000	\$12,845,420	\$8,114,063
Remaining		\$9,302,000		
ROCI		\$2,575,000	\$22,322,780	\$19,631,052
LAND COST		\$107,384,000	\$67,657,713	\$67,657,713
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$8,119,736	\$8,119,736
GRAND TOTAL		\$2,341,919,000	\$1,119,608,488	\$957,352,897
REMAINING BOND FUNDS				\$292,647,103

Note: Total Bonds issued to date \$1,250,000,000

ACCOMPLISHMENTS

through 12.31.18

IPL PROGRAM GENERAL OPERATIONAL STATUS

The IPL system is currently delivering raw water to TRWD customers from the Richland-Chambers Reservoir. The facilities and pipelines in operation are: the S5X15 Interconnect; pipeline Sections 15-1 and 15-2; the JB3 Suction Reservoir; the JB3 Booster Pump Station; pipeline Section 14; the Midlothian Balancing Reservoirs; pipeline Sections 12 and 13; and the S2X12 Interconnect.

PL12, 13, MBR (Pipeline Sections 12 and 13 combined with the Midlothian Balancing Reservoir)

- Project is Substantially Complete and in operation.
- Completed all facility roadways and lighting, and performing maintenance on embankment slope grassing.

JB3 (250mgd Pump Station expandable to 350mgd)

- Completed testing of all pumps and completed flushing of pipelines between JB3 and S2X12 Interconnect Facility.
- Placed pump station in service and began water delivery to customers via IPL system from Richland-Chambers Reservoir to S2X12.
- Completed 108" Gate Valve installation, roadways, perimeter fencing, and general site grading.

PL14 (Pipeline Section 14 that delivers water from JB3 Pump Station to MBR)

- Project is Substantially Complete.
- Finalized County Road repair agreement with Ellis County Commissioners.

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- Preparing laydown yard for casting concrete ring segments for tunnel.

JCC1IN (Intake Structure and Wet Well for JCC1 Pump Station at Cedar Creek)

- Completed dredging of intake channel and removed earthen dam between lake and intake.
- Project is Substantially Complete.

PL10, 11 (Pipeline Sections 10 and 11 from the JB4 Pump Station to the KBR Pressure Reduction Facility)

- Completed removal of all internal testing bulkheads from future JB4 site to S1X10 facility at Kennedale Balancing Reservoirs.
- Continue final ROW restoration.

PL17-18 (Pipeline Sections 17 and 18 from east end of PL15-1 to JCC1 Pump Station)

- Installed 108" Gate Valve and vault at JB2 site.
- Completed installation of all 108" pipe for Sections 17 and 18.

- Installing fences and gates throughout the ROW and spreading topsoil for spring seeding.

KBRPRS / S1X10 (Pressure Reduction Station at Kennedale Balancing Reservoir connecting Pipeline Section 10)

- Completed installation of 66" header pipe.
- Installing yard piping and 108" Butterfly Valves.
- Continue electrical, instrumentation and control equipment and wiring.

JCC1HV (High Voltage Substation for the JCC1 Pump Station at Cedar Creek)

- Completed all work except for energizing substation pending completion of new Oncor feeder construction.

JCC1 (Cedar Creek Lake Pump Station)

- Completed drilled piers, grade beams and pump pedestal supports.
- Began construction for chemical bulk storage tank area and chemical building.

OFE03 (Owner-Furnished 108" Gate Valves)

- All valves have been installed for IPL Stage 1 facilities.

OFE07 (Owner-Furnished pumps, motors and variable frequency drives for JB3)

- All equipment is currently in operation at JB3 Booster Pump Station.

OFE08 (Owner-Furnished 66", 84" and 108" Butterfly Valves)

- All valves have been delivered and installed.

OFE09 (Owner-Furnished pumps, motors and variable frequency drives for JCC1)

- OPT reps were in Viet Nam and completed testing of all remaining pump castings.
- All variable frequency drive units were tested and have been delivered to contractor's secure storage facility.
- IPL and TRWD reps witnessed successful performance testing of Pump 1 in Japan.

OFE11 (Owner-Furnished 108" Gate Valve)

- No additional testing performed.

PROJECT SCHEDULE

PROJECT COMPONENTS	2018				2019				2020			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SECTIONS 12, 13, MBR CONSTRUCTION	SUBSTANTIALLY COMPLETE AND IN OPERATION											
JB3 CONSTRUCTION	[Progress bar]											
SECTION 14 CONSTRUCTION	SUBSTANTIALLY COMPLETE											
SECTION 17 TUNNEL CONSTRUCTION	[Progress bar]											
JCC1 PUMP STATION INTAKE WET WELL CONSTRUCTION	SUBSTANTIALLY COMPLETE											
SECTION 10, 11 CONSTRUCTION	[Progress bar]											
SECTION 17, 18 CONSTRUCTION	[Progress bar]											
KBRPRS/S1X10 (PRESSURE REDUCTION STA.) CONSTRUCTION	[Progress bar]											
JCC1 HIGH VOLTAGE SUBSTATION CONSTRUCTION	[Progress bar]											
JCC1 CONSTRUCTION	[Progress bar]											



JCC1 pump station site



JCC1 pump support platforms

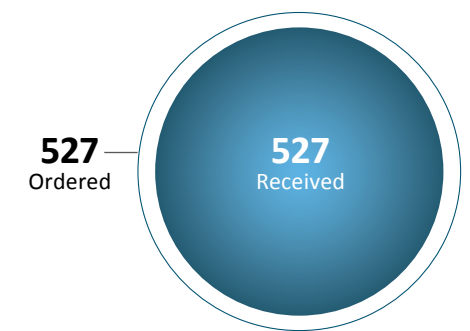


PL1213MBR completed Midlothian balancing reservoirs

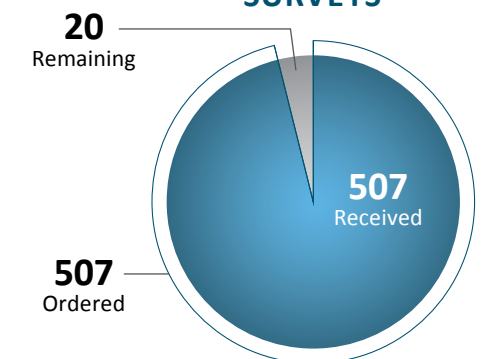
ACTIVITY STATUS

through 12.31.18

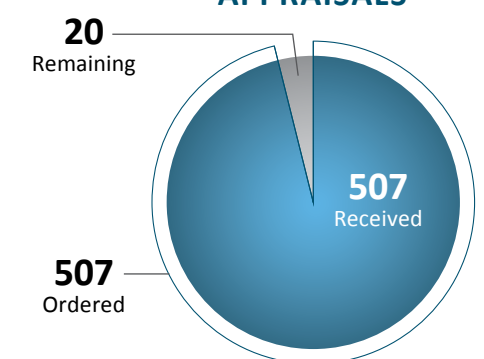
TITLE COMMITMENTS



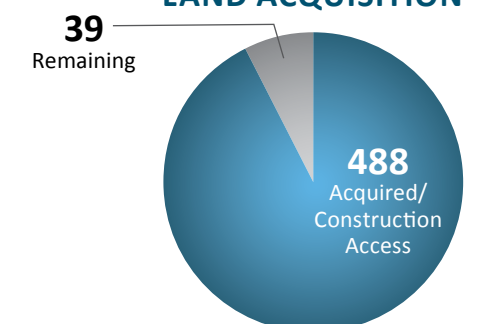
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 527

M/WBE PARTICIPATION

as of 12.31.18

CONTRACT DESIGN AND CONSTRUCTION	M/WBE & HUB SUB-CONTRACTORS	CONTRACT COMMITMENT		M/WBE HUB INVOICED TO DATE		TOTAL PROJECT COMPLETED TO DATE	
		\$	%	\$	% (PER COMMITMENT)	\$	%
PROGRAM WIDE PROFESSIONAL SERVICES		\$20,122,412	23%	\$20,014,606	99%	\$84,979,831	96%
Program Management		\$6,636,687	19%	\$6,636,687	100%	\$35,124,711	100%
Conceptual Design / Environmental / Permitting		\$2,644,586	20%	\$2,827,564	107%	\$13,248,699	100%
Value Engineering		\$23,178	5%	\$23,178	100%	\$472,248	100%
Surveying and Mapping		\$3,939,403	33%	\$3,850,816	98%	\$10,567,742	89%
Geotechnical		\$3,638,078	29%	\$3,545,033	97%	\$12,191,092	99%
Corrosion Engineering Services		\$1,053,764	20%	\$761,434	72%	\$4,267,718	80%
Land, Easement Acquisition, & Support		\$1,294,837	37%	\$1,834,591	142%	\$3,429,035	99%
Studies		\$41,717	1%	\$41,717	100%	\$3,587,584	92%
SCADA System		\$384,444	25%	\$43,932	11%	\$622,393	41%
Microwave System		\$465,719	31%	\$449,653	97%	\$1,468,609	96%
DESIGN		\$35,085,309	26%	\$32,299,677	92%	\$120,535,094	90%
Completed		\$26,558,396	27%	\$26,432,256	100%	\$96,614,629	99%
Active		\$8,526,913	24%	\$5,867,421	69%	\$23,920,465	67%
CH2M Hill (Ops Manual)	NDM	\$1,063,611	16%	\$626,919	59%	\$3,854,589	59%
CH2M Hill (JCC1)	JQ, Gupta, APM, HVJ, XENCO	\$1,005,323	30%	\$1,165,809	116%	\$3,123,474	92%
MWH	Garzabury, Kevin Sloan	\$226,705	28%	\$136,372	60%	\$555,735	68%
Black & Veatch	BDS, CAS, JQ, TME	\$2,425,530	25%	\$2,583,711	107%	\$9,700,648	100%
Parsons	Criado, EPB, HVJ	\$144,845	25%	\$112,357	78%	\$681,545	118%
Brown & Gay	AZB, TME, Lamb-Star, NDM	\$1,750,930	25%	\$481,253	27%	\$1,957,619	28%
HDR	AZB, Daltech, Word Wizards, Gupta	\$1,747,469	25%	\$639,501	37%	\$3,180,212	45%
Burns & McDonnell Trans. Mgmt.	Lamb-Star Engineering	\$162,500	18%	\$121,498	75%	\$866,643	96%
Remaining		\$0	0%	\$0	0	\$0	0%
CONSTRUCTION ADMINISTRATION		\$4,533,900	24%	\$2,938,950	65%	\$13,078,975	71%
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$86,182,965	12%	\$109,184,645	127%	\$595,627,345	83%
Completed		\$4,252,128	22%	\$4,091,050	96%	\$20,418,083	99%
Active		\$81,930,837	19%	\$105,093,595	128%	\$575,209,261	83%
Pipeline Section 15-1		\$9,317,301	29%	\$6,649,736	71%	\$93,687,256	100%
Garney Construction	Danridge, SYB, Ricochet, Glenko, Carrasco, Cowboy, Gorrondona, Custom Fence, LKT, Astro Johnny, Pam, Father & Son, Bowden's Erosion	\$9,317,301	29%	\$6,649,736	71%	\$93,687,256	100%
JB3		\$15,227,298	26%	\$12,193,442	80%	\$69,572,131	92%
MWH Constructors	Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping	\$13,777,378	27%	\$10,743,522	78%	\$55,154,908	95%
Oncor Electric		\$1,449,920	3%	\$1,449,920	100%	\$4,864,888	8%
Isolux Corsan	Dyna Grid	\$0	0%	\$0	0%	\$923,119	96%
RE Monks		\$0	0%	\$0	0%	\$633,263	13%
Pentair Flow Technologies		\$0	0%	\$0	0%	\$7,995,953	71%
Pipeline Section 12/13/MBR/JB4 Bypass		\$22,073,875	24%	\$22,270,125	101%	\$153,344,429	100%
Thalle Midlothian	LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,260,756	27%	\$16,449,587	77%	\$143,042,653	100%
BAR Constructors	Fraire's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel	\$813,119	8%	\$5,820,538	716%	\$10,177,546	100%

M/WBE PARTICIPATION

as of 12.31.18

CONTRACT DESIGN AND CONSTRUCTION	M/WBE & HUB SUB-CONTRACTORS	CONTRACT COMMITMENT		M/WBE HUB INVOICED TO DATE		TOTAL PROJECT COMPLETED TO DATE	
		\$	%	\$	% (PER COMMITMENT)	\$	%
Hilco Electric		\$0	0%	\$0	0%	\$0	0%
Hilco Electric		\$0	0%	\$0	0%	\$33,312	100%
Oncor Electric		\$0	0%	\$0	0%	\$90,918	100%
Pipeline Section 15-2		\$3,947,329	16%	\$20,981,334	532%	\$50,743,593	100%
BAR Constructors	Ricochet, Fraire's, DFW Aggregates, Brock, Tidy Toilets, KDAT, Juan Cantu, Buyer's, RAM, Rangel, LKT, Greenscaping, Environmental Safety	\$3,947,329	16%	\$20,981,334	532%	\$50,743,593	100%
Pipeline Section 14		\$5,925,447	22%	\$6,957,922	117%	\$46,870,639	99%
Garney Construction	AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens	\$5,925,447	29%	\$6,957,922	117%	\$46,820,639	99%
Magellan	Captioned Crossing Inspection Section 14	\$0	0%	\$0	0%	\$50,000	100%
Pipeline Section 17		\$15,151,701	23%	\$3,880,127	26%	\$64,411,602	68%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$9,736,346	23%	\$1,679,025	17%	\$23,450,196	48%
Thalle Midlothian	Fleet Lube, Rambo Controls, AE Trucking, MKI Construction, Stome Water Management, Industry Junction, Ortega Land Clearing	\$5,415,356	24%	\$2,201,102	41%	\$40,961,406	89%
JCC1		\$3,083,701	3%	\$18,537,382	601%	\$31,691,326	29%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence	\$1,011,988	6%	\$17,650,230	1744%	\$18,601,463	93%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets	\$0	0%	\$0	0%	\$7,127,242	11%
Ebara		\$0	0%	\$0	0%	\$813,367	14%
Lambda Construction	High Voltage	\$2,071,713	37%	\$887,152	43%	\$5,149,254	91%
Oncor Electric		\$0	0%	\$0	0%	\$0	0%
Pipeline Section 10/11		\$7,204,185	20%	\$13,623,527	189%	\$52,271,484	91%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$5,760,726	24%	\$2,845,974	49%	\$41,476,478	95%
Oncor Electric		\$0	0%	\$0	0%	\$17,452	100%
BAR Constructors	Industry Junction, VSG Trucking, Ricochet, MMG Disposal, Garland HVAC, CMC Rebar, Buzz Custom Fence, K&A Steel, Rangle Land Surveying	\$1,443,459	11%	\$10,777,554	747%	\$10,777,554	78%
Valve Packages		\$0	0%	\$0	0%	\$12,616,802	88%
CONSTRUCTION MANAGEMENT		\$19,155,809	37%	\$15,764,044	82%	\$39,383,956	76%
Completed		\$5,928,803	38%	\$6,297,951	106%	\$17,281,947	110%
Active		\$13,227,006	37%	\$9,466,093	72%	\$22,102,008	61%
CONSTRUCTION MATERIALS TESTING		\$7,283,832	56%	\$4,661,753	64%	\$8,339,196	64%
Completed		\$219,036	97%	\$219,036	100%	\$225,132	100%
Active		\$7,064,796	55%	\$4,442,717	63%	\$8,114,063	63%
ROCIP		\$900,661	4%	\$342,323	38%	\$19,631,052	88%
TOTAL		\$173,264,887	22%	\$185,205,997	107%	\$881,575,448	84%
LAND COST		\$0	0%	\$61,892	0%	\$67,657,713	303%
MISCELLANEOUS		\$0	0%	\$0	0%	\$8,119,736	12%
GRAND TOTAL		\$173,264,887	22%*	\$185,267,889	107%	\$957,352,897	86%
						M/WBE/HUB Invoiced	\$185,267,889
						Grand Total Invoiced	\$957,352,897
						* Exclusions Invoiced	\$267,856,268
						MWBE %	26.87%

* Denotes participation percentage excluding cost of pipe and owner furnished equipment.

PROJECT COMPONENTS

PIPELINE SEGMENTS	CORE PROJECT	DESCRIPTION
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	CORE PROJECT	DESCRIPTION
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 (◆ one 347 mgd station - JB3)

SUPPORT FACILITIES	CORE PROJECT	DESCRIPTION
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 (◆ two substations)
Microwave Communications and SCADA System	◆	Provides remote operations capability and system monitoring

