



INTEGRATED PIPELINE PROJECT

MONTHLY EXECUTIVE SUMMARY

July 2018



PL1011 Dewatering pipeline after completing pressure testing

IPL PROGRAM MANAGEMENT

Tarrant Regional Water District

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[@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.

PROGRAM SUPPORT SERVICES

as of 07.31.18

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,062,000	\$93,595,112	\$84,864,904
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	\$13,472,389	\$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	\$16,483,710	\$10,543,172
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	\$4,234,004
Land, Easement Acquisition, & Support Studies	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,425,054
SCADA System	Engineering of SCADA system	\$640,000	\$1,508,213	\$569,731
Microwave System	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
DESIGN		\$152,837,000	\$133,181,683	\$119,000,890
Completed		\$101,901,000	\$97,470,103	\$96,423,157
Active		\$24,158,000	\$35,173,164	\$22,577,734
CH2M Hill	Project Operational Information and Operations Manual		\$6,308,293	\$3,197,039
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$2,861,718	\$2,533,664
MWH	Final Conformance of Design of Section 9/10/11	\$506,000	\$812,562	\$535,921
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	\$1,916,068
HDR	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$3,170,308
Burns & McDonnell Trans. Mgmt.	Development of Transportation Management Plan		\$905,203	\$842,540
Remaining		\$26,778,000	\$538,417	
CONSTRUCTION ADMINISTRATION		\$48,877,000	\$18,550,960	\$12,503,355
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$652,473,489	\$565,683,363
Completed		\$26,677,000	\$20,593,942	\$20,377,238
Active		\$811,918,000	\$631,879,547	\$545,306,125
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	\$75,538,597	\$66,841,999
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$57,797,444	\$52,931,769
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	\$7,488,959
Pipeline Section 12/13/MBR/JB4 Bypass		\$167,992,000	\$153,836,245	\$152,153,014
Thalle Midlothian	Construction of Sections 12/13/MBR/JB4 Bypass	\$146,310,000	\$143,534,470	\$141,979,131
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,177,546	\$10,049,653
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 07.31.18

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	\$48,462,225	\$46,647,091
Garney Construction	Construction of Section 14	\$107,113,000	\$48,412,225	\$46,597,091
Magellan	Captioned Crossing Inspection Section 14	\$0	\$50,000	\$50,000
Pipeline Section 17		\$109,944,000	\$94,280,216	\$55,882,305
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$48,500,000	\$20,142,779
Thalle Midlothian	Construction of Sections 17/18/JB2 Bypass	\$97,692,000	\$45,780,216	\$35,739,526
JCC1		\$42,682,000	\$43,377,737	\$19,612,740
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$19,926,339	\$16,224,581
Ebara	Construction of JCC1 Pumps, Motors, Drives	\$17,775,000	\$12,694,890	\$603,745
Lambda Construction	High Voltage		\$5,485,575	\$2,784,414
Oncor Electric	Construction of JCC1 HV Transmission Lines	\$3,343,000	\$5,270,933	\$0
Pipeline Section 10/11		\$73,679,000	\$57,647,384	\$47,879,282
IPL Partners	Construction of Section 10/11	\$72,362,000	\$43,811,972	\$40,910,795
Oncor Electric	Construction of KBR S1X10 HV Transmission Lines		\$17,452	\$17,452
BAR Constructors	Construction of KBR S1X10	\$1,317,000	\$13,817,960	\$6,951,034
Valve Packages		\$15,166,000	\$14,306,294	\$11,858,846
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	\$6,107,838
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	\$352,005
Crispin Valves	Valve Package 8 - Section 10 & 11 Bypass Butterfly Valves	\$1,391,000	\$1,461,040	\$699,518
Blackhall Engineering	Valve Package 11 - JCC1 Gate Valve	\$1,320,000	\$1,788,958	\$956,280
Remaining		\$890,945,000		
CONSTRUCTION MANAGEMENT		\$65,170,000	\$64,762,055	\$36,744,493
Completed		\$15,777,000	\$30,765,854	\$17,077,720
Active		\$17,665,000	\$33,996,201	\$19,666,772
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,296,000	\$12,013,590	\$7,632,789
Completed		\$203,000	\$225,133	\$225,132
Active		\$7,791,000	\$11,788,457	\$7,407,657
Remaining		\$9,302,000		
ROCI		\$2,575,000	\$23,351,087	\$19,502,477
LAND COST		\$107,384,000	\$65,698,890	\$65,698,890
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$5,263,568	\$5,263,568
GRAND TOTAL		\$2,341,919,000	\$1,068,890,435	\$916,894,730
REMAINING BOND FUNDS				\$333,105,270

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

ACCOMPLISHMENTS

through 08.31.18

JB3RR (Pump Suction Reservoir Grading and Grassing Project)

- Contractor continues mowing embankment slopes and grass coverage will be inspected again in early September to determine contract completion.

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

- Project is Substantially Complete.
- Completed county road repairs by finishing Baucum Road
- Worked on punch list for ROW vaults and gates
- Installed camera poles and enclosures on embankment

JB3 (250mgd Pump Station expandable to 350mgd)

- Completed painting of spray water pipe system.
- Continued installation of acoustic wall panels.
- Installed plumbing systems in pump station.
- Passed hydrostatic pressure test for YP1/2/3.
- Completed piping in gate valve vault.
- Commissioned OFE butterfly valve actuators.
- Completed installation of yard sump pump station and valve vault mechanical.
- Continued installation of mechanical piping and instruments in Water Quality Analysis Stations.
- Completed pulling power and signal cables to Water Quality Stations.
- Installed fiber optic to radio tower and verified communication to Fort Worth SCADA.
- Continued installation of perimeter fence.
- Continued general site grading.

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

- Installed standard potential anodes at the two stray current mitigation sites.
- Completed CP test station installations.

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- IPL Partners is scheduled to resume tunnel construction in September.

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

- Continued dredging operations for the main channel in the lake.
- Completed placing secondary concrete for bulkhead and blank panel guides.
- Completed backfilling structure and wingwalls with Class 5 material
- Installed pump opening cover plates
- Continued final concrete repairs and finish work.

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

- Received and installed transformers and Control House.
- Continued installation of wire, switches and other appurtenances.
- Continued installing aluminum buss.
- Installed lighting and power conduit

JCC1 (Cedar Creek Lake Pump Station)

- Issued Notice to Proceed on August 27, 2018.
- Completed removal of all preload material on chemical building site.
- Graded and laid out piers for pump station structure and began tying rebar for drilled piers.

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

- Entire pipeline passed hydrostatic pressure testing.
- Prepared subgrade and placed forms and rebar for Parcel 125 driveway.

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

- Installed 5900' of 108" pipe.
- Installed tunnel pipe through protected Greenbelt area.
- Hauling spoils off ROW and replacing topsoil at ROW in Navarro County
- Placed concrete for 108" Gate Valve vault foundation and began forming walls.

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

- Continued placing duct bank from the Reducing Station to the Communication Building inside the KBR.
- Continued erecting metal building.
- Installing 66" header pipe inside the building.
- Installed bridge crane and back-up generator.

OFE03 (Owner-Furnished 108" Gate Valves)

- Gate Valve 5 being prepared for delivery to PL1718 project.

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

- No further testing performed in August.

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

- Valves were delivered to S1X10 project.

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

- OPT reps were in Viet Nam for additional factory witness testing of pump can and pump bowl coatings.

OFE11 (Owner-Furnished 108" Gate Valve)

- No additional testing in August.



PL1213MBR Making final road repairs to Baucum Road at MBR

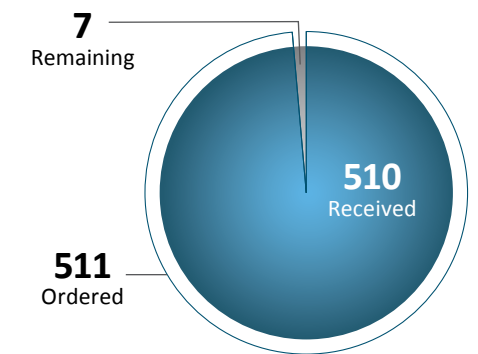


PL1718 Receiving monolithic isolation joint

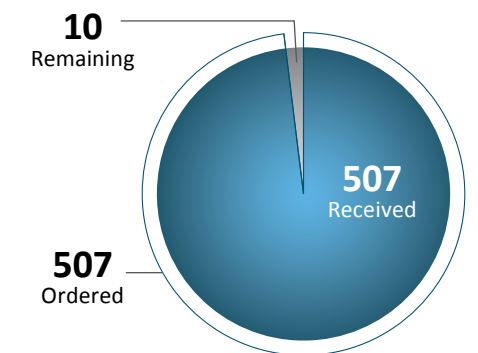
ACTIVITY STATUS

through 08.31.18

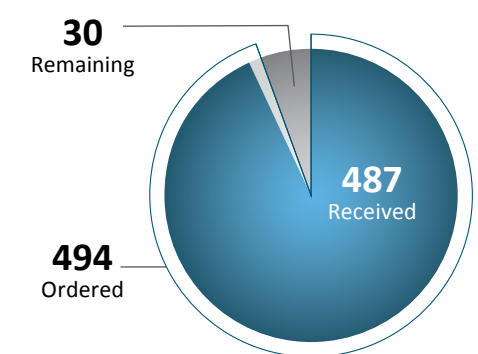
TITLE COMMITMENTS



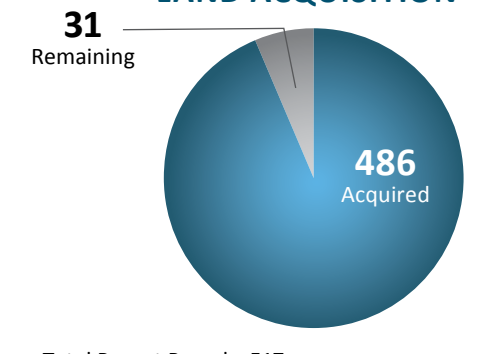
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 517

PROJECT SCHEDULE

PROJECT COMPONENTS	2016				2017				2018				2019				2020			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SECTIONS 12, 13, MBR CONSTRUCTION	[Progress bar]																			
JB3 CONSTRUCTION	[Progress bar]																			
SECTION 14 CONSTRUCTION	[Progress bar]																			
SECTION 17 TUNNEL CONSTRUCTION	[Progress bar]																			
JCC1 PUMP STATION INTAKE WET WELL CONSTRUCTION	[Progress bar]																			
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]																			

M/WBE PARTICIPATION

as of 07.31.18

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		\$21,848,474	23%	\$19,986,866	91%	\$84,864,904	91%
Program Management		\$6,636,687	19%	\$6,636,687	100%	\$35,124,711	100%
Conceptual Design / Environmental / Permitting		\$2,700,278	20%	\$2,827,564	105%	\$13,248,699	98%
Value Engineering		\$23,178	5%	\$23,178	100%	\$472,248	100%
Surveying and Mapping		\$5,609,772	34%	\$3,831,616	68%	\$10,543,172	64%
Geotechnical		\$3,638,078	29%	\$3,545,033	97%	\$12,191,092	99%
Corrosion Engineering Services		\$1,053,764	20%	\$761,434	72%	\$4,234,004	79%
Land, Easement Acquisition, & Support		\$1,294,837	37%	\$1,830,610	141%	\$3,425,054	99%
Studies		\$41,717	1%	\$41,717	100%	\$3,587,584	92%
SCADA System		\$384,444	25%	\$39,372	10%	\$569,731	38%
Microwave System		\$465,719	31%	\$449,653	97%	\$1,468,609	96%
DESIGN		\$34,772,306	26%	\$31,940,989	92%	\$119,000,890	89%
Completed		\$26,558,396	27%	\$26,350,053	99%	\$96,423,157	99%
Active		\$8,213,910	23%	\$5,590,935	68%	\$22,577,734	64%
CH2M Hill (Ops Manual)	NDM	\$1,034,447	16%	\$528,073	51%	\$3,197,039	51%
CH2M Hill (JCC1)	JQ, Gupta, APM, HVJ, XENCO	\$721,484	25%	\$997,825	138%	\$2,533,664	89%
MWH	Garzabury, Kevin Sloan	\$226,705	28%	\$136,372	60%	\$535,921	66%
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%	\$477,623	27%	\$1,916,068	27%
HDR	AZB, Daltech, Word Wizards, Gupta	\$1,747,469	25%	\$639,501	37%	\$3,170,308	45%
Burns & McDonnell Trans. Mgmt.	Lamb-Star Engineering	\$162,500	18%	\$115,472	71%	\$842,540	93%
Remaining		\$0	0%	\$0	0	\$0	0%
CONSTRUCTION ADMINISTRATION		\$4,533,900	24%	\$2,771,852	61%	\$12,503,355	67%
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$86,215,439	13%	\$102,146,158	118%	\$565,683,363	87%
Completed		\$4,217,818	21%	\$4,091,050	97%	\$20,377,238	99%
Active		\$81,997,622	23%	\$98,055,108	120%	\$545,306,125	86%
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		\$15,213,515	26%	\$11,654,613	77%	\$66,841,999	88%
MWH Constructors	Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping	\$13,763,595	27%	\$10,204,692	74%	\$52,931,769	92%
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%	\$7,488,959	66%
Pipeline Section 12/13/MBR/JB4 Bypass		\$22,061,989	24%	\$22,137,658	100%	\$152,153,014	99%
Thalle Midlothian	LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,248,870	27%	\$16,445,013	77%	\$141,979,131	99%
BAR Constructors	Fraine's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel	\$813,119	8%	\$5,692,644	700%	\$10,049,653	99%

M/WBE PARTICIPATION

as of 07.31.18

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, Fraine'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		\$6,093,037	22%	\$6,930,294	114%	\$46,647,091	96%
Garney Construction	AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens	\$6,093,037	28%	\$6,930,294	114%	\$46,597,091	96%
Magellan	Captioned Crossing Inspection Section 14	\$0	0%	\$0	0%	\$50,000	100%
Pipeline Section 17		\$15,151,701	23%	\$3,729,926	25%	\$55,882,305	59%
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%	\$20,142,779	42%
Thalle Midlothian	Fleet Lube, Rambo Controls, AE Trucking, MKI Construction, Stome Water Management, Industry Junction, Ortega Land Clearing	\$5,415,356	24%	\$2,050,901	38%	\$35,739,526	78%
JCC1		\$3,013,244	11%	\$16,196,170	537%	\$19,612,740	45%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence	\$1,011,009	6%	\$15,309,018	1514%	\$16,224,581	81%
Ebara		\$0	0%	\$0	0%	\$603,745	11%
Lambda Construction	High Voltage	\$2,002,235	37%	\$887,152	44%	\$2,784,414	51%
Oncor Electric		\$0	0%	\$0	0%	\$0	0%
Pipeline Section 10/11		\$7,199,505	20%	\$9,775,376	136%	\$47,879,282	83%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$5,760,726	24%	\$2,824,342	49%	\$40,910,795	93%
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	\$1,438,780	11%	\$6,951,034	483%	\$6,951,034	50%
Valve Packages		\$0	0%	\$0	0%	\$11,858,846	83%
CONSTRUCTION MANAGEMENT		\$23,237,427	36%	\$14,941,014	64%	\$36,744,493	57%
Completed		\$10,553,046	34%	\$6,297,951	60%	\$17,077,720	56%
Active		\$12,684,381	37%	\$8,643,063	68%	\$19,666,772	58%
CONSTRUCTION MATERIALS TESTING		\$7,226,826	60%	\$4,188,391	58%	\$7,632,789	64%
Completed		\$219,036	97%	\$219,036	100%	\$225,132	100%
Active		\$7,007,790	59%	\$3,969,355	57%	\$7,407,657	63%
ROCIP		\$1,499,307	6%	\$308,121	21%	\$19,770,594	85%
TOTAL		\$179,333,679	24%	\$176,283,389	98%	\$846,200,389	85%
LAND COST		\$0	0%	\$61,892	0%	\$65,698,890	281%
MISCELLANEOUS		\$0	0%	\$0	0%	\$5,263,568	8%
GRAND TOTAL		\$179,333,679	24%*	\$176,345,281	98%	\$917,162,847	86%

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

M/WBE/HUB Invoiced	\$176,345,281
Grand Total Invoiced	\$917,162,847
* Exclusions Invoiced	\$267,043,223
MWBE %	27.13%

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

