



INTEGRATED PIPELINE PROJECT

MONTHLY EXECUTIVE SUMMARY

April 2018

JCC1IN Overall aerial of project status



IPL PROGRAM MANAGEMENT

Tarrant Regional Water District
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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 04.30.18

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
PROGRAM WIDE PROFESSIONAL SERVICES		\$133,062,000	\$88,965,790	\$84,767,679
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	\$13,232,902
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	\$10,526,607
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	\$4,192,842
Land, Easement Acquisition, & Support Studies	Right of Entry and Land Acquisition Support Services	\$33,993,000	\$3,464,526	\$3,424,068
SCADA System	Engineering of SCADA system	\$640,000	\$1,508,213	\$547,016
Microwave System	Engineering of Communications System	\$5,210,000	\$1,522,785	\$1,468,609
DESIGN		\$152,837,000	\$133,181,683	\$118,305,645
Completed		\$101,901,000	\$97,470,103	\$96,083,192
Active		\$24,158,000	\$35,173,164	\$22,222,452
CH2M Hill	Project Operational Information and Operations Manual		\$6,308,293	\$3,130,082
CH2M Hill	Final Conformance of Design of JCC1	\$728,000	\$2,861,718	\$2,269,229
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	\$1,899,433
HDR	Final Design of Section 19-2	\$5,030,000	\$6,989,876	\$3,163,053
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	\$11,946,696
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$1,729,540,000	\$640,315,116	\$546,840,089
Completed		\$26,677,000	\$20,593,942	\$20,377,238
Active		\$811,918,000	\$619,721,174	\$526,462,851
Pipeline Section 15-1		\$115,112,000	\$94,701,185	\$93,461,134
Garney Construction	Construction of Section 15-1	\$115,112,000	\$94,701,185	\$93,461,134
JB3		\$83,013,000	\$75,426,047	\$64,050,144
MWH Constructors	Construction of JB3 Pump Station	\$51,473,000	\$57,684,894	\$50,139,915
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	\$154,266,324	\$150,876,401
Thalle Midlothian	Construction of Sections 12/13/MBR/JB4 Bypass	\$146,310,000	\$143,526,531	\$140,770,125
BAR Constructors	Construction of Richland-Chambers/Cedar Creek Interconnection Facility	\$21,682,000	\$10,615,564	\$9,982,046
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 04.30.18

CONTRACT DESIGN AND CONSTRUCTION	DESCRIPTION	BUDGET	CONTRACTS ISSUED	TOTAL INVOICED
Pipeline Section 15-2		\$97,217,000	\$53,381,735	\$50,512,028
BAR Constructors	Construction of Section 15-2	\$97,217,000	\$53,381,735	\$50,512,028
Pipeline Section 14		\$107,113,000	\$48,389,855	\$46,292,730
Garney Construction	Construction of Section 14	\$107,113,000	\$48,339,855	\$46,242,730
Magellan	Captioned Crossing Inspection Section 14	\$0	\$50,000	\$50,000
Pipeline Section 17		\$109,944,000	\$78,734,525	\$50,219,095
IPL Partners	Construction of Section 17 Tunnel	\$12,252,000	\$33,087,198	\$18,733,063
Thalle Midlothian	Construction of Sections 17/18/JB2 Bypass	\$97,692,000	\$45,647,327	\$31,486,032
JCC1		\$42,682,000	\$43,394,113	\$14,507,888
BAR Constructors	Construction of JCC1 Intake	\$21,564,000	\$19,942,714	\$12,399,229
Ebara	Construction of JCC1 Pumps, Motors, Drives	\$17,775,000	\$12,694,890	\$603,745
Lambda Construction	High Voltage		\$5,485,575	\$1,504,915
Oncor Electric	Construction of JCC1 HV Transmission Lines	\$3,343,000	\$5,270,933	\$0
Pipeline Section 10/11		\$73,679,000	\$57,121,096	\$45,207,891
IPL Partners	Construction of Section 10/11	\$72,362,000	\$43,416,722	\$39,323,571
Oncor Electric	Construction of KBR S1X10 HV Transmission Lines		\$17,452	\$17,452
BAR Constructors	Construction of KBR S1X10	\$1,317,000	\$13,686,921	\$5,866,868
Valve Packages		\$15,166,000	\$14,306,294	\$11,335,539
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	\$5,801,627
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	\$739,183
Remaining		\$890,945,000		
CONSTRUCTION MANAGEMENT		\$65,170,000	\$49,683,801	\$34,135,882
Completed		\$15,777,000	\$15,687,599	\$16,698,879
Active		\$17,665,000	\$33,996,201	\$17,437,003
Remaining		\$31,728,000		
CONSTRUCTION MATERIALS TESTING		\$17,296,000	\$12,013,590	\$7,063,164
Completed		\$203,000	\$225,133	\$225,132
Active		\$7,791,000	\$11,788,457	\$6,838,032
Remaining		\$9,302,000		
ROCI		\$2,575,000	\$23,351,087	\$19,700,558
LAND COST		\$107,384,000	\$64,244,277	\$64,244,277
PROGRAM LEVEL CONTINGENCY		\$83,178,000		
MISCELLANEOUS		\$2,000,000	\$2,439,109	\$2,439,109
GRAND TOTAL		\$2,341,919,000	\$1,032,745,413	\$889,443,098
REMAINING BOND FUNDS				\$360,556,902

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

ACCOMPLISHMENTS

through 05.31.18

PL15-1 (Pipeline Section 15-1 including the S5X15 Richland-Chambers Pipeline Interconnect Facility)

- Final Payment and Contract Closeout approved at May 2018 BOD meeting

JB3RR (Pump Suction Reservoir Grading and Grassing Project)

- Grass coverage to be inspected again in June to determine contract completion.

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

- Completed power conductor installation at MBR.
- Installed AC at MBR Control Building.
- Installed instrumentation wiring at JB4 and placed PLC in radio building.
- Performing clean up along right of way
- Repaired Singleton Road

JB3 (250mgd Pump Station expandable to 350mgd)

- Continued painting pump station piping.
- Tied in potable water to Pump Station building.
- Completed testing of coolant and spray water piping systems.
- Installed yard sump pump station and valve vault structures.
- Set Water Quality Analysis Stations #2 and #3.
- Installed service road to WQAS #2 & #3.
- Continued installation of Roadway A.
- Continued installation of perimeter fence.
- Installed major power panels in the Data Center.

PL15-2 (Pipeline Section 15-2 that feeds the JB3 Reservoir)

- Certificate of Substantial Completion was issued and approved at May 2018 BOD meeting.
- Final completion and contract closeout are pending 3rd party commissioning of 108" Gate Valve.

S2X12 (Interconnection Facility of IPL Phase 1 to existing Cedar Creek and Richland Chambers Pipelines)

- Certificate of Substantial Completion has been issued and approved.
- Completing landscaping installation and items required by City of Grand Prairie for Certificate of Occupancy.

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

- Continue to ROW cleanup, fence/gate and cable mat installation and continue seeding and sprigging grass.
- Continue installing CP test stations.
- Continued installing permanent access drives.

PL17TUN (Trinity River Tunnel on Pipeline Section 17)

- IPL Partners preparing engineered tunnel plan for OPT review.

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

- Completed installing beam forms, rebar, pipe sleeves, anchor bolts and rebar dowels for the top deck.
- Placed the entire top deck of structure.

- Preparing for piers for the fourth level of slabs on the north and south wingwall.
- Installing geotextile fabric and rock riprap for the channel.
- Deployed additional turbidity curtain in preparation for the channel dredging/excavation.
- Received barges for dredging operations.

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

- Completed all major concrete work for project and installation of all structural steel poles on anchor bolts.
- Completed site pad backfilling.
- Installed insulators, V-switches and operators, and structural steel for grating on transformer pad #1.
- Began installing aluminum buss.

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

- Installing cable mats for creek crossings.
- Installing anode beds and AC mitigation mats.
- Completing installation of permanent driveways.

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

- Installed 6700' of 108" pipe.
- Installing anodes and cathodic protection test stations.
- Hauling spoils off ROW and replacing topsoil.

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

- Completed forming and placing concrete for Venturi Meter Vaults and installed Venturi Flowmeters.
- Installing electrical, instrumentation and control ductbanks.

OFE03 (Owner-Furnished 108" Gate Valves)

- GV#5 being assembled for final, factory testing.

OFE04/05 (Owner-Furnished 54", 60" and 108" Butterfly Valves)

- All valves have been delivered and installed.

OFE06 (Owner-Furnished Multi-Orifice Valves for S2X12)

- Valves delivered, installed and commissioned.

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

- Pentair and Siemens Field Service Technicians have completed installation assistance for now.

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

- BFVs for S1X10 have been delivered.

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

- OPT reps were in Viet Nam for factory witness testing of pump can machining tolerances.

OFE11 (Owner-Furnished 108" Gate Valve)

- Castings have been inspected and approved.



S1X10 Placing concrete for top deck of Venturi Flowmeter Vaults



JCC1HV Installing high-voltage insulators

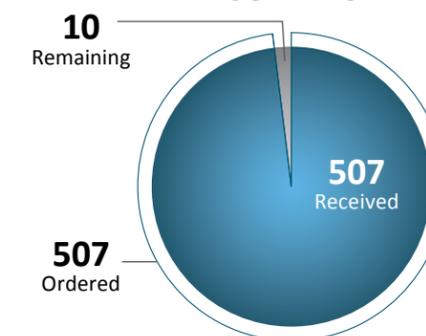
ACTIVITY STATUS

through 05.31.18

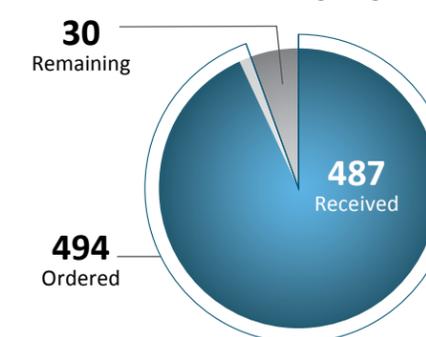
TITLE COMMITMENTS



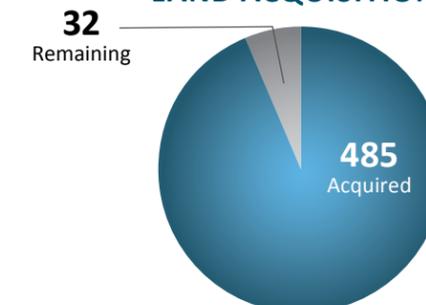
SURVEYS



APPRAISALS



LAND ACQUISITION



Total Parent Parcels: 517

PROJECT SCHEDULE

PROJECT COMPONENTS	2014				2015				2016				2017				2018			
	Q1	Q2	Q3	Q4																
SECTION 15-1 CONSTRUCTION																				
SECTIONS 12, 13, MBR CONSTRUCTION																				
JB3 CONSTRUCTION																				
SECTION 15-2 CONSTRUCTION																				
SECTION 14 CONSTRUCTION																				
S2X12 (INTERCONNECTION FACILITY) CONSTRUCTION																				
SECTION 17 TUNNEL CONSTRUCTION																				
JCC1 PUMP STATION INTAKE, WET WELL CONSTRUCTION																				
SECTION 10, 11 CONSTRUCTION																				
SECTION 17, 18 CONSTRUCTION																				
KBRPRS/S1X10 (PRESSURE REDUCTION STA.) CONSTRUCTION																				

M/WBE PARTICIPATION

as of 04.30.18

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		\$20,178,105	23%	\$19,978,578	99%	\$84,767,679	95%
Program Management		\$6,636,687	19%	\$6,636,687	100%	\$35,124,711	100%
Conceptual Design / Environmental / Permitting		\$2,700,278	20%	\$2,826,430	105%	\$13,232,902	98%
Value Engineering		\$23,178	5%	\$23,178	100%	\$472,248	100%
Surveying and Mapping		\$3,939,403	33%	\$3,831,616	97%	\$10,526,607	89%
Geotechnical		\$3,638,078	29%	\$3,545,033	97%	\$12,191,092	99%
Corrosion Engineering Services		\$1,053,764	20%	\$761,434	72%	\$4,192,842	79%
Land, Easement Acquisition, & Support		\$1,294,837	37%	\$1,829,624	141%	\$3,424,068	99%
Studies		\$41,717	1%	\$41,717	100%	\$3,587,584	92%
SCADA System		\$384,444	25%	\$33,205	9%	\$547,016	36%
Microwave System		\$465,719	31%	\$449,653	97%	\$1,468,609	96%
DESIGN		\$34,772,306	26%	\$31,738,669	91%	\$118,305,645	89%
Completed		\$26,558,396	27%	\$26,319,923	99%	\$96,083,192	99%
Active		\$8,213,910	23%	\$5,418,746	66%	\$22,222,452	63%
CH2M Hill (Ops Manual)	NDM	\$1,034,447	16%	\$516,909	50%	\$3,130,082	50%
CH2M Hill (JCC1)	JQ, Gupta, APM, HVJ, XENCO	\$721,484	25%	\$836,800	116%	\$2,269,229	79%
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%	\$1,899,433	27%
HDR	AZB, Daltech, Word Wizards, Gupta	\$1,747,469	25%	\$639,501	37%	\$3,163,053	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%	\$2,711,618	60%	\$11,946,696	64%
CONSTRUCTION / OWNER FURNISHED EQUIPMENT		\$83,344,791	13%	\$96,229,902	115%	\$546,840,089	85%
Completed		\$4,217,818	21%	\$4,091,050	97%	\$20,377,238	99%
Active		\$79,126,973	23%	\$92,138,852	116%	\$526,462,851	85%
Pipeline Section 15-1		\$9,418,137	28%	\$6,649,736	71%	\$93,461,134	99%
Garney Construction	Danridge, SYB, Ricochet, Glenko, Carrasco, Cowboy, Gorrondona, Custom Fence, LKT, Astro Johnny, Pam, Father & Son, Bowden's Erosion	\$9,418,137	28%	\$6,649,736	71%	\$93,461,134	99%
JB3		\$15,186,713	26%	\$11,539,199	76%	\$64,050,144	85%
MWH Constructors	Statewide, Cowboy, TX Enviro, Champion, Ram Tool, Rent-a-Fence, Soto Steel, A-Star, Ike, Greystone, LKT, Accurate, Green Scaping	\$13,736,793	27%	\$10,089,278	73%	\$50,139,915	87%
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		\$22,095,808	24%	\$22,070,051	100%	\$150,876,401	98%
Thalle Midlothian	LKT, Statewide, Granados, Desert Steel, ETTL, Glenko, A.N.A., Edwards, Buzz, Bradley-Douglas, Pinnacle	\$21,247,695	27%	\$16,445,013	77%	\$140,770,125	98%
BAR Constructors	Fraine's, DFW Aggregates, Ricochet, MMG, LKT, Brock, Garland Heating & Air, Texas Metal, Buzz, Rangel	\$848,113	8%	\$5,625,038	663%	\$9,982,046	94%

M/WBE PARTICIPATION

as of 04.30.18

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		\$4,152,549	15%	\$20,749,770	500%	\$50,512,028	95%
BAR Constructors	Ricochet, Fraine's, DFW Aggregates, Brock, Tidy Toilets, KDAT, Juan Cantu, Buyer's, RAM, Rangel, LKT, Greenscaping, Environmental Safety	\$4,152,549	15%	\$20,749,770	500%	\$50,512,028	95%
Pipeline Section 14		\$6,083,928	22%	\$6,902,667	113%	\$46,292,730	96%
Garney Construction	AEA, Gorrondona, JC Welding, LKT, Statewide, Bowdens	\$6,083,928	28%	\$6,902,667	113%	\$46,242,730	96%
Magellan	Captioned Crossing Inspection Section 14	\$0	0%	\$0	0%	\$50,000	100%
Pipeline Section 17		\$12,041,871	24%	\$3,233,039	27%	\$50,219,095	64%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$6,642,235	24%	\$1,679,025	25%	\$18,733,063	57%
Thalle Midlothian	Fleet Lube, Rambo Controls, AE Trucking, MKI Construction, Stome Water Management, Industry Junction, Ortega Land Clearing	\$5,399,636	25%	\$1,554,014	29%	\$31,486,032	69%
JCC1		\$3,014,075	11%	\$12,348,575	410%	\$14,507,888	33%
BAR Constructors	Industry Junction, K&A Steel, Ricochet Fuel, Ricochet Fuel, Tidy Toilets, Buzz Custom Fence	\$1,011,840	6%	\$11,483,666	1135%	\$12,399,229	62%
Ebara		\$0	0%	\$0	0%	\$603,745	11%
Lambda Construction	High Voltage	\$2,002,235	37%	\$864,909	43%	\$1,504,915	27%
Oncor Electric		\$0	0%	\$0	0%	\$0	0%
Pipeline Section 10/11		\$7,133,891	20%	\$8,645,816	121%	\$45,207,891	79%
IPL Partners	LKT, Industry Junction, Eagle Aggregate, Suncoast Res, ATS Drilling, RECS, ANA, Alliance, Ram, JC Welding, Luis Moreno	\$5,708,755	24%	\$2,778,948	49%	\$39,323,571	91%
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	\$1,425,136	11%	\$5,866,868	412%	\$5,866,868	43%
Valve Packages		\$0	0%	\$0	0%	\$11,335,539	79%
CONSTRUCTION MANAGEMENT		\$18,613,185	37%	\$13,831,923	74%	\$34,135,882	69%
Completed		\$5,928,804	38%	\$6,252,682	105%	\$16,698,879	106%
Active		\$12,684,381	37%	\$7,579,241	60%	\$17,437,003	51%
CONSTRUCTION MATERIALS TESTING		\$7,226,826	60%	\$3,675,400	51%	\$7,063,164	59%
Completed		\$219,036	97%	\$219,036	100%	\$225,132	100%
Active		\$7,007,790	59%	\$3,456,364	49%	\$6,838,032	58%
ROCIP		\$1,499,307	6%	\$308,121	21%	\$19,700,558	84%
TOTAL		\$170,168,419	24%	\$168,474,210	99%	\$822,759,713	85%
LAND COST		\$0	0%	\$61,892	0%	\$64,244,277	275%
MISCELLANEOUS		\$0	0%	\$0	0%	\$2,439,109	4%
GRAND TOTAL		\$170,168,419	24%*	\$168,536,102	99%	\$889,443,098	86%
M/WBE/HUB Invoiced						\$168,536,102	
Grand Total Invoiced						\$889,443,098	
* Exclusions Invoiced						\$265,588,610	
MWBE %						27.02%	

* 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

