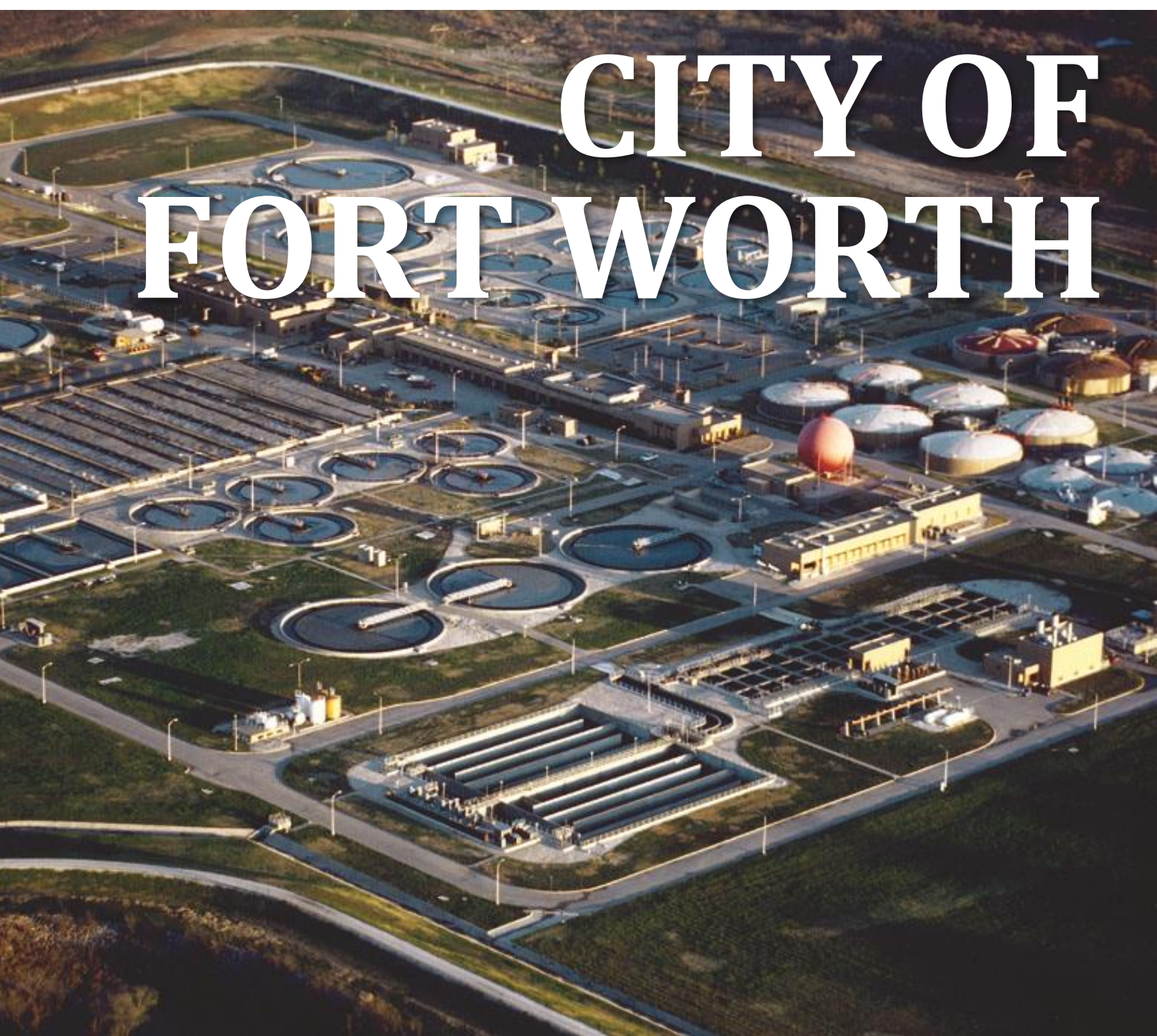


CITY OF FORT WORTH



WATER/WASTEWATER IMPACT FEE UPDATE



EXHIBIT B: LAND USE ASSUMPTIONS - WASTEWATER (2022-2041)

PREPARED BY:
FREESE AND NICHOLS, INC.
801 CHERRY STREET, SUITE 2800
FORT WORTH, TEXAS 76102
817-735-7300





Innovative approaches
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WATER & WASTEWATER IMPACT FEE UPDATE

EXHIBIT B: LAND USE ASSUMPTIONS - WASTEWATER (2022 - 2041)

Prepared for:

Fort Worth Water



July 22, 2021

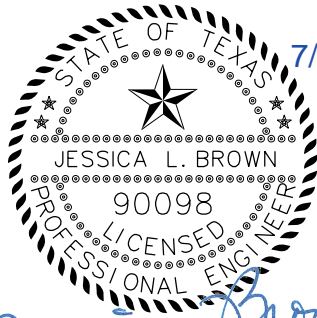
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FREESE AND NICHOLS, INC.
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Fort Worth, Texas 76102
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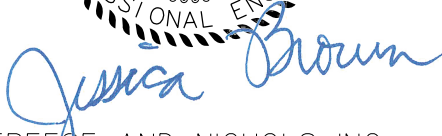
WATER & WASTEWATER IMPACT FEE UPDATE

Prepared for:

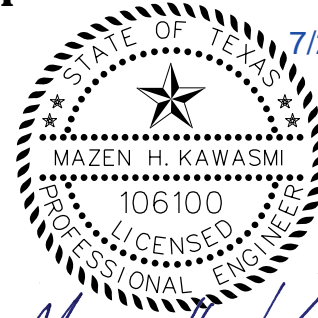
Fort Worth Water



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TEXAS REGISTERED
ENGINEERING FIRM
F-2144



7/22/2021



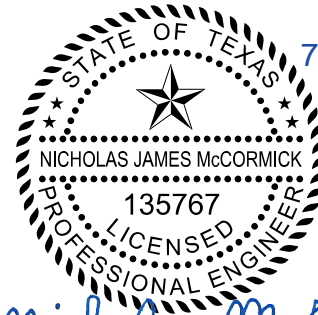
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F-2144



7/22/2021



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TEXAS REGISTERED
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F-2144



7/22/2021



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ENGINEERING FIRM
F-2144

Prepared by:

FREESE AND NICHOLS, INC.
801 Cherry Street, Suite 2800
Fort Worth, Texas 76102
817-735-7300

FTW20118

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APPENDICES

- Appendix A- Wastewater Wholesale Customer Surveys
- Appendix B- Wastewater Wholesale Customer Population and Employment Projections

1.0 INTRODUCTION

Chapter 395 of the Texas Local Government Code requires an impact fee analysis before impact fees can be assessed. Chapter 395 defines an impact fee as “a charge or assessment imposed by a political subdivision against new development in order to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development.” Chapter 395 identifies the following items as impact fee eligible costs:

- Construction contract price
- Surveying, engineering and inspection fees
- Land acquisition costs
- Cost of engineering studies
- Fees paid to the consultant preparing or updating the capital improvements plan (CIP)
- Projected interest charges and other finance costs for projects identified in the CIP

Chapter 395 also identifies items that impact fees cannot be used to pay for, such as:

- Construction, acquisition, or expansion of public facilities or assets other than those identified on the capital improvements plan
- Repair, operation or maintenance of existing or new capital improvements
- Upgrading, updating, expanding or replacing existing capital improvements to serve existing development in order to meet stricter safety, efficiency, environmental or regulatory standards
- Upgrading, updating, expanding or replacing existing capital improvements to provide better service to existing development
- Administrative and operating costs of the political subdivision
- Principal payments and interest or other finance charges on bonds or other indebtedness, except as allowed above

In December 2019, the City of Fort Worth authorized Freese and Nichols, Inc. (FNI) to perform an update to the impact fee analysis on the City's water and wastewater systems. The purpose of this report is to address the methodology used in the development of the wastewater land use assumptions. The methodology used herein satisfies the requirements of the Texas Local Government Code Section 395 for the establishment of water and wastewater impact fees.

The City updated its wastewater land use assumptions and capital improvements plan in 1993, 1996, 1999, 2004, 2009, 2012 and 2017. This report updates the wastewater land use assumptions for the years 2022, 2031 and 2041. This information will be used in the update of the wastewater impact fees.

2.0 WASTEWATER SERVICE AREA

Chapter 395 defines the service area as the area within the corporate boundaries or extraterritorial jurisdiction, as determined under Chapter 42, of the political subdivision to be served by the capital improvements or facilities expansions specified in the capital improvements plan, except roadway facilities and storm water, drainage, and flood control facilities. The service area for Fort Worth’s wastewater system is defined as the city limits, portions of the unincorporated existing extraterritorial jurisdiction (ETJ), and wholesale customers. This service area is the area to which wastewater service could be provided on a retail basis and to all wholesale wastewater customers. **Figure B-1** shows the entire wastewater service area for the City of Fort Worth.

The City of Fort Worth provides wastewater service to 23 wholesale customers which make up the wastewater service area. For the purposes of this study, it is assumed that the wholesale customers will remain under contract with the City for the duration of the future planning periods (2022-2041). The wholesale customers are:

- Benbrook Water Authority
- Bethesda Water Supply Corp.
- Blue Mound
- Burleson
- Crowley
- Edgecliff Village
- Everman
- Forest Hill
- Haltom City
- Hurst
- Kennedale
- Lake Worth
- North Richland Hills
- Pantego
- Richland Hills
- River Oaks
- Saginaw
- Sansom Park
- Trinity River Authority
- Watauga
- Westover Hills
- Westworth Village
- White Settlement

The City also provides wastewater service to unincorporated areas that are not included within its city limits or its wholesale customers’ city limits.

1. Extraterritorial Jurisdiction (ETJ) Boundary is from January 26, 2021. City Council consideration of changes on May 11, 2021 not included. (See Descriptions Below)

M&C 21-0322 - (ETJ Adjacent to CD 7) Authorize an Interlocal Agreement allocating ETJ and Retail Water and Sewer Service Areas between the Town of Northlake, the City of Justin and the City of Fort Worth, and the First Amendment to Interlocal Agreement allocating ETJ between the City of Fort Worth and the Town of Northlake and adopt the attached Joint Resolution transferring certain ETJ between the City of Fort Worth and the City of Justin; Releasing ETJ by the City of Northlake; Providing for severability; Providing for recordation; and Providing an effective date.



M&C 21-1470 - Resolution Authorizing a Reduction in the City of Fort Worth ETJ by adjusting the ETJ Boundary between Fort Worth and Justin.

M&C 21-0197 - (ETJ near CD 7) Approve Joint Ordinance and Boundary Adjustment Agreement with the City of New Fairview to Release 179,779 Acres of Land in the TJ of the City of Fort Worth and Adjust the ETJs between the Cities of Fort Worth and New Fairview (Denton County).

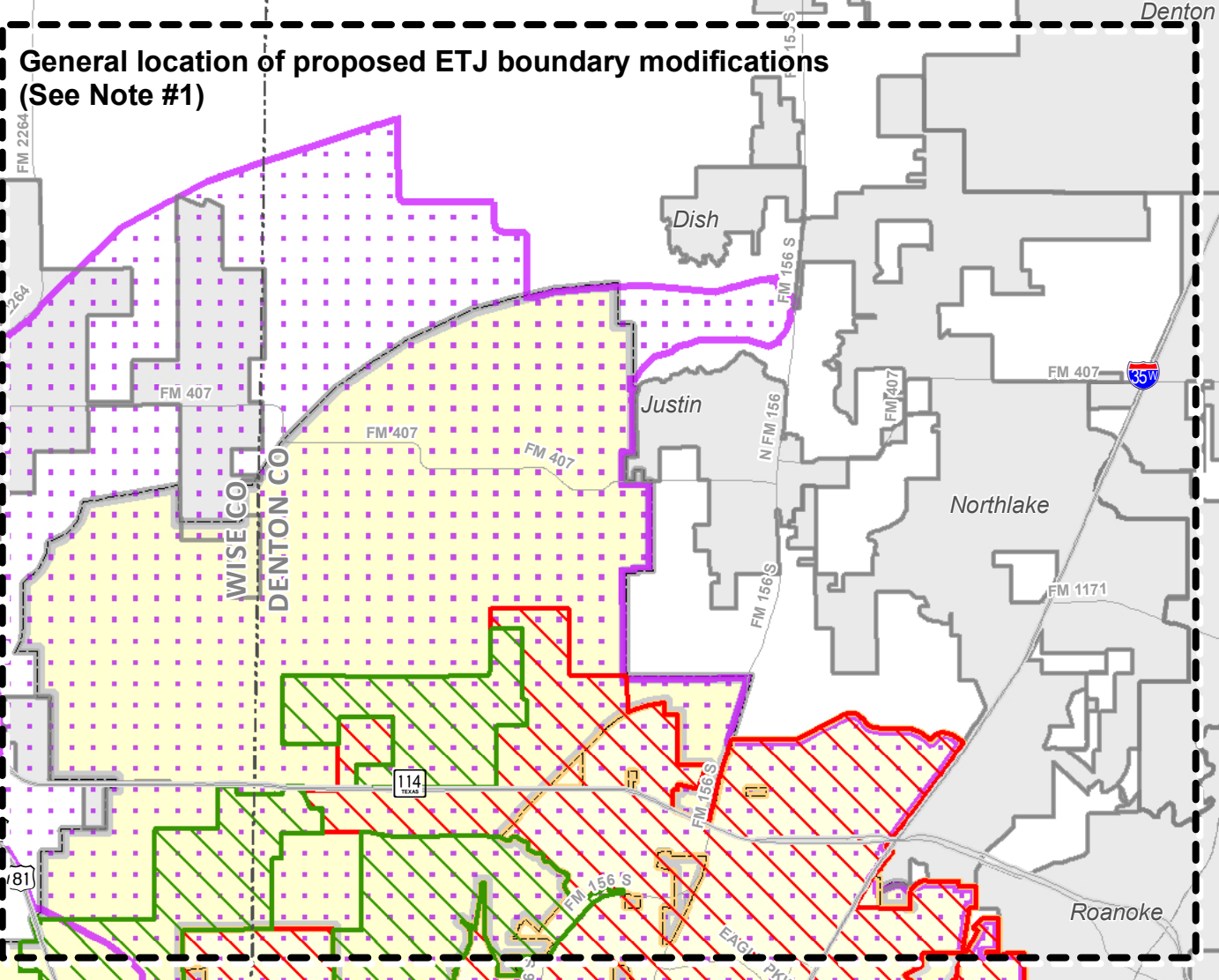
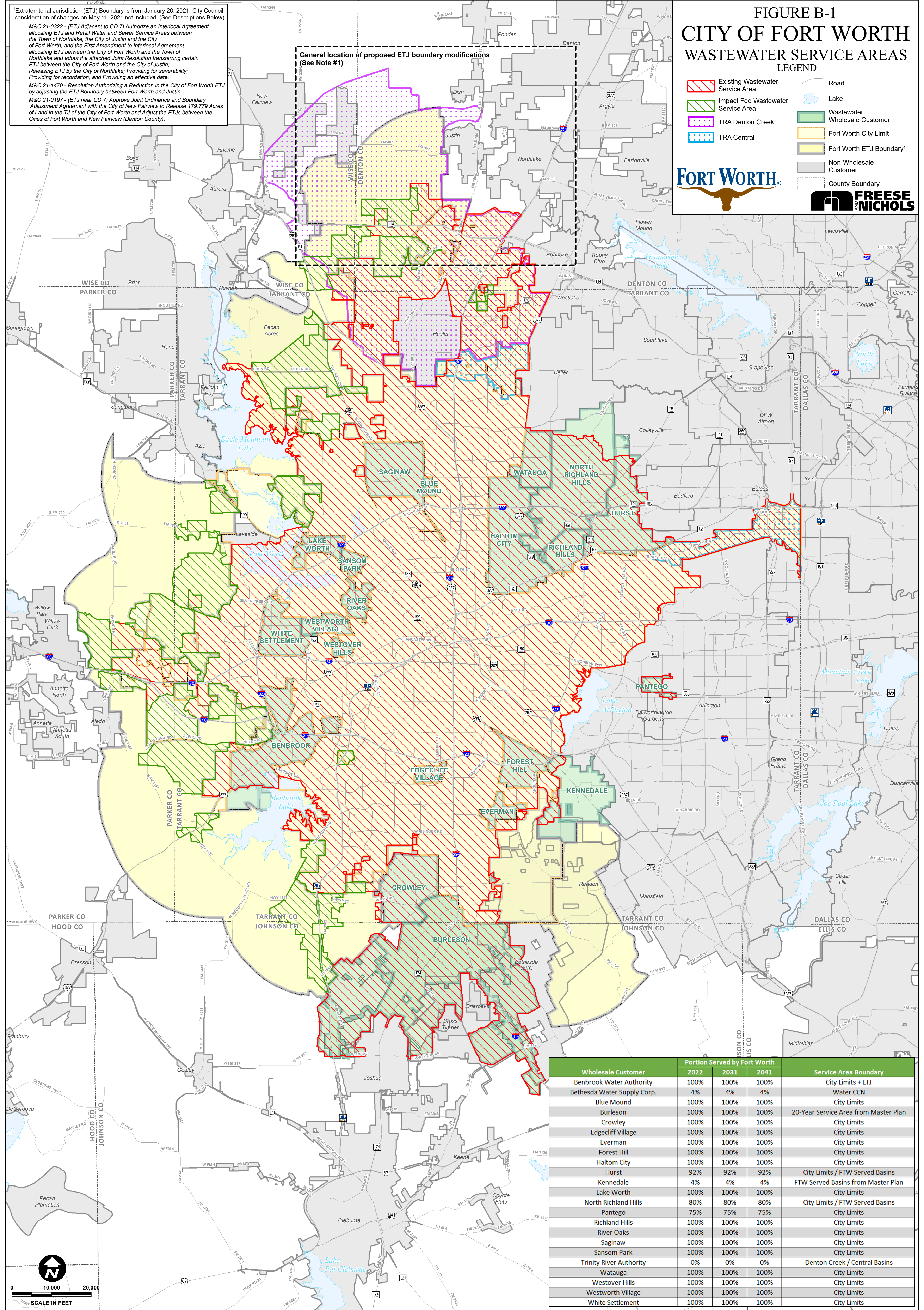
FIGURE B-1 CITY OF FORT WORTH WASTEWATER SERVICE AREAS

LEGEND

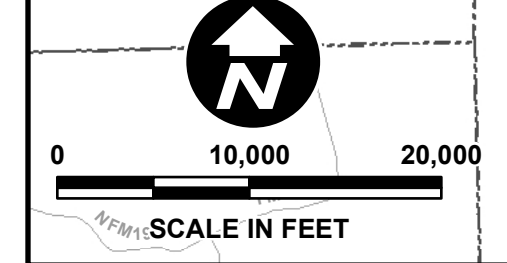
- Existing Wastewater Service Area
- Impact Fee Wastewater Service Area
- TRA Denton Creek
- TRA Central
- Road
- Lake
- Wastewater Wholesale Customer
- Fort Worth City Limit
- Fort Worth ETJ Boundary¹
- Non-Wholesale Customer
- County Boundary

General location of proposed ETJ boundary modifications (See Note #1)

Wholesale Customer	Portion Served by Fort Worth			Service Area Boundary
	2022	2031	2041	
Benbrook Water Authority	100%	100%	100%	City Limits + ETJ
Bethesda Water Supply Corp.	4%	4%	4%	Water CCN
Blue Mound	100%	100%	100%	City Limits
Burleson	100%	100%	100%	20-Year Service Area from Master Plan
Crowley	100%	100%	100%	City Limits
Edgcliff Village	100%	100%	100%	City Limits
Everman	100%	100%	100%	City Limits
Forest Hill	100%	100%	100%	City Limits
Haltom City	100%	100%	100%	City Limits
Hurst	92%	92%	92%	City Limits / FTW Served Basins
Kennedale	4%	4%	4%	FTW Served Basins from Master Plan
Lake Worth	100%	100%	100%	City Limits
North Richland Hills	80%	80%	80%	City Limits / FTW Served Basins
Pantego	75%	75%	75%	City Limits
Richland Hills	100%	100%	100%	City Limits
River Oaks	100%	100%	100%	City Limits
Saginaw	100%	100%	100%	City Limits
Sansom Park	100%	100%	100%	City Limits
Trinity River Authority	0%	0%	0%	Denton Creek / Central Basins
Watauga	100%	100%	100%	City Limits
Westover Hills	100%	100%	100%	City Limits
Westworth Village	100%	100%	100%	City Limits
White Settlement	100%	100%	100%	City Limits



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 2022, 2031 and 2041. 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 2022, 2031 and 2041. At the time of this study, 2020 U.S. Census information was not available. Historical NCTCOG information was utilized as the basis for the population and employment projections.

3.1 CITY OF FORT WORTH PROJECTIONS

FNI utilized development data from the City of Fort Worth Planning and Development Department, along with NCTCOG data, to develop population projections for the 2022, 2031 and 2041 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*
2022	Village Creek WRF	839,735	--	553,086	--
	TRA Denton Creek	54,497	--	50,765	--
	TRA Central	17,738	--	11,158	--
	Total	911,970	--	615,009	--
2031	Village Creek WRF	1,043,237	2.2%	627,583	1.3%
	TRA Denton Creek	70,672	2.6%	63,259	2.2%
	TRA Central	19,769	1.1%	13,199	1.7%
	Total	1,133,678	2.2%	704,041	1.4%
2041	Village Creek WRF	1,270,448	2.0%	736,753	1.6%
	TRA Denton Creek	91,385	2.6%	76,373	1.9%
	TRA Central	20,114	0.2%	14,522	1.0%
	Total	1,381,947	2.0%	827,648	1.6%

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

The total Village Creek Water Reclamation Facility (WRF) retail service population is projected to increase 2.2% annually from 2022 to 2031 and 2.0% annually from 2031 to 2041. The total Village Creek WRF retail employment is projected to increase 1.3% annually from 2022 to 2031 and 1.6% annually from 2031 to 2041.

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 NCTCOG projections to check for validity and consistency. Adjustments were made to population and employment projections where necessary. **Table 3-2** summarizes the total served wholesale customer population and employment projections within the City of Fort Worth’s wastewater service area.

Table 3-2 Wholesale Customer Population and Employment Projections

Fort Worth Wastewater Service Area					
Year	Area	Population		Employment	
		Amount	Annual Growth Rate*	Amount	Annual Growth Rate*
2022	Village Creek WRF	364,844	--	164,635	--
	TRA Denton Creek	--	--	--	--
	TRA Central	--	--	--	--
	Total	364,844	--	164,635	--
2031	Village Creek WRF	429,667	1.6%	185,300	1.2%
	TRA Denton Creek	--	--	--	--
	TRA Central	--	--	--	--
	Total	429,667	1.6%	185,300	1.2%
2041	Village Creek WRF	490,403	1.3%	200,516	0.8%
	TRA Denton Creek	--	--	--	--
	TRA Central	--	--	--	--
	Total	490,403	1.3%	200,516	0.8%

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

The Village Creek WRF wholesale service population is projected to increase 1.6% annually from 2022 to 2031 and 1.3% annually from 2031 to 2041. The total Village Creek WRF wholesale service employment is projected to increase 1.2% annually from 2022 to 2031 and 0.8% annually from 2031 to 2041. 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 customers. The total Village Creek WRF population is projected to increase 2.0% annually from 2022 to 2031 and 1.8% annually from 2031 to 2041. The employment is projected to increase 1.3% annually from 2022 to 2031 and 1.4% annually from 2031 to 2041.

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*
2022	Village Creek WRF	1,204,579	--	717,721	--
	TRA Denton Creek	54,497	--	50,765	--
	TRA Central	17,738	--	11,158	--
	Total	1,276,814	--	779,644	--
2031	Village Creek WRF	1,472,904	2.0%	812,883	1.3%
	TRA Denton Creek	70,672	2.6%	63,259	2.2%
	TRA Central	19,769	1.1%	13,199	1.7%
	Total	1,563,345	2.0%	889,341	1.3%
2041	Village Creek WRF	1,760,851	1.8%	937,269	1.4%
	TRA Denton Creek	91,385	2.6%	76,373	1.9%
	TRA Central	20,114	0.2%	14,522	1.0%
	Total	1,872,350	1.8%	1,028,164	1.5%

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

Appendix A

Wastewater Wholesale Customer Surveys



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Benbrook Water Authority**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	22,933
2020	23,176
2030	28,314
2040	34,213

Employment Projections	
2019	6,132
2020	6,242
2030	7,342
2040	8,441

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	8
2030	8
2040	8

Maximum Day Demand Projections (MGD)	
2020	15
2030	15
2040	15

Percentage of Water Demands Served by FTW	
2020	0%
2030	0%
2040	0%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **Yes.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	5,145
3/4"	43
1"	3,075
1-1/2"	17
2"	87
3"	25
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	138
3/4"	4
1"	221
1-1/2"	54
2"	107
3"	11
4"	3
6"	2
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Resolutions and water impact fees.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	
2030	
2040	

Peak Wet Weather Flow Projection (MGD)	
2020	
2030	
2040	

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: _____, Non-Residential: _____)

17. Will your service area boundaries be expanded in the next 20 years? (Y/N)

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	5,145
3/4"	43
1"	3,075
1-1/2"	17
2"	87
3"	25
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	138
3/4"	4
1"	221
1-1/2"	54
2"	107
3"	11
4"	3
6"	2
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Bethesda Water Supply Corp.**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	31,563
2020	31,869
2030	35,099
2040	38,656

Employment Projections	
2019	0
2020	0
2030	0
2040	0

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	2,990,000
2030	3,290,000
2040	3,620,000

Maximum Day Demand Projections (MGD)	
2020	8,630,000
2030	9,502,000
2040	10,400,000

Percentage of Water Demands Served by FTW	
2020	68%
2030	75%
2040	79%

8. Will you require a larger and/or additional meter within the next 20 years? **Yes.**
9. Will your service area boundaries be expanded within the next 20 years? **Yes.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	10,293
3/4"	8
1"	42
1-1/2"	4
2"	2
3"	1
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	142
3/4"	8
1"	44
1-1/2"	13
2"	55
3"	1
4"	8
6"	1
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes; \$1,000.00 equity buy-in fee per 5/8" meter equivalent.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections	
2020	78,732
2030	78,732
2040	78,732

Peak Wet Weather Flow Projections	
2020	101,041
2030	101,041
2040	101,041

Percentage of Wastewater Flow Served by FTW	
2020	4%
2030	4%
2040	4%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 426, Non-Residential: 0)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	10,293
3/4"	8
1"	42
1-1/2"	4
2"	2
3"	1
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	142
3/4"	8
1"	44
1-1/2"	13
2"	55
3"	1
4"	8
6"	1
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **No.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND

FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Blue Mound**
2. Wholesale Customer Type (**Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	2,636
2020	2,700
2030	2,700
2040	2,700

Employment Projections	
2019	--
2020	732
2030	855
2040	984

Wastewater Service Information

5. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0.145
2030	0.145
2040	0.145

Peak Wet Weather Flow Projections (MGD)	
2020	0.19
2030	0.19
2040	0.19

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

8. Existing number of wastewater customers SERVED by Fort Worth
(Residential: 807, Non-Residential: 26)
9. Will your service area boundaries be expanded in the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	807
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	24
3/4"	0
1"	1
1-1/2"	0
2"	1
3"	0
4"	0
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Burleson**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	
2020	49,981
2030	77,949
2040	108,681

Employment Projections	
2019	22,925
2020	23,382
2030	26,700
2040	30,700

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	8.22
2030	9.68
2040	10.30

Maximum Day Demand Projections (MGD)	
2020	18.08
2030	21.29
2040	22.65

Percentage of Water Demands Served by FTW	
2020	93%
2030	76%
2040	62%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	13,746
3/4"	3
1"	202
1-1/2"	8
2"	1
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	484
3/4"	5
1"	287
1-1/2"	140
2"	285
3"	58
4"	6
6"	1
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	5.78
2030	8.94
2040	10.61

Peak Wet Weather Flow Projections (MGD)	
2020	17.22
2030	27.97
2040	33.63

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: _____, Non-Residential: _____)

17. Will your service area boundaries be expanded in the next 20 years? Yes.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	13,746
3/4"	2
1"	3
1-1/2"	3
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	385
3/4"	0
1"	139
1-1/2"	101
2"	210
3"	20
4"	3
6"	1
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Crowley**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	16,721
2020	18,053
2030	25,000
2040	35,000

Employment Projections	
2019	--
2020	3,089
2030	3,907
2040	4,861

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	3
2030	4
2040	5

Maximum Day Demand Projections (MGD)	
2020	7
2030	8
2040	10

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	6,467
3/4"	0
1"	35
1-1/2"	16
2"	30
3"	2
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	0
1"	59
1-1/2"	14
2"	48
3"	15
4"	0
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Ordinances in place.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	4
2030	12
2040	14

Peak Wet Weather Flow Projections (MGD)	
2020	5
2030	13
2040	15

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 6,162, Non-Residential: 660)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	6,467
3/4"	0
1"	35
1-1/2"	16
2"	30
3"	2
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	0
1"	59
1-1/2"	14
2"	48
3"	15
4"	0
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Town of Edgecliff Village**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	3,220
2020	3,240
2030	3,260
2040	3,260

Employment Projections	
2019	--
2020	1,622
2030	1,810
2040	1,912

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	0.44
2030	0.44
2040	0.44

Maximum Day Demand Projections (MGD)	
2020	1.15
2030	1.15
2040	1.15

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? (Y/N)
9. Will your service area boundaries be expanded within the next 20 years? (Y/N)
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	78
3/4"	1,257
1"	33
1-1/2"	5
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	3
1"	4
1-1/2"	0
2"	7
3"	0
4"	0
6"	1
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections	
2020	0.32
2030	0.33
2040	0.33

Peak Wet Weather Flow Projections	
2020	1.28
2030	1.32
2040	1.32

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: _____, Non-Residential: _____)

17. Will your service area boundaries be expanded in the next 20 years? (Y/N)

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	78
3/4"	1,257
1"	33
1-1/2"	5
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	3
1"	4
1-1/2"	0
2"	7
3"	0
4"	0
6"	1
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Everman**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	6,250
2020	6,500
2030	7,500
2040	8,000

Employment Projections	
2019	--
2020	1,652
2030	1,724
2040	1,793

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	0
2030	0
2040	0

Maximum Day Demand Projections (MGD)	
2020	0
2030	0
2040	0

Percentage of Water Demands Served by FTW	
2020	0%
2030	0%
2040	0%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	1,817
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	156
1"	14
1-1/2"	5
2"	11
3"	3
4"	1
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	400,000
2030	600,000
2040	700,000

Peak Wet Weather Flow Projections (MGD)	
2020	300,000
2030	500,000
2040	600,000

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 1,810, Non-Residential: 153)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	1,817
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	156
1"	14
1-1/2"	5
2"	11
3"	3
4"	1
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Forest Hill**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	13,000
2020	13,100
2030	13,150
2040	13,200

Employment Projections	
2019	9,550
2020	9,600
2030	9,712
2040	9,907

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	2.200
2030	2.200
2040	2.300

Maximum Day Demand Projections (MGD)	
2020	2.700
2030	2.800
2040	2.805

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **Yes.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	4,559
1"	10
1-1/2"	38
2"	55
3"	1
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	10
1"	7
1-1/2"	2
2"	6
3"	1
4"	1
6"	1
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes, see attached form.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	2.281
2030	2.200
2040	2.300

Peak Wet Weather Flow Projection (MGD)	
2020	2.180
2030	2.100
2040	2.100

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential: 4,329, Non-Residential: 333)

17. Will your service area boundaries be expanded in the next 20 years? No.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	4,559
1"	10
1-1/2"	38
2"	55
3"	1
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	10
1"	7
1-1/2"	2
2"	6
3"	1
4"	1
6"	1
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes, see attached documentation.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Haltom City**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	43,000
2020	43,500
2030	50,000
2040	50,000

Employment Projections	
2019	21,000
2020	21,300
2030	24,500
2040	24,500

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	4.4
2030	4.9
2040	4.9

Maximum Day Demand Projections (MGD)	
2020	8.8
2030	9.8
2040	9.8

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? (Y/N)
9. Will your service area boundaries be expanded within the next 20 years? (Y/N)
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	11,369
3/4"	0
1"	4
1-1/2"	0
2"	37
3"	1
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	1,584
3/4"	0
1"	5
1-1/2"	0
2"	18
3"	1
4"	1
6"	2
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	
2030	
2040	

Peak Wet Weather Flow Projections (MGD)	
2020	
2030	
2040	

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: _____, Non-Residential: _____)

17. Will your service area boundaries be expanded in the next 20 years? (Y/N)

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	11,369
3/4"	0
1"	4
1-1/2"	0
2"	37
3"	1
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	1,584
3/4"	0
1"	5
1-1/2"	0
2"	18
3"	1
4"	1
6"	2
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Hurst**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	38,187
2020	38,510
2030	39,637
2040	40,817

Employment Projections	
2019	26,296
2020	26,711
2030	30,861
2040	32,936

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	5
2030	5
2040	6

Maximum Day Demand Projections (MGD)	
2020	10
2030	10
2040	11

Percentage of Water Demands Served by FTW	
2020	99%
2030	99%
2040	99%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	9,454
3/4"	1
1"	1,517
1-1/2"	33
2"	4
3"	0
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	465
3/4"	0
1"	367
1-1/2"	251
2"	239
3"	32
4"	18
6"	4
8"	1
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Ordinance #2353.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	4
2030	4
2040	5

Peak Wet Weather Flow Projections (MGD)	
2020	16
2030	16
2040	20

Percentage of Wastewater Flow Served by FTW	
2020	92%
2030	92%
2040	92%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 10,477, Non-Residential: 1,377)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	9,454
3/4"	1
1"	1,517
1-1/2"	33
2"	4
3"	0
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	465
3/4"	0
1"	367
1-1/2"	251
2"	239
3"	32
4"	18
6"	4
8"	1
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? Ordinance #2353.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Kennedale**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	
2020	7,670
2030	10,820
2040	15,263

Employment Projections	
2019	
2020	4,616
2030	5,864
2040	7,119

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	0.21
2030	0.23
2040	0.21

Maximum Day Demand Projections (MGD)	
2020	0.47
2030	0.50
2040	0.47

Percentage of Water Demands Served by FTW	
2020	20%
2030	15%
2040	10%

8. Will you require a larger and/or additional meter within the next 20 years?
9. Will your service area boundaries be expanded within the next 20 years?
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	2,543
1"	313
1-1/2"	5
2"	4
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	229
1"	57
1-1/2"	13
2"	38
3"	44
4"	3
6"	
8"	
10"	

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0.69
2030	0.97
2040	1.37

Peak Wet Weather Flow Projection (MGD)	
2020	2.76
2030	3.88
2040	5.48

Percentage of Wastewater Flow Served by FTW	
2020	4%
2030	4%
2040	4%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential:____, Non-Residential:____)

17. Will your service area boundaries be expanded in the next 20 years?

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Lake Worth**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	4,584
2020	4,957
2030	5,831
2040	6,468

Employment Projections	
2019	3,125
2020	3,137
2030	3,779
2040	3,850

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	600,000
2030	1,000,000
2040	1,250,000

Maximum Day Demand Projections (MGD)	
2020	1,200,000
2030	1,800,000
2040	2,250,000

Percentage of Water Demands Served by FTW	
2020	81%
2030	90%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **Yes.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	1,663
1"	171
1-1/2"	0
2"	1
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	123
1"	129
1-1/2"	46
2"	108
3"	15
4"	7
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	800,000
2030	1,000,000
2040	1,250,000

Peak Wet Weather Flow Projections (MGD)	
2020	1,700,000
2030	2,000,000
2040	2,250,000

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 2,030, Non-Residential: 0)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	1,663
1"	171
1-1/2"	0
2"	1
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	123
1"	129
1-1/2"	46
2"	108
3"	15
4"	7
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of North Richland Hills**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	71,269
2020	72,000
2030	79,000
2040	88,000

Employment Projections	
2019	23,738
2020	23,964
2030	26,240
2040	28,764

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	6
2030	6
2040	7

Maximum Day Demand Projections (MGD)	
2020	11
2030	11
2040	12

Percentage of Water Demands Served by FTW	
2020	58%
2030	58%
2040	58%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	19,429
1"	960
1-1/2"	8
2"	17
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	683
1"	404
1-1/2"	64
2"	827
3"	29
4"	18
6"	4
8"	2
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	2
2030	2
2040	2

Peak Wet Weather Flow Projections (MGD)	
2020	7
2030	7
2040	7

Percentage of Wastewater Flow Served by FTW	
2020	80%
2030	80%
2040	80%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 18,979, Non-Residential: 2,031)

17. Will your service area boundaries be expanded in the next 20 years? No.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	19,429
1"	960
1-1/2"	8
2"	17
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	683
1"	404
1-1/2"	64
2"	827
3"	29
4"	18
6"	4
8"	2
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



<p>LEGEND</p> <p>FNI Responses in Blue</p> <p>City Responses in Red</p>
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Demographics Information

1. Wholesale Customer Name: **Town of Pantego**
2. Wholesale Customer Type (**Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	
2020	2,415
2030	2,465
2040	2,515

Employment Projections	
2019	
2020	1,826
2030	2,067
2040	2,294

Wastewater Service Information

5. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0.18
2030	0.18
2040	0.19

Peak Wet Weather Flow Projection (MGD)	
2020	0.72
2030	0.72
2040	0.72

Percentage of Wastewater Flow Served by FTW	
2020	75%
2030	75%
2040	75%

8. Existing number of wastewater customers SERVED by Fort Worth (Residential:____, Non-Residential:____)
9. Will your service area boundaries be expanded in the next 20 years?
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	655
1"	58
1-1/2"	5
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	439
1"	15
1-1/2"	13
2"	19
3"	3
4"	3
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Richland Hills**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	8,300
2020	8,300
2030	8,300
2040	8,300

Employment Projections	
2019	--
2020	8,937
2030	9,495
2040	10,072

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	1,200,000
2030	1,200,000
2040	1,200,000

Maximum Day Demand Projections (MGD)	
2020	2,500,000
2030	2,500,000
2040	2,500,000

Percentage of Water Demands Served by FTW	
2020	75%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **Yes.**
9. Will your service area boundaries be expanded within the next 20 years? **Yes.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	2
3/4"	2,778
1"	79
1-1/2"	17
2"	11
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	165
1"	85
1-1/2"	31
2"	42
3"	3
4"	2
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	1,500,000
2030	1,500,000
2040	1,500,000

Peak Wet Weather Flow Projections (MGD)	
2020	600,000
2030	600,000
2040	600,000

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 2,686, Non-Residential: 260)

17. Will your service area boundaries be expanded in the next 20 years? **Yes.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	2
3/4"	2,778
1"	79
1-1/2"	17
2"	11
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	165
1"	85
1-1/2"	31
2"	42
3"	3
4"	2
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of River Oaks**
2. Wholesale Customer Type (**Emergency Connection Water, 100% Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	7,427
2020	7,600
2030	8,152
2040	8,200

Employment Projections	
2019	7,619
2020	7,700
2030	8,200
2040	8,200

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040) **(Emergency Connection Only) City of River Oaks has a surface water plant.**

Average Day Demand Projections (MGD)	
2020	0
2030	0
2040	0

Maximum Day Demand Projections (MGD)	
2020	0
2030	0
2040	0

Percentage of Water Demands Served by FTW	
2020	0% (Emergency Only)
2030	0% (Emergency Only)
2040	0% (Emergency Only)

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") **2,723 Residential Connections**
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") **203 Non-Residential Customers**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
April 2020**



Residential Meters	
Meter Size	Quantity
5/8"	2,529
3/4"	15
1"	49
1-1/2"	9
2"	2
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	274
3/4"	0
1"	66
1-1/2"	41
2"	36
3"	2
4"	2
6"	5
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

Cannot be measured. City of River Oaks and the City of Fort Worth have 14 interconnects. See attached contract and map for calculations.

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0.76
2030	0.82
2040	0.82

Peak Wet Weather Flow Projection (MGD)	
2020	3.04
2030	3.28
2040	3.28

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential: 2,711, Non-Residential: 191)

17. Will your service area boundaries be expanded in the next 20 years? No.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



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19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



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Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

20. Are there any current ordinances concerning wastewater impact fees within your utility? No, City of River Oaks collects only Fort Worth Impact Fee under any new development.



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LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Saginaw**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	22,380
2020	22,940
2030	29,364
2040	33,000

Employment Projections	
2019	11,311
2020	11,640
2030	15,195
2040	17,900

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	3.27
2030	4.18
2040	4.70

Maximum Day Demand Projections (MGD)	
2020	6.41
2030	8.21
2040	9.22

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



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Residential Meters	
Meter Size	Quantity
5/8"	7,950
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Total: 7,950

Non-Residential Meters	
Meter Size	Quantity
5/8"	333
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Total: 333

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	2.57
2030	3.29
2040	3.70

Peak Wet Weather Flow Projection (MGD)	
2020	10.28
2030	13.16
2040	14.8

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential: ____, Non-Residential: ____) **Total: 8,283**

17. Will your service area boundaries be expanded in the next 20 years? No.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



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Residential Meters	
Meter Size	Quantity
5/8"	7,950
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Total: 7,950

Non-Residential Meters	
Meter Size	Quantity
5/8"	333
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Total: 333

20. Are there any current ordinances concerning wastewater impact fees within your utility? Ordinance 2011-21 and Amending Ordinance 2011-22.



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LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of Sansom Park**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	5,075
2020	5,575
2030	5,845
2040	6,147

Employment Projections	
2019	--
2020	1,139
2030	1,219
2040	1,306

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	
2030	
2040	

Maximum Day Demand Projections (MGD)	
2020	
2030	
2040	

Percentage of Water Demands Served by FTW	
2020	0%
2030	0%
2040	0%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
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Residential Meters	
Meter Size	Quantity
5/8"	1,413
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	110
3/4"	0
1"	1
1-1/2"	0
2"	1
3"	4
4"	0
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	410,000
2030	500,000
2040	600,000

Peak Wet Weather Flow Projection (MGD)	
2020	460,000
2030	570,000
2040	680,000

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential: 1,413, Non-Residential: 116)

17. Will your service area boundaries be expanded in the next 20 years? No.

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
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Residential Meters	
Meter Size	Quantity
5/8"	1,413
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	110
3/4"	0
1"	1
1-1/2"	0
2"	1
3"	4
4"	0
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes.**



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
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<p>LEGEND</p> <p>FNI Responses in Blue</p> <p>City Responses in Red</p>
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Demographics Information

1. Wholesale Customer Name: **City of Watauga**
2. Wholesale Customer Type (**Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	23,770
2020	24,793
2030	27,387
2040	30,000

Employment Projections	
2019	--
2020	4,284
2030	4,838
2040	4,938

Wastewater Service Information

5. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040) **100%**
6. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040) **100%**
7. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	2.48
2030	2.74
2040	2.76

Peak Wet Weather Flow Projection (MGD)	
2020	9.92
2030	10.96
2040	11.04

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

8. Existing number of wastewater customers SERVED by Fort Worth (Residential:____, Non-Residential:____) **8,315 connections.**
9. Will your service area boundaries be expanded in the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section. **344 total meters.**



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Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	6,377
1"	1,925
1-1/2"	5
2"	120
3"	3
4"	4
6"	0
8"	1
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	0
1"	0
1-1/2"	0
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning wastewater impact fees within your utility? Fort Worth Impact Fee.



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WATER/WASTEWATER SERVICE PROJECTIONS
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LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Town of Westover Hills**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	682
2020	682
2030	682
2040	682

Employment Projections	
2019	576
2020	576
2030	576
2040	576

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	1
2030	1
2040	1

Maximum Day Demand Projections (MGD)	
2020	1
2030	1
2040	1

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years? **No.**
9. Will your service area boundaries be expanded within the next 20 years? **No.**
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
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Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	7
1"	110
1-1/2"	149
2"	41
3"	2
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	2
3/4"	0
1"	0
1-1/2"	1
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

12. Are there any current ordinances concerning water impact fees within your utility?

Yes, ordinance replicating those of Fort Worth.

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0
2030	0
2040	0

Peak Wet Weather Flow Projections (MGD)	
2020	0
2030	0
2040	0

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of wastewater customers SERVED by Fort Worth

(Residential: 219, Non-Residential: 0)

17. Will your service area boundaries be expanded in the next 20 years? **No.**

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



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Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	7
1"	110
1-1/2"	149
2"	41
3"	2
4"	1
6"	0
8"	0
10"	0

Non-Residential Meters	
Meter Size	Quantity
5/8"	2
3/4"	0
1"	0
1-1/2"	1
2"	0
3"	0
4"	0
6"	0
8"	0
10"	0

20. Are there any current ordinances concerning wastewater impact fees within your utility? **Yes, matches what the City of Fort Worth has.**



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LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **Westworth Village**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	
2020	3,157
2030	3,214
2040	3,272

Employment Projections	
2019	
2020	1,683
2030	1,778
2040	1,863

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	0.34
2030	0.35
2040	0.36

Maximum Day Demand Projections (MGD)	
2020	0.85
2030	0.87
2040	0.90

Percentage of Water Demands Served by FTW	
2020	100%
2030	100%
2040	100%

8. Will you require a larger and/or additional meter within the next 20 years?
9. Will your service area boundaries be expanded within the next 20 years?
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
12. Annual residential consumption per meter (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
13. Annual non-residential consumption per meter (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



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Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	543
1"	6
1-1/2"	0
2"	3
3"	0
4"	0
6"	0
8"	0
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	0
3/4"	3
1"	15
1-1/2"	6
2"	18
3"	2
4"	1
6"	1
8"	0
10"	0

14. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

15. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

16. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

17. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	0.32
2030	0.32
2040	0.33

Peak Wet Weather Flow Projection (MGD)	
2020	1.28
2030	1.28
2040	1.32

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

18. Existing number of

wastewater customers SERVED by Fort Worth

(Residential: ____, Non-Residential: ____)

19. Will your service area boundaries be expanded in the next 20 years?

20. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.

21. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") - Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
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Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

22. Are there any current ordinances concerning wastewater impact fees within your utility?



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
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LEGEND
FNI Responses in Blue
City Responses in Red

Demographics Information

1. Wholesale Customer Name: **City of White Settlement**
2. Wholesale Customer Type (**Water and Wastewater**)
3. City-Wide Population Projections (2019, 2020, 2030, 2040)
4. City-Wide Employment Projections (2019, 2020, 2030, 2040)

Population Projections	
2019	
2020	16,997
2030	17,522
2040	17,530

Employment Projections	
2019	
2020	8,216
2030	9,458
2040	10,353

Water Service Information

5. Average Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
6. Maximum Day Demand Projections SERVED by Fort Worth (2020, 2030, 2040)
7. What percentage of your projected water demands are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Demand Projections (MGD)	
2020	1.14
2030	1.18
2040	1.18

Maximum Day Demand Projections (MGD)	
2020	1.94
2030	2.01
2040	2.01

Percentage of Water Demands Served by FTW	
2020	55%
2030	55%
2040	55%

8. Will you require a larger and/or additional meter within the next 20 years?
9. Will your service area boundaries be expanded within the next 20 years?
10. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")
11. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10")



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
FOR IMPACT FEE STUDY
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Residential Meters	
Meter Size	Quantity
5/8"	2,760
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	125
3/4"	0
1"	6
1-1/2"	25
2"	57
3"	7
4"	2
6"	1
8"	
10"	

12. Are there any current ordinances concerning water impact fees within your utility?

Wastewater Service Information

13. Average Day Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

14. Peak Wet Weather Flow Projections SERVED by Fort Worth (2020, 2030, 2040)

15. What percentage of your projected wastewater flows are anticipated to be served by Fort Worth? (2020, 2030, 2040)

Average Day Flow Projections (MGD)	
2020	1.70
2030	1.75
2040	1.75

Peak Wet Weather Flow Projection (MGD)	
2020	6.80
2030	7.00
2040	7.00

Percentage of Wastewater Flow Served by FTW	
2020	100%
2030	100%
2040	100%

16. Existing number of

wastewater customers SERVED by Fort Worth

(Residential:____, Non-Residential:____)

17. Will your service area boundaries be expanded in the next 20 years?

18. Existing number of residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.

19. Existing number of non-residential water meters (5/8", 3/4", 1", 1-1/2", 2", 3", 4", 6", 8", 10") – Skip if you provided information in the previous section.



**WHOLESALE CUSTOMER SURVEY
WATER/WASTEWATER SERVICE PROJECTIONS
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Residential Meters	
Meter Size	Quantity
5/8"	5,156
3/4"	
1"	
1-1/2"	
2"	
3"	
4"	
6"	
8"	
10"	

Non-Residential Meters	
Meter Size	Quantity
5/8"	236
3/4"	
1"	74
1-1/2"	46
2"	113
3"	13
4"	4
6"	1
8"	
10"	

20. Are there any current ordinances concerning wastewater impact fees within your utility?

Appendix B

Population and Employment Projections

Appendix B
Wastewater Wholesale Customer Population and Employment Projections
City of Fort Worth

Wholesale Customer	Population			Employment			Portion Served by Fort Worth			Served Population			Served Employment		
	2022	2031	2041	2022	2031	2041	2022	2031	2041	2022	2031	2041	2022	2031	2041
Benbrook Water Authority	24,204	29,494	35,393	6,462	7,562	8,661	100%	100%	100%	24,204	29,494	35,393	6,462	7,562	8,661
Bethesda Water Supply Corp.	32,515	35,810	39,367	0	0	0	4%	4%	4%	1,301	1,432	1,575	0	0	0
Blue Mound	2,700	2,700	2,700	756	881	1,010	100%	100%	100%	2,700	2,700	2,700	756	881	1,010
Burleson	55,575	84,095	114,827	24,046	27,500	31,500	100%	100%	100%	55,575	84,095	114,827	24,046	27,500	31,500
Crowley	19,442	27,000	37,000	3,253	4,098	5,052	100%	100%	100%	19,442	27,000	37,000	3,253	4,098	5,052
Edgecliff Village	3,244	3,260	3,260	1,659	1,830	1,932	100%	100%	100%	3,244	3,260	3,260	1,659	1,830	1,932
Everman	6,700	7,600	8,100	1,667	1,738	1,807	100%	100%	100%	6,700	7,600	8,100	1,667	1,738	1,807
Forest Hill	13,110	13,160	13,210	9,622	9,751	9,946	100%	100%	100%	13,110	13,160	13,210	9,622	9,751	9,946
Haltom City	44,800	50,000	50,000	21,940	24,500	24,500	100%	100%	100%	44,800	50,000	50,000	21,940	24,500	24,500
Hurst	38,735	39,873	41,053	27,541	31,276	33,351	92%	92%	92%	35,636	36,683	37,769	25,338	28,774	30,683
Kennedale	8,300	11,709	16,152	4,866	6,115	7,370	4%	4%	4%	332	468	646	195	245	295
Lake Worth	5,132	5,958	6,595	3,265	3,793	3,864	100%	100%	100%	5,132	5,958	6,595	3,265	3,793	3,864
North Richland Hills	73,400	80,800	89,800	24,419	26,745	29,269	80%	80%	80%	58,720	64,640	71,840	19,535	21,396	23,415
Pantego ¹	2,425	2,475	2,525	1,874	2,112	2,339	75%	75%	75%	1,819	1,856	1,894	1,406	1,584	1,754
Richland Hills	8,300	8,300	8,300	9,048	9,610	10,187	100%	100%	100%	8,300	8,300	8,300	9,048	9,610	10,187
River Oaks	7,710	8,162	8,210	7,800	8,200	8,200	100%	100%	100%	7,710	8,162	8,210	7,800	8,200	8,200
Saginaw	24,225	30,091	33,727	12,351	15,736	18,441	100%	100%	100%	24,225	30,091	33,727	12,351	15,736	18,441
Sansom Park	5,629	5,905	6,207	1,155	1,236	1,323	100%	100%	100%	5,629	5,905	6,207	1,155	1,236	1,323
Trinity River Authority	0	0	0	0	0	0	0%	0%	0%	0	0	0	0	0	0
Watauga	25,312	27,431	27,652	4,395	4,858	4,958	100%	100%	100%	25,312	27,431	27,652	4,395	4,858	4,958
Westover Hills	682	682	682	576	576	576	100%	100%	100%	682	682	682	576	576	576
Westworth Village ¹	3,169	3,226	3,284	1,702	1,795	1,880	100%	100%	100%	3,169	3,226	3,284	1,702	1,795	1,880
White Settlement ¹	17,102	17,524	17,532	8,464	9,637	10,532	100%	100%	100%	17,102	17,524	17,532	8,464	9,637	10,532
TOTAL	422,411	495,255	565,576	176,861	199,549	216,698	--	--	--	364,844	429,667	490,403	164,635	185,300	200,516

¹Survey not received, data taken from the 2016 Impact Fee Update

FREESE AND NICHOLS, INC.
801 CHERRY STREET, SUITE 2800
FORT WORTH, TEXAS 76102
817-735-7300

www.freese.com