



5.39 Summary of Recommended and Alternative Water Management Strategies

5.39.1 Recommended and Alternative Water Management Strategies and Unmet Needs

Recommended Water Management Strategies as applied to the Water User Groups (Section 5.1 – 5.37) and the Wholesale Water Provider (Section 5.38) are summarized in Table 5.39-1 and listed in Table 5.39-2. A summary of the Alternative Water Management Strategies as applied to the Water User Groups (Section 5.1 – 5.37) and the Wholesale Water Provider (Section 5.38) is listed in Table 5.39-3. A full description of each of these strategies is included in Volume II.

A total of 15 Water User Groups are recommended to not have needs met. Table 5.39-4 from the DB17 application includes a summary of unmet needs by Water User Group.

Table 5.39-1. Summary of Recommended Strategies Applied to WUG and/or WWPs

Recommended Strategies	WUG/ WWP using Strategy 1	1st Decade Average Annual Unit Cost (\$/acft)	Supply Developed						Total Project Cost
			2020	2030	2040	2050	2060	2070	
Municipal Conservation	93	\$478	10,845	30,658	46,765	61,587	73,849	81,664	NA
Irrigation Conservation	10	\$230	4,431	7,168	9,739	9,453	9,175	8,940	NA
Industrial Conservation	19	ND	2,399	6,684	12,564	14,853	16,081	17,526	ND
Advanced Conservation	6	\$470	39	81	1,233	4,036	9,700	17,909	NA
Advanced Industrial Conservation	2	ND	5,279	5,279	5,279	5,279	6,690	16,817	NA
Voluntary Redistribution	5	ND	1,205	1,676	1,262	1,547	2,043	2,574	NA
Leave Needs Unmet	15	ND	56,916	59,998	58,116	61,814	72,014	85,347	NA
Purchase Additional Water	27	\$903	12,180	21,818	21,327	21,247	20,971	21,065	NA
Increase WTP Capacity	7	\$1,000	18,983	30,436	32,981	33,946	35,273	36,554	\$122,634,000
Reuse	21	\$635	35,077	35,833	36,785	38,794	41,957	46,662	\$76,898,000
Millers Creek Reservoir Augmentation	7	\$740	2,833	3,013	3,194	3,374	3,554	3,735	\$99,896,000
Throckmorton Reservoir	1	\$601	3,540	3,540	3,540	3,540	3,540	3,540	\$28,041,000
Turkey Peak Reservoir	1	\$643	8,100	8,100	8,100	8,100	8,100	8,100	\$83,363,000
Little River OCR	4	\$800	0	56,150	56,150	56,150	56,150	56,150	\$487,611,000
Blaine Groundwater	3	\$887	876	876	876	876	876	876	\$6,093,000
Brazos River Alluvium Groundwater	2	\$530	4,000	4,000	4,000	4,700	4,700	5,100	\$23,948,000

Table 5.39-1. Summary of Recommended Strategies Applied to WUG and/or WWPs

Recommended Strategies	WUG/ WWP using Strategy 1	1st Decade Average Annual Unit Cost (\$/acft)	Supply Developed						Total Project Cost
			2020	2030	2040	2050	2060	2070	
Carrizo Groundwater	11	\$974	30,384	31,143	31,402	35,504	29,244	21,406	\$231,702,609
Dockum Groundwater	2	\$7,368	450	450	540	540	540	540	\$13,116,000
Edwards Groundwater	8	\$1,061	4,481	4,478	4,475	4,487	4,501	4,513	\$45,324,000
Gulf Coast Groundwater	4	\$1,036	7,359	7,678	7,554	7,453	7,367	7,338	\$41,016,000
Other Groundwater	5	\$1,513	1,256	1,256	1,246	1,246	1,246	1,246	\$15,340,000
Seymour Groundwater	1	\$571	1,571	1,345	1,193	1,116	1,041	1,041	\$9,817,000
Sparta Groundwater	2	\$972	740	790	790	790	825	825	\$6,398,000
Trinity Groundwater	23	\$1,358	12,546	13,023	10,979	10,521	10,445	10,963	\$152,155,000
Woodbine Groundwater	5	\$908	1,700	560	0	0	285	285	\$11,624,000
Yegua-Jackson Groundwater	1	\$656	4,452	5,565	5,565	5,565	5,565	5,565	\$32,957,000
Rehab Existing Wells	2	\$49	0	0	0	173	173	185	\$35,000
Lake Granger ASR	1	\$870	9,050	9,050	9,050	9,050	9,050	9,050	\$99,820,000
McLennan County ASR	1	\$677	8,000	8,000	8,000	8,000	8,000	8,000	\$43,940,000
College Station ASR	1	\$3,069	2,800	2,800	2,800	2,800	2,800	2,800	\$63,850,000
Belton to Stillhouse Pipeline	1	\$154	30,000	30,000	30,000	30,000	30,000	30,000	\$38,069,000
Purchase from Walnut Creek Mine	1	\$500	0	0	0	9,000	9,000	9,000	NA
Lake Aquilla Augmentation	3	\$926	14,700	14,700	14,700	14,700	14,700	14,700	\$79,627,000
Lake Aquilla Reallocation	1	\$865	2,400	2,400	2,400	2,400	2,400	2,400	\$21,887,000
Bosque County Interconnection	6	\$2,277	1,070	1,070	1,070	1,070	1,070	1,070	\$22,372,000
Brushy Creek Reservoir	1	\$481	1,450	1,450	1,450	1,450	1,450	1,450	\$20,836,000
Cedar Ridge Reservoir	1	\$1,031	26,575	26,575	26,575	26,575	26,575	26,575	\$290,868,000
Coryell County OCR	3	\$1,405	0	3,135	3,135	3,135	3,135	3,135	\$42,246,000
Gibbons Creek Reservoir Expansion	1	\$359	2,605	2,605	2,605	2,605	2,605	2,605	\$12,979,000
Groesbeck OCR	1	\$617	1,755	1,755	1,755	1,755	1,755	1,755	\$11,909,000
Reallocation of Supplies	9	\$330	40,574	47,927	54,849	61,366	63,360	61,786	NA
Oak Creek Reservoir Conjunctive Management	1	ND	1,575	1,575	1,575	1,575	1,575	1,575	NA
WCBWDS	5	\$2,492	1,400	1,400	1,400	1,400	1,400	1,400	\$21,148,000



Table 5.39-1. Summary of Recommended Strategies Applied to WUG and/or WWPs

Recommended Strategies	WUG/ WWP using Strategy 1	1st Decade Average Annual Unit Cost (\$/acft)	Supply Developed						Total Project Cost
			2020	2030	2040	2050	2060	2070	
Somervell County Water Supply Project	2	\$4,305	900	900	1,084	1,084	1,084	1,084	\$35,249,000
East Williamson County Water Project	5	\$1,173	8,400	8,400	8,400	8,400	8,400	8,400	\$42,127,000
BCRUA Water Supply Project	4	\$994	67,000	67,000	67,000	67,000	67,000	67,000	\$314,847,000
BRA System Operation	6	\$20	95,223	101,871	109,174	125,682	155,969	166,952	\$23,582,000
Restructure Contracts	1	ND	890	1,028	167	1,306	1,444	1,583	NA

ND - costs and/or supply from strategy not determined

1 – Number of WUG/WWPs that are using the strategy in the final adopted regional water plan

Table 5.39-2. Recommended Projects Associated with Water Management Strategies (DB17 Report)

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
ABILENE	Y	BRUSH CONTROL	BRUSH CONTROL CAPITAL COST	\$7,532,000	2020
ABILENE	Y	CEDAR RIDGE RESERVOIR	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$290,868,000	2020
ABILENE	Y	WTP EXPANSION (23.2 MGD)-ABILENE	WATER TREATMENT PLANT EXPANSION	\$48,257,000	2020
AQUILLA WSD	Y	LAKE AQUILLA AUGMENTATION-A	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$5,714,856	2020
BARTLETT	N	TRINITY AQUIFER DEVELOPMENT- BARTLETT	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$10,428,000	2020
BELL COUNTY WCID #1	Y	BELL COUNTY WCID #1- NORTH REUSE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$12,146,000	2020
BELL COUNTY WCID #1	Y	BELL COUNTY WCID #1- SOUTH REUSE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW WATER TREATMENT PLANT	\$6,529,000	2020
BELLMEAD	N	REUSE- BELLMEAD/ LACY-LAKE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$2,884,000	2020
BELL-MILAM FALLS WSC	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$2,808,467	2020
BISTONE MWSD	Y	CARRIZO (BRAZOS) DEVELOPMENT-BISTONE MWSD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$22,689,000	2020
BRAZOS RIVER AUTHORITY	Y	BELTON TO STILLHOUSE PIPELINE-BRA	CONVEYANCE/TRANSMISSION PIPELINE; DIVERSION AND CONTROL STRUCTURE; NEW SURFACE WATER INTAKE	\$38,069,000	2020
BRAZOS RIVER AUTHORITY	Y	BRA SYSTEM OPERATION-MAIN STEM	NEW AGREEMENT	\$23,581,674	2020
BRAZOS RIVER AUTHORITY	Y	BRA SYSTEM OPERATIONS-LITTLE RIVER	NEW WATER RIGHT/PERMIT	\$23,581,674	2050
BRAZOS RIVER AUTHORITY	Y	CHLORIDE CONTROL PROJECT-BRA	INJECTION WELL; NEW WATER TREATMENT PLANT	\$172,652,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE AQUILLA REALLOCATION- BRA	RAISE CONSERVATION POOL	\$21,887,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER ASR	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$99,820,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER AUGMENTATION-PHASE 1-BRA	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION	\$85,170,000	2020
BRAZOS RIVER AUTHORITY	Y	LAKE GRANGER AUGMENTATION-PHASE 2-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$637,057,000	2020
BRAZOS RIVER AUTHORITY	Y	LITTLE RIVER OCR-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	\$487,611,000	2030
BRECKENRIDGE	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	\$8,308,142	2020
BRUSHY CREEK MUD	N	EDWARDS AQUIFER DEVELOPMENT-BRUSHY CREEK MUD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$182,000	2050
BRYAN	Y	BRYAN ASR (CARRIZO-WILCOX)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	\$57,328,000	2020
BRYAN	Y	CARRIZO-WILCOX DEVELOPMENT-BRYAN	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; PUMP STATION; WATER TREATMENT PLANT EXPANSION	\$24,569,609	2020
BRYAN	Y	REUSE- BRYAN (OPTION 1)	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$8,989,000	2020
BRYAN	Y	REUSE- MIRAMONT	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$2,544,000	2020
CEDAR PARK	Y	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	\$69,665,771	2020



Table 5.39-2. Recommended Projects Associated with Water Management Strategies (DB17 Report)

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
CENTRAL TEXAS WSC	Y	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$11,233,867	2020
CHILDRESS CREEK WSC	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$5,074,000	2020
CHILDRESS CREEK WSC	N	TRINITY WELL REHAB-CHILDRESS CREEK WSC	DEEPEN WELL	\$15,000	2050
CHISHOLM TRAIL SUD	N	CHISHOLM TRAIL SUD WTP EXPANSION	NEW WATER TREATMENT PLANT	\$31,675,000	2020
CLEBURNE	Y	LAKE AQUILLA AUGMENTATION-A	CONVEYANCE/TRANSMISSION PIPELINE; INJECTION WELL; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$73,912,144	2020
CLEBURNE	Y	REUSE- CLEBURNE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$14,059,000	2020
CLIFTON	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$5,135,000	2020
COLLEGE STATION	N	COLLEGE STATION ASR (REUSE)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	\$63,850,000	2020
COLLEGE STATION	N	REUSE-COLLEGE STATION	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$1,705,000	2020
COLLEGE STATION	N	YEGUA-JACKSON DEVELOPMENT-COLLEGE STATION	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$32,957,000	2020
COUNTY-OTHER, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$3,736,000	2040
COUNTY-OTHER, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$2,033,000	2020
COUNTY-OTHER, CORYELL	N	TRINITY AQUIFER DEVELOPMENT- CORYELL COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$4,428,000	2050
COUNTY-OTHER, ERATH	N	TRINITY AQUIFER DEVELOPMENT- ERATH COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$2,195,000	2060
COUNTY-OTHER, FALLS	N	UPGRADE WTP FOR ARSENIC-FALLS COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	\$220,000	2020
COUNTY-OTHER, HILL	N	UPGRADE WTP FOR ARSENIC-HILL COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	\$1,042,000	2020
COUNTY-OTHER, HOOD	N	TRINITY AQUIFER DEVELOPMENT- HOOD COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$6,164,000	2020
COUNTY-OTHER, LIMESTONE	N	UPGRADE WTP FOR ARSENIC-LIMESTONE COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	\$1,115,000	2020
COUNTY-OTHER, MCLENNAN	N	UPGRADE WTP FOR ARSENIC-MCLENNAN COUNTY-OTHER	WATER TREATMENT PLANT EXPANSION	\$3,811,000	2020
COUNTY-OTHER, ROBERTSON	N	CARRIZO AQUIFER DEVELOPMENT-ROBERTSON COUNTY-OTHER	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$825,000	2070
COUNTY-OTHER, SHACKELFORD	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	\$3,776,429	2020
COUNTY-OTHER, SOMERVELL	N	SOMERVELL COUNTY WATER SUPPLY PROJECTS PHASES 1-4, 7A, 9-17	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$35,249,000	2020
COUNTY-OTHER, WILLIAMSON	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$11,534,774	2020
CRESSON	N	TRINITY AQUIFER DEVELOPMENT- CRESSON	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$771,000	2040
CROSS COUNTRY WSC	N	INTERCONNECT FROM WACO TO CROSS COUNTRY WSC	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	\$2,579,000	2050
FLORENCE	N	EDWARDS AQUIFER DEVELOPMENT-FLORENCE	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$218,000	2060
FLORENCE	N	TRINITY AQUIFER DEVELOPMENT (BELL CO.)- FLORENCE	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$3,778,000	2020
GEORGETOWN	N	EXPAND WTP (21 MGD)- GEORGETOWN	WATER TREATMENT PLANT EXPANSION	\$44,534,000	2030
GODLEY	N	WOODBINE AQUIFER DEVELOPMENT-GODLEY	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$375,000	2060

Table 5.39-2. Recommended Projects Associated with Water Management Strategies (DB17 Report)

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
GRANGER	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$1,003,024	2020
GROESBECK	N	GROESBECK OCR- GROESBECK	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	\$11,909,000	2020
HARKER HEIGHTS	N	INTERCONNECT FROM KILLEEN TO HARKER HEIGHTS	CONVEYANCE/TRANSMISSION PIPELINE; STORAGE TANK; PUMP STATION	\$2,580,000	2070
HEART OF TEXAS WATER SUPPLIERS LLC	Y	CARRIZO AQUIFER DEVELOPMENT-HUTTO (HEART OF TEXAS-LEE CO.)	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT; PUMP STATION	\$127,086,000	2020
HEWITT	N	REUSE- BULLHIDE CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$4,657,000	2020
IRRIGATION, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$13,384,000	2020
IRRIGATION, BELL	N	TRINITY AQUIFER DEVELOPMENT-BELL COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$2,541,000	2070
IRRIGATION, BOSQUE	N	TRINITY AQUIFER DEVELOPMENT-BOSQUE COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$11,048,000	2020
IRRIGATION, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$11,015,000	2050
IRRIGATION, EASTLAND	N	TRINITY AQUIFER DEVELOPMENT- EASTLAND COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$24,210,000	2020
IRRIGATION, HAMILTON	N	TRINITY AQUIFER DEVELOPMENT- HAMILTON COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$1,173,000	2020
IRRIGATION, KNOX	N	BLAINE AQUIFER DEVELOPMENT- KNOX COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$2,436,000	2020
IRRIGATION, KNOX	N	SEYMOUR AQUIFER DEVELOPMENT- KNOX COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$9,817,000	2020
IRRIGATION, LAMPASAS	N	TRINITY AQUIFER DEVELOPMENT- LAMPASAS COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$3,049,000	2020
IRRIGATION, MCLENNAN	N	BRAZOS RIVER ALLUVIUM DEVELOPMENT- MCLENNAN COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$16,763,000	2020
IRRIGATION, ROBERTSON	N	CARRIZO AQUIFER DEVELOPMENT-ROBERTSON COUNTY IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$128,018,000	2020
IRRIGATION, STEPHENS	N	OTHER AQUIFER DEVELOPMENT-STEPHENS IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$640,000	2020
IRRIGATION, WILLIAMSON	N	EDWARDS AQUIFER DEVELOPMENT- WILLIAMSON IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$1,220,000	2020
IRRIGATION, YOUNG	N	OTHER AQUIFER DEVELOPMENT-YOUNG IRRIGATION	MULTIPLE WELLS/WELL FIELD	\$1,172,000	2020
JARRELL	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$501,512	2020
JAYTON	N	NEW WTP(0.4 MGD)-JAYTON	WATER TREATMENT PLANT EXPANSION	\$3,537,000	2020
JONAH WATER SUD	N	EAST WILLIAMSON COUNTY WATER PROJECT	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; STORAGE TANK	\$15,045,357	2020
LACY-LAKEVIEW	N	REUSE- BELLMEAD/ LACY-LAKE	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$2,884,000	2020
LEANDER	N	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	\$142,186,421	2020
LIBERTY HILL	N	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	\$3,554,660	2020
LORENA	N	REUSE- BULLHIDE CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION	\$2,884,000	2020
MANUFACTURING, BRAZOS	N	GULF COAST DEVELOPMENT-BRAZOS COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$8,932,000	2020
MANUFACTURING, BURLESON	N	SPARTA AQUIFER DEVELOPMENT-BURLESON COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$932,000	2020
MANUFACTURING, FISHER	N	DOCKUM AQUIFER DEVELOPMENT- FISHER COUNTY MANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$10,081,000	2020
MANUFACTURING, WASHINGTON	N	GULF COAST DEVELOPMENT-WASHINGTON MINDINGMANUFACTURING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$3,380,000	2020



Table 5.39-2. Recommended Projects Associated with Water Management Strategies (DB17 Report)

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
MARLIN	N	BRUSHY CREEK RESERVOIR- MARLIN	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK	\$20,836,000	2020
MART	N	INTERCONNECT FROM WACO TO MART	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	\$5,617,000	2020
MART	N	INTERCONNECT FROM WACO TO NORTH BOSQUE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	\$2,203,000	2030
MERIDIAN	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$3,220,000	2020
MINING, BELL	N	EDWARDS AQUIFER DEVELOPMENT-BELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$13,846,000	2020
MINING, BELL	N	TRINITY AQUIFER DEVELOPMENT-BELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$14,731,000	2020
MINING, BURLESON	N	SPARTA AQUIFER DEVELOPMENT-BURLESON COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$5,466,000	2020
MINING, CALLAHAN	N	TRINITY AQUIFER DEVELOPMENT CALLAHAN MINING	MULTIPLE WELLS/WELL FIELD	\$1,695,000	2020
MINING, COMANCHE	N	TRINITY AQUIFER DEVELOPMENT- COMANCHE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$4,475,000	2020
MINING, CORYELL	N	TRINITY AQUIFER DEVELOPMENT- CORYELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$20,220,000	2020
MINING, EASTLAND	N	TRINITY AQUIFER DEVELOPMENT- EASTLAND COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$8,202,000	2020
MINING, FISHER	N	DOCKUM AQUIFER DEVELOPMENT- FISHER COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$3,035,000	2020
MINING, GRIMES	N	CARRIZO AQUIFER DEVELOPMENT-GRIMES COUNTY MINING	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$5,805,000	2020
MINING, HAMILTON	N	TRINITY AQUIFER DEVELOPMENT HAMILTON MINING	MULTIPLE WELLS/WELL FIELD	\$2,734,000	2020
MINING, HILL	N	WOODBINE AQUIFER DEVELOPMENT- HILL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$4,684,000	2020
MINING, HOOD	N	TRINITY AQUIFER DEVELOPMENT- HOOD COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$6,197,000	2020
MINING, JOHNSON	N	WOODBINE AQUIFER DEVELOPMENT- JOHNSON COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$4,684,000	2020
MINING, KNOX	N	BLAINE AQUIFER DEVELOPMENT- KNOX COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$223,000	2020
MINING, LAMPASAS	N	TRINITY AQUIFER DEVELOPMENT- LAMPASAS COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$2,219,000	2020
MINING, LIMESTONE	N	CARRIZO (BRAZOS) DEVELOPMENT-LIMESTONE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$31,546,000	2020
MINING, LIMESTONE	N	CARRIZO (TRINITY) DEVELOPMENT-LIMESTONE COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$5,871,000	2020
MINING, MCLENNAN	N	BRAZOS RIVER ALLUVIUM DEVELOPMENT- MCLENNAN COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$7,185,000	2020
MINING, NOLAN	N	EDWARDS AQUIFER DEVELOPMENT-NOLAN COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$2,448,000	2020
MINING, SHACKELFORD	N	OTHER AQUIFER DEVELOPMENT-SHACKELFORD MINING	MULTIPLE WELLS/WELL FIELD	\$8,095,000	2020
MINING, SOMERVELL	N	TRINITY AQUIFER DEVELOPMENT- SOMERVELL COUNTY MINING	MULTIPLE WELLS/WELL FIELD	\$3,502,000	2020
MINING, STONEWALL	N	BLAINE AQUIFER DEVELOPMENT- STONEWALL MINING	MULTIPLE WELLS/WELL FIELD	\$3,434,000	2020
MINING, THROCKMORTON	N	OTHER AQUIFER DEVELOPMENT- THROCKMORTON MINING	MULTIPLE WELLS/WELL FIELD	\$2,344,000	2020
MINING, WASHINGTON	N	GULF COAST DEVELOPMENT-WASHINGTON MINING	MULTIPLE WELLS/WELL FIELD	\$6,245,000	2020
MINING, YOUNG	N	OTHER AQUIFER DEVELOPMENT-YOUNG MINING	MULTIPLE WELLS/WELL FIELD	\$3,089,000	2020
MULTI-COUNTY WSC	N	CORYELL COUNTY OCR-BRA	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION	\$42,246,000	2030
NORTH BOSQUE WSC	N	INTERCONNECT FROM WACO TO NORTH BOSQUE	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK; NEW SURFACE WATER INTAKE	\$2,203,000	2030

Table 5.39-2. Recommended Projects Associated with Water Management Strategies (DB17 Report)

Sponsor Name	Is Sponsor a WWP?	Project Name	Project Description	Capital Cost	Online Decade
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY	Y	MILLERS CREEK AUGMENTATION-NCTWA	RESERVOIR CONSTRUCTION	\$74,399,000	2020
PALO PINTO COUNTY MWD #1	Y	TURKEY PEAK RESERVOIR	RESERVOIR CONSTRUCTION	\$71,988,000	2020
PARKER WSC	N	WOODBINE AQUIFER DEVELOPMENT- PARKER WSC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$1,128,000	2060
RIO VISTA	N	WOODBINE AQUIFER DEVELOPMENT-RIO VISTA	CONVEYANCE/TRANSMISSION PIPELINE; MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$753,000	2020
ROBINSON	N	EXPAND WTP(4MGD)-ROBINSON	WATER TREATMENT PLANT EXPANSION	\$13,153,000	2020
ROUND ROCK	Y	BRUSHY CREEK RUA WATER SUPPLY	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION; NEW WATER TREATMENT PLANT	\$102,994,808	2020
STEAM ELECTRIC POWER, GRIMES	N	CARRIZO AQUIFER DEVELOPMENT-GRIMES COUNTY STEAM-ELECTRIC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$8,182,000	2020
STEAM ELECTRIC POWER, GRIMES	N	GIBBONS CREEK RESERVOIR-GRIMES SE	RAISE CONSERVATION POOL	\$12,979,000	2020
STEAM ELECTRIC POWER, GRIMES	N	GULF COAST DEVELOPMENT-GRIMES COUNTY STEAM-ELECTRIC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$22,459,000	2020
STEAM ELECTRIC POWER, SOMERVELL	N	BRA SYSTEM OPS INFRASTRUCTURE-SOMERVELL SE	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; PUMP STATION	\$128,162,000	2020
STEPHENS REGIONAL SUD	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	\$6,042,286	2020
SWEETWATER	Y	INTERCONNECT FROM ABILENE TO SWEETWATER	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; STORAGE TANK	\$13,036,000	2020
THROCKMORTON	N	THROCKMORTON RESERVOIR-THROCKMORTON	RESERVOIR CONSTRUCTION	\$28,041,000	2020
THROCKMORTON	N	WEST CENTRAL BRAZOS WATER DISTRIBUTION SYSTEM	CONVEYANCE/TRANSMISSION PIPELINE; NEW SURFACE WATER INTAKE; NEW WATER TREATMENT PLANT	\$2,915,403	2020
TOLAR	N	TRINITY WELL REHAB- TOLAR	DEEPEEN WELL	\$20,000	2050
TRI-COUNTY SUD	N	CARRIZO-WILCOX DEVELOPMENT-TRI-COUNTY SUD	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$1,445,000	2020
UPPER LEON MWD	Y	TRINITY AQUIFER DEVELOPMENT- UPPER LEON (FROM PECAN ORCHARD)	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$5,347,000	2020
VALLEY MILLS	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$4,730,000	2020
WACO	Y	MCLENNAN COUNTY ASR (WACO)	MULTIPLE WELLS/WELL FIELD	\$43,940,000	2020
WACO	Y	REUSE- FLAT CREEK	CONVEYANCE/TRANSMISSION PIPELINE; NEW WATER TREATMENT PLANT; PUMP STATION; STORAGE TANK	\$9,371,000	2020
WALNUT SPRINGS	N	BOSQUE COUNTY-RWSP	CONVEYANCE/TRANSMISSION PIPELINE; PUMP STATION; RESERVOIR CONSTRUCTION; STORAGE TANK; WATER TREATMENT PLANT EXPANSION	\$4,213,000	2020
WELLBORN SUD	N	EXPAND WTP (4MGD)- WELLBORN SUD	WATER TREATMENT PLANT EXPANSION	\$13,153,000	2040
WEST BRAZOS WSC	N	CARRIZO AQUIFER DEVELOPMENT-WEST BRAZOS WSC	MULTIPLE WELLS/WELL FIELD; NEW WATER TREATMENT PLANT	\$2,752,000	2020
Region G Total Recommended Capital Cost				\$3,926,014,878	

*Projects with a capital cost of zero are excluded from the report list.



Table 5.39-3. Alternative Water Management Strategies Summary (DB17 Report)

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	Water Management Strategy Supplies						Unit Cost 2020	Unit Cost 2070
				2020	2030	2040	2050	2060	2070		
ABILENE	G	POSSUM KINGDOM TO ABILENE	G BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	14,800	14,800	14,800	14,800	14,800	14,800	\$2586	\$1063
ASPERMONT	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	33	47	62	76	90	105	\$0	\$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 1	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	17,017	17,017	17,017	17,017	17,017	17,017	\$0	\$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 1	G TRINITY AQUIFER WILLIAMSON COUNTY	8,509	8,509	8,509	8,509	8,509	8,509	\$584	\$305
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 2	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	18,107	18,107	18,107	18,107	18,107	18,107	\$0	\$0
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE GRANGER AUGMENTATION-PH 2	G CARRIZO-WILCOX AQUIFER MILAM COUNTY	28,118	28,118	28,118	28,118	28,118	28,118	\$1611	\$458
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	SEDIMENT REDUCTION PROGRAM (LAKE LIMESTONE WATERSHED)	G BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	177	355	532	710	888	N/A	\$167
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF LAKE GRANGER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,940	1,940	1,940	1,940	1,940	1,940	\$1552	\$314
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF LAKE WHITNEY	G BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	20,842	20,842	20,842	20,842	20,842	20,842	\$361	\$4
BRAZOS RIVER AUTHORITY - UNASSIGNED WATER VOLUMES	G	STORAGE REALLOCATION OF STILLHOUSE HOLLOW RESERVOIR	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,643	2,643	2,643	2,643	2,643	2,643	\$1177	\$19
BRYAN	G	CARRIZO AQUIFER DEVELOPMENT	G CARRIZO-WILCOX AQUIFER ROBERTSON COUNTY	3,826	3,826	4,171	5,565	11,826	19,478	\$1006	\$323
COLLEGE STATION	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	6,000	6,000	6,000	6,000	6,000	6,000	\$1065	\$547
COLLEGE STATION - UNASSIGNED WATER VOLUMES	G	DPR- COLLEGE STATION	G DIRECT REUSE	2,800	2,800	2,800	2,800	2,800	2,800	\$3484	\$1805
COUNTY-OTHER, CORYELL	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	100	200	525	N/A	\$1309
COUNTY-OTHER, HASKELL	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	53	76	100	123	146	170	\$0	\$0
COUNTY-OTHER, HOOD	G	ACTON MUD REDUCTION TO HOOD COUNTY-OTHER	G BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	968	344	77	121	22	0	\$977	N/A
GLEN ROSE	G	SOMERVELL COUNTY WSP	G BRAZOS RUN-OF-RIVER	0	0	0	0	50	50	N/A	\$1059

Table 5.39-3. Alternative Water Management Strategies Summary (DB17 Report)

WUG Entity Name	WMS Sponsor Region	WMS Name	Source Name	Water Management Strategy Supplies						Unit Cost 2020	Unit Cost 2070
				2020	2030	2040	2050	2060	2070		
HALLSBURG	G	REUSE- WMARSS WACO EAST	G DIRECT REUSE	31	31	31	31	31	31	\$869	\$191
HASKELL	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	176	254	332	410	488	566	\$0	\$0
HUTTO	G	LITTLE RIVER OCR	G LITTLE RIVER OFF-CHANNEL LAKE/RESERVOIR	0	378	2,181	4,001	6,215	8,499	N/A	\$350
IRRIGATION, BELL	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,250	\$66	\$66
IRRIGATION, MCLENNAN	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	1,200	1,200	1,200	1,200	1,200	1,200	\$66	\$66
IRRIGATION, MCLENNAN	G	TRINITY AQUIFER DEVELOPMENT	G TRINITY AQUIFER MCLENNAN COUNTY	1,000	1,000	1,000	1,000	1,000	1,000	\$1047	\$86
IRRIGATION, PALO PINTO	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	2,494	2,392	2,299	2,260	2,222	2,188	\$66	\$66
JOHNSON COUNTY SUD	G	TRINITY - JOHNSON COUNTY ASR	G TRINITY AQUIFER ASR JOHNSON COUNTY	2,000	2,000	2,000	2,000	2,000	2,000	\$1131	\$640
KNOX CITY	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	72	104	136	167	199	231	\$0	\$0
MANUFACTURING, BELL	G	REUSE-BCWCID #1 NORTH	G DIRECT REUSE	1,000	1,000	1,000	1,360	1,360	1,360	\$765	\$765
MANUFACTURING, BURLESON	G	CALDWELL REDUCTION TO BURLESON MANUFACTURING	G CARRIZO-WILCOX AQUIFER BURLESON COUNTY	0	50	50	50	85	85	N/A	\$500
MART	G	REUSE- WMARSS WACO EAST	G DIRECT REUSE	134	134	134	134	134	134	\$869	\$191
MERIDIAN	G	MERIDIAN OCR	G MERIDIAN OFF-CHANNEL LAKE/RESERVOIR	615	615	615	615	615	615	\$3961	\$1220
MINING, MCLENNAN	G	BRA SYSTEM OPERATIONS-LITTLE RIVER	G BRAZOS RIVER AUTHORITY LITTLE RIVER LAKE/RESERVOIR SYSTEM	0	0	0	1,050	1,050	1,050	N/A	\$66
MUNDAY	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	74	107	140	173	205	238	\$0	\$0
NORTH CENTRAL TEXAS MUNICIPAL WATER AUTHORITY - UNASSIGNED WATER VOLUMES	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	13,815	13,511	13,208	12,905	12,601	12,298	\$1308	\$313
PALO PINTO COUNTY MWD #1 - UNASSIGNED WATER VOLUMES	G	PALO PINTO OCR	G LAKE PALO PINTO OFF-CHANNEL LAKE/RESERVOIR	3,110	3,110	3,110	3,110	3,110	3,110	\$980	\$169
RIESEL	G	REUSE- WMARSS WACO EAST	G DIRECT REUSE	43	43	43	43	43	43	\$869	\$191
ROUND ROCK	G	TRINITY - WILLIAMSON COUNTY ASR	G TRINITY AQUIFER ASR WILLIAMSON COUNTY	0	0	0	0	9,050	9,050	N/A	\$368
RULE	G	LAKE CREEK RESERVOIR	G LAKE CREEK LAKE/RESERVOIR	12	18	23	29	34	40	\$0	\$0
VENUS	G	WOODBINE AQUIFER DEVELOPMENT	G WOODBINE AQUIFER JOHNSON COUNTY	0	150	150	450	450	450	N/A	\$203
WACO - UNASSIGNED WATER VOLUMES	G	REUSE- WMARSS WACO EAST	G DIRECT REUSE	0	0	0	0	0	0	N/A	N/A
Region G Total Alternative WMS Supplies				152,632	152,543	154,393	159,481	177,112	187,430		