

3.0 POPULATION AND EMPLOYMENT PROJECTIONS

Population and employment projections are important elements in the impact fee process. Wastewater flows depend on the residential population and commercial development served by the collection system and determine the sizing and location of collection system infrastructure. For the impact fee update, populations are projected for years 2017, 2027 and 2037. FNI utilized data from wholesale customer surveys, the Fort Worth Planning and Development Department and North Central Texas Council of Governments (NCTCOG) projections to determine the population and employment projections for the City of Fort Worth and its customers for the planning periods of 2017, 2027 and 2037.

3.1 CITY OF FORT WORTH PROJECTIONS

FNI utilized NCTCOG data, along with data from the City of Fort Worth Planning and Development Department, to develop population projections for the 2017, 2027 and 2037 planning periods. **Table 3-1** shows the City’s population and employment projections and annual growth rate for each 10-year period.

Table 3-1 City of Fort Worth Retail Service Population and Employment Projections

Fort Worth Wastewater Service Area					
Year	Area	Population		Employment	
		Amount	Annual Growth Rate*	Amount	Annual Growth Rate*
2017	Village Creek WRF	758,886	--	510,244	--
	TRA Denton Creek	42,967	--	21,507	--
	TRA Central	24,114	--	18,366	--
	Total	825,967	--	550,117	--
2027	Village Creek WRF	932,605	2.1%	625,190	2.1%
	TRA Denton Creek	62,491	3.8%	31,055	3.7%
	TRA Central	31,684	2.8%	23,656	2.6%
	Total	1,026,780	2.2%	679,901	2.1%
2037	Village Creek WRF	1,097,025	1.6%	741,037	1.7%
	TRA Denton Creek	75,263	1.9%	39,689	2.5%
	TRA Central	36,909	1.5%	28,961	2.0%
	Total	1,209,197	1.6%	809,687	1.8%

*Annual Growth Rate is based on information from NCTCOG and the Fort Worth Planning and Development Department

The Village Creek Water Reclamation Facility (WRF) retail service population is projected to annually increase 2.1% from 2017 to 2027 and 1.6% from 2027 to 2037. The Village Creek WRF retail service employment is projected to annually increase 2.1% from 2017 to 2027 and 1.7% from 2027 to 2037.

3.2 WHOLESALE CUSTOMERS

Surveys were sent out by the City of Fort Worth to each wholesale customer to provide population and employment projections for each planning period. Wholesale customers were contacted with follow-up emails or phone calls if no survey was returned by the requested due date. If no survey was returned, FNI used projection information from NCTCOG to estimate population and employment. The wholesale customer surveys received by FNI can be found in **Appendix A**. The completed surveys were compared to the NCTCOG projections to check for validity and consistency. Adjustments were made to population and employment projections where necessary. **Table 3-2** summarizes the sum of the wholesale customer population and employment projections within the City of Fort Worth’s wastewater service area.

Table 3-2 Wholesale Customer Service Population and Employment Projections

Fort Worth Wastewater Service Area					
Year	Area	Population		Employment	
		Amount	Annual Growth Rate*	Amount	Annual Growth Rate*
2017	Village Creek WRF	336,703	--	141,614	--
	TRA Denton Creek	2,400	--	695	--
	TRA Central	--	--	--	--
	Total	339,103	--	142,309	--
2027	Village Creek WRF	377,402	1.1%	172,705	2.0%
	TRA Denton Creek	2,400	0.0%	817	1.6%
	TRA Central	--	--	--	--
	Total	379,802	1.1%	173,522	2.0%
2037	Village Creek WRF	422,143	1.1%	201,183	1.5%
	TRA Denton Creek	2,400	0.0%	946	1.5%
	TRA Central	--	--	--	--
	Total	424,543	1.1%	202,129	1.5%

*Annual Growth Rate is based on information from NCTCOG, Fort Worth Wastewater Master Plan, and Wholesale Customer Surveys

The Village Creek WRF wholesale service population is projected to annually increase 1.1% from 2017 to 2027 and 1.1% from 2027 to 2037. The Village Creek WRF wholesale service employment is projected to annually increase 2.0% from 2017 to 2027 and 1.5% from 2027 to 2037. Detailed service population and employment projections broken down by each wholesale customer can be found in **Appendix B**.

3.3 TOTAL WASTEWATER SERVICE AREA

Table 3-3 shows the combined population and employment projections for the City of Fort Worth, and its wholesale customer cities. The total Village Creek WRF service population is projected to annually increase 1.8% from 2017 to 2027 and 1.5% from 2027 to 2037. The total Village Creek WRF service employment is projected to annually increase 2.0% from 2017 to 2027 and 1.7% from 2027 to 2037.

Table 3-3 Total Wastewater Service Area Population and Employment Projections

Fort Worth Wastewater Service Area					
Year	Area	Population		Employment	
		Amount	Annual Growth Rate*	Amount	Annual Growth Rate*
2017	Village Creek WRF	1,095,589	--	651,858	--
	TRA Denton Creek	45,367	--	22,202	--
	TRA Central	24,114	--	18,366	--
	Total	1,165,070	--	692,426	--
2027	Village Creek WRF	1,310,007	1.8%	797,895	2.0%
	TRA Denton Creek	64,891	3.6%	31,872	3.7%
	TRA Central	31,684	2.8%	23,656	2.6%
	Total	1,406,582	1.9%	853,423	2.1%
2037	Village Creek WRF	1,519,168	1.5%	942,220	1.7%
	TRA Denton Creek	77,663	1.8%	40,635	2.5%
	TRA Central	36,909	1.5%	28,961	2.0%
	Total	1,633,740	1.5%	1,011,816	1.7%

*Annual Growth Rate is based on information from NCTCOG, the Fort Worth Planning and Development Department and Wholesale Customer Surveys