

Appendix A

Wastewater Wholesale Customer Surveys



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	5,120	
3/4"	48	
1"	2,545	
1-1/2"	8	
2"	11	
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	164	
3/4"	7	
1"	221	
1-1/2"	48	
2"	170	
3"	37	
4"	1	
6"	1	
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	560,429,941	
3/4"	7,275,355	
1"	434,930,300	
1-1/2"	4,821,832	
2"	8,327,409	
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	11,938,612	
3/4"	900,136	
1"	48,685,951	
1-1/2"	32,084,338	
2"	188,090,450	
3"	37,411,146	
4"	166,056	
6"	2,054,756	
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer Bethesda Water Supply Corporation

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	_*	
NCTCOG Estimate	_*	
Freese and Nichols, Inc. Adjusted Value	_*	

*2012 Impact Fee Survey

Population Projections	
2012	29,709
2013	30,363
2023	37,744
2033	46,920

*2012 Impact Fee Survey

Population Projections	
2016	31,682
2017	32,126
2027	36,624
2037	41,751

Employment Projections	
2012	N/A
2013	
2023	
2033	

*2012 Impact Fee Survey

Employment Projections	
2016	N/A
2017	0
2027	0
2037	0

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	-	%	2016	-	%
2013*	-	%	2017	-	% 4
2023*	-	%	2027	-	% 4
2033*	-	%	2037	-	% 4

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>257</u>	Residential*	<u>357</u>	Residential
<u>0</u>	Non-Residential*	<u>0</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity	Quantity
5/8"	256	356
3/4"	0	0
1"	1	1
1-1/2"	0	0
2"	0	0
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

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

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)	Annual Residential Consumption (gallons)
5/8"	22,213,100	20,768,620
3/4"	0	0
1"	758,100	3,682,000
1-1/2"	0	0
2"	0	0
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)	Annual Non-Residential Consumption (gallons)
5/8"	0	0
3/4"	0	0
1"	0	0
1-1/2"	0	0
2"	0	0
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

N/A



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Blue Mound

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	2,396*	
NCTCOG Estimate	2,396*	
Freese and Nichols, Inc. Adjusted Value	2,400*	

*2012 Impact Fee Survey

Population Projections*	
2012	2,396
2013	2,400
2023	2,400
2033	2,400

*2012 Impact Fee Survey

Population Projections	
2016	2,400
2017	2,400
2027	2,400
2037	2,400

Employment Projections*	
2012	0
2013	4
2023	5
2033	6

*2012 Impact Fee Survey

Employment Projections	
2016	1
2017	1
2027	0
2037	0

695
817
946

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>800</u>	Residential*	<u>777</u>	Residential
<u>21</u>	Non-Residential*	<u>30</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	800	777
3/4"		
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	2	2
3/4"	10	10
1"	1	1
1-1/2"	1	1
2"	1	1
3"	1	
4"	0	
6"	0	
8"	0	
10"	0	

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	42,000,000	46,620,000
3/4"		
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	120,000	120,000
3/4"	600,000	600,000
1"	60,000	228,000
1-1/2"	60,000	288,000
2"	60,000	204,000
3"	60,000	0
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

yes



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Burleson

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

*	
*	
X*	

*2012 Impact Fee Survey

Population Projections*	
2012	39,034
2013	39,977
2023	54,875
2033	65,628

*2012 Impact Fee Survey

Population Projections	
2016	
2017	43,622
2027	60,348
2037	88,157

Employment Projections*	
2012	17,868
2013	18,430
2023	25,514
2033	32,963

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	21,264
2027	28,494
2037	35,943

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100%</u>	%
2013*	<u>100</u>	%	2017	<u>100%</u>	%
2023*	<u>100</u>	%	2027	<u>100%</u>	%
2033*	<u>100</u>	%	2037	<u>100%</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

12,118 Residential* 12,821 Residential
753 Non-Residential* 789 Non-Residential

*2012 Impact Fee Survey

Bracket

4 Will your service area boundaries be expanding?

YES	X*	
NO	*	<i>[initials]</i>

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	11,846	12,978
3/4"	3	2
1"	45	27
1-1/2"	6	3
2"	4	3
3"		0
4"		0
6"		0
8"		0
10"		0

Brand:

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	468	391
3/4"	4	0
1"	193	129
1-1/2"	117	94
2"	233	191
3"	65 (40 fire hydrant)	20
4"	6	3
6"	1	1
8"		0
10"		0

Brand:

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	61,159	55,400
3/4"	49,167	82,200
1"	29,604	58,600
1-1/2"	36,850	80,400
2"	33,500	67,800
3"		N/A
4"		
6"		
8"		
10"		

Brand:

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	82,339	63,600
3/4"		N/A
1"	126,659	170,500
1-1/2"	397,099	473,600
2"	464,252	610,600
3"	408,288	1,365,100
4"	296,352	499,700
6"	1,173,470	1,632,700
8"		N/A
10"		N/A

Brand

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

Yes



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Crowley

Note: The information provided will be used to project the Land Use Assumptions for the 2016-2026 Fort Worth Impact fees unless otherwise directed. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	13,504 (est).*	
Estimated NCTCOG	*	
Freese and Nichols, Inc. Adjusted Value	*	

*2012 Impact Fee Survey

Population Projections*	
2012	13,504
2013	13,910
2023	14,327
2033	14,757

*2012 Impact Fee Survey

Population Projections	
2016	14,770
2017	14,770
2027	15,180
2037	16,240

Employment Projections*	
2012	-
2013	-
2023	-
2033	-

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	2,862
2027	3,621
2037	4,575

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>4,741</u>	Residential*	<u>5209</u>	Residential
<u>229</u>	Non-Residential*	<u>324</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	4,806	5168
3/4"		
1"	22	28
1-1/2"		3
2"		7
3"		2
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	175	171
3/4"		
1"	59	63
1-1/2"	19	22
2"	58	58
3"	12	9
4"	1	1
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	-	385,898,000
3/4"	-	
1"	-	2,338,776
1-1/2"	-	779,592
2"	-	389,796
3"	-	389,796
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	-	47,945,000
3/4"	-	
1"	-	17,188,000
1-1/2"	-	7,237,000
2"	-	16,283,000
3"	-	1,791,000
4"	-	18,000
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Everman

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

5850*	
6100*	
*	

*2012 Impact Fee Survey

Population Projections*	
2012	-
2013	-
2023	-
2033	-

*2012 Impact Fee Survey

Population Projections	
2016	
2017	5,950
2027	6,100
2037	6,100

Employment Projections*	
2012	49
2013	49
2023	50
2033	50

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	1,631
2027	1,703
2037	1,772

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

1763 Residential* Residential
142 Non-Residential* Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	1,763	
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	106	
1"	14	
1-1/2"		
2"	16	
3"	3	
4"	3	
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"		
3/4"	100,067,003	
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"		
3/4"	20,579,000	
1"	2,721,600	
1-1/2"		
2"	3,110,400	
3"	610,200	
4"	583,800	
6"		
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Forest Hill

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

X*	
*	
*	

*2012 Impact Fee Survey

Population Projections*	
2012	12,800
2013	13,000
2023	13,400
2033	13,800

*2012 Impact Fee Survey

Population Projections	
2016	13,000
2017	13,200
2027	13,788
2037	14,800

Employment Projections*	
2012	4,755
2013	4,810
2023	5,360
2033	5,910

*2012 Impact Fee Survey

Employment Projections	
2016	4,900
2017	5,000
2027	5,500
2037	6,175

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>4421</u>	Residential*	<u>4774</u>	Residential
<u>143</u>	Non-Residential*	<u>322</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	x

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	4,421	4774
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"		
1"	63	64
1-1/2"	25	30
2"	50	50
3"		
4"	2	2
6"	3	1
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	-	
3/4"	-	291,506,000
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	-	
3/4"	-	
1"	-	11,480,000
1-1/2"	-	11,006,000
2"	-	30,908,000
3"	-	
4"	-	5,084,000
6"	-	3,248,000
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Hurst

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

37,360*	
*	38,340
*	

*2012 Impact Fee Survey

Population Projections*	
2012	37,360
2013	37,360
2023	42,930
2033	48,500

*2012 Impact Fee Survey

Population Projections	
2016	38,500
2017	39,000
2027	40,000
2037	41,000

Employment Projections*	
2012	19,958
2013	19,958
2023	24,229
2033	28,500

*2012 Impact Fee Survey

Employment Projections	
2016	20,200
2017	20,400
2027	28,550
2037	36,700

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>92</u>	%	2016	<u>92</u>	%
2013*	<u>92</u>	%	2017	<u>92</u>	%
2023*	<u>92</u>	%	2027	<u>92</u>	%
2033*	<u>92</u>	%	2037	<u>92</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>10,760</u>	Residential*	<u>10,971</u>	Residential
<u>1,240</u>	Non-Residential*	<u>1,256</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	10,073	9,620
3/4"		1
1"	728	1,349
1-1/2"	46	44
2"	8	9
3"	0	0
4"	8	8
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	429	444
3/4"		1
1"	331	361
1-1/2"	204	221
2"	291	192
3"	34	32
4"	24	16
6"	8	1
8"	0	0
10"	0	0

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	1,164,884,000	875,764,000
3/4"		327,000
1"	97,677,000	98,631,000
1-1/2"	8,825,000	7,104,000
2"	3,965,000	3,558,000
3"	0	0
4"	1,101,000	881,000
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	93,419,000	49,543,000
3/4"		7,000
1"	87,216,000	91,930,000
1-1/2"	124,103,000	104,806,000
2"	340,035,000	295,694,000
3"	66,700,000	65,371,000
4"	73,765,000	78,131,000
6"	838,000	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

City of Hurst1

Usage Report - Usage by Meter Type

Date : 3/15/2016 10:54:11 AM

User Name : sunil11

Commercial (Non-Residential)

Model	Group	Counts		Usage
		Reading	Service	
Multi Meter	SEWER	96	8	15232
1 B 003	SERVICE	24	2	59
1 B 004	SERVICE	1283	117	18073
1 B 005	SERVICE	301	28	5864
1 B 006	SERVICE	12	1	32
1 N 004	SERVICE	578	50	4748
1 N 005	SERVICE	489	44	11006
1 N 006	SERVICE	44	4	110
1 R 003	SERVICE	1	1	0
1 R 004	SERVICE	570	51	10383
1 R 005	SERVICE	324	27	5832
1 R 006	SERVICE	72	6	2130
1 S 003	SERVICE	36	3	89
1 S 004	SERVICE	327	28	6733
1 S 005	SERVICE	144	12	5754
1 S 006	SERVICE	120	10	5885
1.5 B 004	SERVICE	48	4	315
1.5 B 005	SERVICE	278	27	9063
1.5 N 004	SERVICE	48	4	604
1.5 N 005	SERVICE	509	44	14846
1.5 N 006	SERVICE	60	5	2235
1.5 R 004	SERVICE	38	4	1047
1.5 R 005	SERVICE	592	50	18678
1.5 R 006	SERVICE	132	11	5649
1.5 S 004	SERVICE	60	5	965
1.5 S 005	SERVICE	561	48	27566
1.5 S 006	SERVICE	108	9	3912
1.5 O 005	SERVICE	29	3	300
1.5' O T2 005	SERVICE	348	33	19626
2 B 004	SERVICE	39	4	445
2 B 005	SERVICE	505	47	29784
2 B 006	SERVICE	36	3	14649
2 N 004	SERVICE	24	2	29
2 N 005	SERVICE	477	41	22545
2 N 006	SERVICE	36	3	8309
2 O T2 005	SERVICE	85	8	8637
2 R 004	SERVICE	23	2	403
2 R 005	SERVICE	306	26	18045
2 R 006	SERVICE	36	3	8624
2 S 004	SERVICE	12	1	681
2 S 005	SERVICE	965	82	147755
2 S 006	SERVICE	154	13	34622
2.5 R 005	SERVICE	12	1	238
2.5 S 005	SERVICE	24	2	928
3 B 005	SERVICE	42	4	9980
3 N 005	SERVICE	48	4	1733
3 R 005	SERVICE	36	3	3565
3 R 006	SERVICE	24	2	2351
3 S 005	SERVICE	133	12	38488
3 S 006	SERVICE	36	3	5474
3" O T2 005	SERVICE	24	2	3780
3/4 True B 004	SERVICE	12	1	7
4 B 006	SERVICE	24	2	5200
4 B 007	SERVICE	30	3	34700
4 N 005	SERVICE	33	3	9502
4 N 006	SERVICE	12	1	2258

Included

City of Hurst1
Usage Report - Usage by Meter Type

Date : 3/15/2016 10:54:11 AM

User Name : sunil11

Non Residential

Model	Group	Counts		Usage
		Reading	Service	
4 R 005	SERVICE	24	2	5236
4 R 006	SERVICE	12	1	476
4 S 006	SERVICE	60	5	20759
5/8 B 003	SERVICE	372	32	809
5/8 B 004	SERVICE	4095	364	23258
5/8 B 005	SERVICE	394	40	6911
5/8 B 006	SERVICE	60	5	492
5/8 N 005	SERVICE	72	6	2755
5/8 R 003	SERVICE	36	3	103
5/8 R 004	SERVICE	24	2	27
5/8 R 005	SERVICE	36	3	541
5/8 S 004	SERVICE	36	3	281
5/8 S 005	SERVICE	84	7	9340
5/8 S 008	SERVICE	6	1	5026
6 R 005	SERVICE	12	1	0
Grand Total :		15743	1392	685482

City of Hurst1

Usage Report - Usage by Meter Type

Date : 3/15/2016 10:43:39 AM

User Name : sunil11

Residential

Model	Group	Counts		Usage
		Reading	Service	
1 B 004	SERVICE	10222	1203	85620
1 B 005	SERVICE	197	17	1629
1 C 004	SERVICE	12	1	8
1 N 004	SERVICE	192	16	2085
1 N 005	SERVICE	72	6	1392
1 R 004	SERVICE	351	32	2835
1 R 005	SERVICE	96	8	1849
1 R 006	SERVICE	12	1	119
1 S 004	SERVICE	187	17	2842
1 S 005	SERVICE	28	3	109
1 S 006	SERVICE	24	2	143
1.5 B 004	SERVICE	276	23	2356
1.5 B 005	SERVICE	60	5	606
1.5 N 005	SERVICE	36	3	141
1.5 N 006	SERVICE	10	1	80
1.5 R 005	SERVICE	83	8	1245
1.5 S 004	SERVICE	12	1	136
1.5 S 005	SERVICE	48	4	663
1.5 S 006	SERVICE	12	1	264
1.5' O T2 005	SERVICE	36	3	1613
2 B 004	SERVICE	12	1	97
2 B 005	SERVICE	12	1	1664
2 N 005	SERVICE	36	3	1438
2 R 005	SERVICE	36	3	205
2 S 005	SERVICE	12	1	154
3/4 True B 004	SERVICE	12	1	327
4 N 005	SERVICE	12	1	154
5 B 004	SERVICE	54	6	727
5/8 B 003	SERVICE	43	4	148
5/8 B 004	SERVICE	103125	9253	788256
5/8 B 005	SERVICE	8476	921	83391
5/8 B 006	SERVICE	74	7	574
5/8 C 004	SERVICE	24	2	221
5/8 H 004	SERVICE	24	2	399
5/8 N 004	SERVICE	174	15	1425
5/8 N 005	SERVICE	12	1	215
5/8 R 003	SERVICE	12	1	71
5/8 R 004	SERVICE	105	10	837
5/8 R 005	SERVICE	12	1	143
5/8 S 004	SERVICE	12	1	84
Grand Total :		124245	11590	986265

(Combined Residential/Non-Residential)
1,671,747,000 (Excludes hydrant flow, water loss, unmetered use)

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>
Residential			
RESIDENTIAL	1 B 004	1"	1,299
RESIDENTIAL	1 B 005	1"	16
RESIDENTIAL	1 C 004	1"	1
RESIDENTIAL	1 N 004	1"	16
RESIDENTIAL	1 N 005	1"	6
RESIDENTIAL	1 R 004	1"	30
RESIDENTIAL	1 R 005	1"	8
RESIDENTIAL	1 R 006	1"	1
RESIDENTIAL	1 S 004	1"	16
RESIDENTIAL	1 S 005	1"	4
RESIDENTIAL	1 S 006	1"	2
RESIDENTIAL	1.5 B 004	1.5"	23
RESIDENTIAL	1.5 B 005	1.5"	5
RESIDENTIAL	1.5 N 005	1.5"	2
RESIDENTIAL	1.5 N 006	1.5"	1
RESIDENTIAL	1.5 R 005	1.5"	7
RESIDENTIAL	1.5 S 004	1.5"	1
RESIDENTIAL	1.5 S 005	1.5"	3
RESIDENTIAL	1.5 S 006	1.5"	1

2 1,399 1" meters

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>	
RESIDENTIAL	1.5' O T2 005	1.5"	1	44 1.5" meters
RESIDENTIAL	2 B 004	2"	1	
RESIDENTIAL	2 B 005	2"	1	
RESIDENTIAL	2 N 005	2"	2	
RESIDENTIAL	2 R 005	2"	3	
RESIDENTIAL	2 S 005	2"	1	9 2" meters
RESIDENTIAL	3/4 True B 004	3/4"	1	1 ea 3/4"
RESIDENTIAL	4 N 005	4"	1	1 ea 4"
RESIDENTIAL	5 B 004	5"	7	7 ea 8 total
RESIDENTIAL	5/8 B 003	5/8"	5	
RESIDENTIAL	5/8 B 004	5/8"	8,496	
RESIDENTIAL	5/8 B 005	5/8"	941	
RESIDENTIAL	5/8 B 006	5/8"	7	
RESIDENTIAL	5/8 C 004	5/8"	2	
RESIDENTIAL	5/8 H 004	5/8"	2	
RESIDENTIAL	5/8 N 004	5/8"	14	
RESIDENTIAL	5/8 N 005	5/8"	1	
RESIDENTIAL	5/8 R 003	5/8"	1	
RESIDENTIAL	5/8 R 004	5/8"	7	
RESIDENTIAL	5/8 R 005	5/8"	1	

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>	
RESIDENTIAL	5/8 S 004	5/8"	1	
RESIDENTIAL	GM 3 1000	VARIOUS	142	7,620
Non-Residential				
COMMERCIAL	1 B 003	1"	2	
COMMERCIAL	1 B 004	1"	111	
AUTOMOTIVE	1 B 005	1"	28	
COMMERCIAL	1 B 006	1"	1	
CITY PROPERTY	1 N 004	1"	38	
RESTAURANT	1 N 005	1"	40	
CITY PROPERTY	1 N 006	1"	4	
COMMERCIAL	1 R 003	1"	1	
COMMERCIAL	1 R 004	1"	50	
CONVENIENCE STORE	1 R 005	1"	31	
SCHOOL	1 R 006	1"	6	
COMMERCIAL	1 S 003	1"	3	
COMMERCIAL	1 S 004	1"	26	
COMMERCIAL	1 S 005	1"	11	
CITY PROPERTY	1 S 006	1"	9	361 ea
COMMERCIAL	1.5 B 004	1.5"	4	
COMMERCIAL	1.5 B 005	1.5"	29	
COMMERCIAL	1.5 N 004	1.5"	4	

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>
COMMERCIAL	1.5 N 005	1.5"	41
SCHOOL	1.5 N 006	1.5"	4
COMMERCIAL	1.5 R 004	1.5"	3
COMMERCIAL	1.5 R 005	1.5"	44
APARTMENT	1.5 R 006	1.5"	10
RESTAURANT	1.5 S 004	1.5"	4
CITY PROPERTY	1.5 S 005	1.5"	37
CITY PROPERTY	1.5 S 006	1.5"	5
CITY PROPERTY	1.5 O 005	1.5"	3
COMMERCIAL	1.5' O T2 005	1.5"	33
CHURCH	2 B 004	2"	4
COMMERCIAL	2 B 005	2"	31
APARTMENT	2 B 006	2"	5
COMMERCIAL	2 N 004	2"	2
CHURCH	2 N 005	2"	33
CHURCH	2 N 006	2"	3
APARTMENT	2 O T2 005	2"	10
COMMERCIAL	2 R 004	2"	2
COMMERCIAL	2 R 005	2"	28
APARTMENT	2 R 006	2"	3

221 each

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>
GROCERS	2 S 004	2"	1
AUTOMOTIVE	2 S 005	2"	57
CITY PROPERTY	2 S 006	2"	10
CHURCH	2.5 R 005	2.5"	1
CHURCH	2.5 S 005	2.5"	2
APARTMENT	3 B 005	3"	5
SCHOOL	3 N 005	3"	4
COMMERCIAL	3 N 006	3"	1
CITY PROPERTY	3 R 005	3"	4
CITY PROPERTY	3 R 006	3"	2
COMMERCIAL	3 S 005	3"	11
COMMERCIAL	3 S 006	3"	3
COMMERCIAL	3" O T2 005	3"	2
COMMERCIAL	3/4 True B 004	3/4"	1
CITY PROPERTY	4 B 006	4"	2
CITY PROPERTY	4 B 007	4"	2
HOTEL	4 N 005	4"	3
COMMERCIAL	4 N 006	4"	1
HEALTH CARE	4 R 005	4"	2
COMMERCIAL	4 R 006	4"	1
SCHOOL	4 S 006	4"	5

189
+ 3

192

32 each
1 each

16 each

	<u>MeterModel</u>	<u>MeterSize</u>	<u>Count</u>
COMMERCIAL	5/8 B 003	5/8"	31
COMMERCIAL	5/8 B 004	5/8"	328
COMMERCIAL	5/8 B 005	5/8"	37
CHURCH	5/8 B 006	5/8"	7
COMMERCIAL	5/8 N 005	5/8"	6
COMMERCIAL	5/8 R 003	5/8"	3
AUTOMOTIVE	5/8 R 004	5/8"	2
COMMERCIAL	5/8 R 005	5/8"	5
APARTMENT	5/8 R 006	5/8"	2
AUTOMOTIVE	5/8 S 004	5/8"	3
HEALTH CARE	5/8 S 005	5/8"	7
COMMERCIAL	6 R 005	6"	1
COMMERCIAL	GM 3 1000	VARIOUS	13

Handwritten notes:
A bracket groups the counts for MeterModel 5/8 S 005 (7), 6 R 005 (1), and GM 3 1000 (13). The text "444 total" is written next to the bracket. An arrow points from the text "1 total" to the circled count of 1 for MeterModel 6 R 005.



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



Wholesale Customer City of Kennedale

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

*	
X*	
*	

*2012 Impact Fee Survey

Population Projections*	
2012	6,790
2013	6,804
2023	?
2033	?

*2012 Impact Fee Survey

Population Projections	
2016	8000
2017	8000
2027	
2037	

8,786
14,042
22,441

Employment Projections*	
2012	71
2013	71
2023	?
2033	

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	4,744
2027	6,977
2037	9,210

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>1.5</u>	%	2016	<u>3</u>	%
2013*	<u>1.5</u>	%	2017	<u>3.5</u>	%
2023*	<u> </u>	%	2027	<u>3.5</u>	%
2033*	<u> </u>	%	2037	<u>3.5</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u> </u>	2017	Residential*	<u>2434</u>	Residential
<u>194</u>		Non-Residential*	<u>248</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	X*	X
NO	*	

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	2,638	2220
3/4"	0	0
1"	195	192
1-1/2"	7	7
2"	7	6
3"		1
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	271	227
3/4"	0	0
1"	39	43
1-1/2"	10	15
2"	34	36
3"	23	8
4"	3	3
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	25,539,200,000	218605550
3/4"	0	0
1"	5,264,110,000	41351652
1-1/2"	261,020,000	2430852
2"	3,968,200	5639771
3"		1674298
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	17,075,900	16450971
3/4"	0	0
1"	9,011,800	10892677
1-1/2"	403,300	2491377
2"	21,601,700	16711526
3"	20,826,500	776456
4"	8,048,600	3367576
6"		
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 February 2016



Wholesale Customer Lake Worth

Note: The information provided will be used to project the Land Use Assumptions for the 2016-2026 Fort Worth Impact fees unless otherwise directed. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (February 2016)
 NCTCOG – Forecast Districts
 Freese and Nichols, Inc. Adjusted Value

Population Projections	
2016	4,727
2017	5,186
2027	5,831
2037	6,468

Employment Projections	
2016	2700
2017	2720
2027	3137
2037	3779

2 The Percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2016	<u>100</u>	%
2017	<u>100</u>	%
2027	<u>100</u>	%
2037	<u>100</u>	%

3 Existing Number of wastewater customers:

1825 Residential 434 Non-Residential

4 Will your service area boundaries be expanding?

YES
 NO

5 Existing Number of residential water meters:

Meter Size	Quantity
5/8"	1
3/4"	1679
1"	144
1-1/2"	0
2"	1
3"	0
4"	0
6"	0
8"	0
10"	0



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 February 2016



6 Existing Number of non-Residential water meters:

Meter Size	Quantity
5/8"	- 0 -
3/4"	133
1"	122
1-1/2"	43
2"	106
3"	25
4"	5
6"	- 0 -
8"	- 0 -
10"	- 0 -

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)
5/8"	- 0 -
3/4"	112,333,000
1"	14,426,000
1-1/2"	- 0 -
2"	171,000
3"	- 0 -
4"	- 0 -
6"	- 0 -
8"	- 0 -
10"	- 0 -

8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)
5/8"	- 0 -
3/4"	9,412,000
1"	19,904,000
1-1/2"	23,964,000
2"	67,825,000
3"	5,586,000
4"	4,153,000
6"	- 0 -
8"	- 0 -
10"	- 0 -



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
February 2016



- 9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

See Attached

- CHAPTER 11 TAXATION ▲
- CHAPTER 12 TRAFFIC AND VEHICLES
- CHAPTER 13 UTILITIES
- ARTICLE 13.100 WATER SERVICE
- ARTICLE 13.200 WATER WELLS*
- ARTICLE 13.300 SEWER SERVICE
 - Sec. 13.301 Definitions
 - Sec. 13.302 Permits and Connection
 - Sec. 13.303 Tap Fees
 - Sec. 13.304 Sewer Service Charges
 - Sec. 13.305 When Sewer Bills are D
 - Sec. 13.306 Sand and Grease Traps
 - Sec. 13.307 Mandatory Connection I
 - Sec. 13.308 Certain Acts Unlawful
 - Sec. 13.309 Responsibility for Injurie
 - Sec. 13.310 Septic Tanks, Privies, E
 - Sec. 13.311 Not to Deposit Garbage
 - Sec. 13.312 Not to Injure Sewer Sys
 - Sec. 13.313 Notice for Opening Stre
 - Sec. 13.314 Barriers and Lights to br
 - Sec. 13.315 Connection of Buildings
 - Sec. 13.316 Approval of Connections
 - Sec. 13.317 Connections to Comply
 - Sec. 13.318 Basement Drains
 - Sec. 13.319 Certain Pipes Prohibited
 - Sec. 13.320 Pipe Materials
 - Sec. 13.321 Fall Requirement
 - Sec. 13.322 Entrance onto Premises
 - Sec. 13.323 Improvements and Exte
 - Sec. 13.324 Injunctions: Civil Remed
- ARTICLE 13.400 WATER AND WASTEVE
- ARTICLE 13.500 SEPTIC TANKS
- ARTICLE 13.600 INDUSTRIAL WASTE
- ARTICLE 13.700 TRENCH EXCAVATIO
- ARTICLE 13.800 WATER AND SEWER
- ARTICLE 13.900 RESERVED*
- ARTICLE 13.1000 BACKFLOW PREVENT

Sec. 13.402 Payment Required

(a) No person, firm, corporation or other entity shall be entitled to initial water or wastewater service until payment of the system facility access fee as set forth in [Section 13.403](#) hereof. Payment of the system facility access fee is required as a condition of establishing initial water or wastewater service. All other conditions for initiating service, such as deposit requirement agreements, and service charges as covered elsewhere in this code and are in addition to the system facility access fee.

(b) Prior to the initial connection of any building, structure, premises, or lot after the effective date of this article to a wastewater system, the owner of that building, structure, premises or lot shall pay the system facility access fee as established by such fee to be paid in cash prior to the issuance of the building permit.

(Ordinance 987, sec. 3, adopted 8/14/12)

Sec. 13.403 System Facility Access Fee

The system facility access fees are those imposed upon the city by the City of Fort Worth for providing water or wastewater service to development contained within the incorporated city limits and to which service is provided either directly or indirectly by the city's water and/or wastewater system(s). The system facility access fees for residential and other classes of customers shall be the same as the system facility access fees set and assessed by the City of Fort Worth. (Ordinance 987, sec. 4, adopted 8/14/12)

Sec. 13.404 Private and Public Facilities

(a) If any property within or outside the city's corporate limits utilizes a water well, a septic tank, or an individual wastewater treatment system, and the property owner requests to be connected to the city's water or wastewater system, the customer shall be assessed the system facility access fee before the property is connected to the city's water or wastewater system. Should the property owner request to be connected to the city's water or wastewater system while retaining a private water well, the appropriate fee to be assessed will be determined by the director.

(b) A system facility access fee will not be assessed to any property which is receiving service from a wastewater treatment system or public utility when such public utility is acquired by the city and connected into the city's wastewater system.

(Ordinance 987, sec. 5, adopted 8/14/12)

Sec. 13.405 Clarifications and Determinations

Where a question arises as to the classification of a customer's service class and/or the appropriate meter size, the director (or superintendent) shall make the determination in accordance with the existing city code as of the date the question arises. Any customer shall request in writing from the director (or superintendent) an interpretation or clarification of the basis upon which a system facility access fee is assessed. (1987 Code of Ordinances, Chapter 10, Section 4E)



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of North Richland Hills

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

*	
*	
*	

*2012 Impact Fee Survey

Population Projections*	
2012	63,780
2013	64,080
2023	73,703
2033	87,336

*2012 Impact Fee Survey

Population Projections	
2016	
2017	67,742
2027	74,621
2037	76,499

Employment Projections*	
2012	22
2013	22
2023	22
2033	22

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	27,791
2027	30,686
2037	32,920

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>84</u>	%	2016	<u> </u>	%
2013*	<u>84</u>	%	2017	<u>84</u>	%
2023*	<u>84</u>	%	2027	<u>84</u>	%
2033*	<u>84</u>	%	2037	<u>84</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

18,497 Residential* Residential
808 Non-Residential* Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	18,811	
1"	961	
1-1/2"	5	
2"	15	
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	669	
1"	342	
1-1/2"	79	
2"	729	
3"	30	
4"	19	
6"	4	
8"	2	
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	-	
3/4"	-	
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	-	
3/4"	-	
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Pantego

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	2600*	
Estimated NCTCOG	2394*	
Freese and Nichols, Inc. Adjusted Value	*	

*2012 Impact Fee Survey

2012	2,394
2013	2,410
2023	2,450
2033	2,505

*2012 Impact Fee Survey

2016	2395
2017	2400
2027	2456
2037	2500

2012	-
2013	-
2023	-
2033	-

*2012 Impact Fee Survey

2016		
2017	NA	1,752
2027		1,999
2037		2,226

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>75</u>	%	2016	<u>75</u>	%
2013*	<u>75</u>	%	2017	<u>75</u>	%
2023*	<u>75</u>	%	2027	<u>75</u>	%
2033*	<u>75</u>	%	2037	<u>75</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>850</u>	Residential*	<u>875</u>	Residential
<u>330</u>	Non-Residential*	<u>310</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

5/8"		
3/4"	649	650
1"	56	57
1-1/2"	5	5
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

5/8"		
3/4"	421	421
1"	14	15
1-1/2"	11	12
2"	18	18
3"	3	3
4"	2	2
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

5/8"	-	
3/4"	-	
1"	-	
1-1/2"	-	N/A
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Annual Non-Residential Consumption per meter, gallons:		
5/8"	-	
3/4"	-	
1"	-	
1-1/2"	-	N/A
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

City of Ft. Worth impact fees applied to any new services that sewer to Ft. Worth, i.e. new residential/commercial construction.



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Richland Hills

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)
 Estimated NCTCOG
 Freese and Nichols, Inc. Adjusted Value

-*	
-*	
-*	

*2012 Impact Fee Survey

Population Projections*	
2012	7,900
2013	8,300
2023	8,300
2033	8,300

*2012 Impact Fee Survey

Population Projections	
2016	
2017	
2027	
2037	

Employment Projections*	
2012	85
2013	85
2023	85
2033	85

*2012 Impact Fee Survey

Employment Projections	
2016	
2017	
2027	
2037	

8,772
9,322
9,898

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u> </u>	%
2013*	<u>100</u>	%	2017	<u> </u>	%
2023*	<u>100</u>	%	2027	<u> </u>	%
2033*	<u>100</u>	%	2037	<u> </u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>2743</u>	Residential*	<u> </u>	Residential
<u>249</u>	Non-Residential*	<u> </u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	XXX*	

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	2,780	
1"	82	
1-1/2"	18	
2"	16	
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	169	
1"	77	
1-1/2"	26	
2"	35	
3"	2	
4"	2	
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"		
3/4"	230,598,459	
1"	13,662,195	
1-1/2"	2,033,600	
2"	20,618,597	
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	-	
3/4"	-	
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 February 2016



Wholesale Customer City of River Oaks

Note: The information provided will be used to project the Land Use Assumptions for the 2016-2026 Fort Worth Impact fees unless otherwise directed. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (February 2016)
 NCTCOG – Forecast Districts
 Freese and Nichols, Inc. Adjusted Value

-*	
-*	
-*	

*2012 Impact Fee Survey

Population Projections*	
2012	7,427
2013	7,619
2023	8,152
2033	8,200

*2012 Impact Fee Survey

Population Projections	
2016	7,619
2017	7,700
2027	8,200
2037	8,200

Employment Projections*	
2012	3,292
2013	3,300
2023	3,700
2033	3,900

*2012 Impact Fee Survey

Employment Projections	
2016	3,400
2017	3,400
2027	3,800
2037	4,000

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>2610</u>	Residential*	<u>2638</u>	Residential
<u>193</u>	Non-Residential*	<u>188</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	X

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 February 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	2,550	2,562
3/4"		15
1"	50	50
1-1/2"	9	9
2"	1	2
3"		0
4"		0
6"	0	0
8"		0
10"		0

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	128	121
3/4"		
1"	28	29
1-1/2"	18	18
2"	15	16
3"	1	1
4"	2	1
6"	1	2
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	194,820,000	157,875,209
3/4"		5,355,038
1"	7,900,000	1,484,962
1-1/2"	1,440,000	1,440,000
2"	197,000	4,849,068
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 February 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	21,460,000	17,274,635
3/4"		
1"	4,695,000	4,695,000
1-1/2"	3,600,000	3,600,000
2"	2,800,000	2,986,000
3"	195,000	195,000
4"	4,290,000	732,530
6"	560,000	1,072,000
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

Sec. 13.02.074 Impact fees

Wastewater impact fees occur when any customer has the necessity to have a new or additional sewer tap installed on their property. The charges for such impact fees are based in accordance with the rates established in the wastewater contract with the City of Fort Worth, as amended



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	6,685	6964
1"	7	9
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	165	167
1"	105	116
1-1/2"	12	12
2"	132	137
3"	16	16
4"	5	7
6"	1	1
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"		
3/4"	666,769,897	567,569,280
1"	2,864,000	1,267,000
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"		
3/4"	15,868,961	16,424,000
1"	31,482,000	33,448,000
1-1/2"	3,918,000	43,990,000
2"	97,036,927	102,585,000
3"	129,562,000	175,900,000
4"	8,434,000	8,260,000
6"	4,806,000	4,693,000
8"		
10"		

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

ORDINANCE 2011-21 AND AMENDING ORDINANCE 2011-22



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer Sansom Park

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	-*	
Estimated NCTCOG	-*	
Freese and Nichols, Inc. Adjusted Value	-*	

*2012 Impact Fee Survey

Population Projections*	
2012	4,686
2013	4,710
2023	5,100
2033	5,600

*2012 Impact Fee Survey

Population Projections	
2016	4881
2017	4881
2027	6000
2037	6000

Employment Projections*	
2012	-
2013	-
2023	-
2033	-

*2012 Impact Fee Survey

Employment Projections	
2016	38
2017	38
2027	50
2037	50

1,115
1,192
1,280

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>1517</u>	Residential*	<u>1424</u>	Residential
<u>119</u>	Non-Residential*	<u>121</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	X*	

*2012 Survey

5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	1,517	1481
1"		
1-1/2"		
2"		
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"		
3/4"	113	115
1"	2	2
1-1/2"		
2"	4	4
3"		
4"		
6"		
8"		
10"		

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	-	
3/4"	-	3000
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	-	
3/4"	-	8000
1"	-	
1-1/2"	-	
2"	-	
3"	-	
4"	-	
6"	-	
8"	-	
10"	-	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

yes



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



Wholesale Customer City of Westover Hills

Note: The information provided will be used to update the Fort Worth Impact fees. Any questions, comments, or concerns should be directed to Jessica Brown, P.E., with Freese and Nichols, Inc. 817-735-7406.

1 Population Projections for the entire Wholesale Customer based on:

Wholesale Customer Survey (March 2016)	X*	
Estimated NCTCOG	*	
Freese and Nichols, Inc. Adjusted Value	*	

*2012 Impact Fee Survey

Population Projections*	
2012	688
2013	690
2023	710
2033	725

*2012 Impact Fee Survey

Population Projections	
2016	731
2017	735
2027	738
2037	740

Employment Projections*	
2012	NA
2013	NA
2023	NA
2033	NA

*2012 Impact Fee Survey

Employment Projections	
2016	NA
2017	NA
2027	NA
2037	NA

2 The percentage of your population's wastewater anticipated to be served by Fort Worth's Village Creek Wastewater Treatment Plant:

2012*	<u>100</u>	%	2016	<u>100</u>	%
2013*	<u>100</u>	%	2017	<u>100</u>	%
2023*	<u>100</u>	%	2027	<u>100</u>	%
2033*	<u>100</u>	%	2037	<u>100</u>	%

*From the 2012 Impact Fee Survey

3 Existing number of wastewater customers:

<u>191</u>	Residential*	<u>191</u>	Residential
<u>0</u>	Non-Residential*	<u>0</u>	Non-Residential

*2012 Impact Fee Survey

4 Will your service area boundaries be expanding?

YES	*	
NO	*	*

*2012 Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

Meter Size	Quantity*	Quantity
5/8"	0	0
3/4"	12	12
1"	94	93
1-1/2"	115	159
2"	91	46
3"	3	2
4"	0	1
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	0	0
3/4"	0	0
1"	0	0
1-1/2"	0	0
2"	0	0
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	0	0
3/4"	1,066,666	NA
1"	8,355,555	NA
1-1/2"	10,222,222	NA
2"	8,088,888	NA
3"	266,666	NA
4"	0	NA
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	0	0
3/4"	0	0
1"	0	0
1-1/2"	0	0
2"	0	0
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

 Yes, Ordinance 92-2



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
 March 2016



5 Existing Number of residential water meters:

*See pg 3
Re: IRR
meters*

Meter Size	Quantity*	Quantity
5/8"	0	2
3/4"	717	540
1"	1	6
1-1/2"	0	0
2"	1	3
3"	0	0
4"	0	0
6"	0	0
8"	0	0
10"	0	0

*- 56 Septic Systems
- 62 IRR meters*

*2012 Impact Fee Survey

6 Existing Number of non-Residential water meters:

Meter Size	Quantity*	Quantity
5/8"	0	0
3/4"	17	3
1"	9	15
1-1/2"	5	6
2"	12	18
3"	0	0
4"	1	2
6"	0	1
8"	1	6
10"	0	6

*See pg 3
Re: IRR meters*

*2012 Impact Fee Survey

7 Annual Residential Consumption per meter, gallons:

Meter Size	Annual Residential Consumption (gallons)*	Annual Residential Consumption (gallons)
5/8"	0	
3/4"	64,476,497	73,405,474
1"	167,332	787,472
1-1/2"	0	
2"	144,224	169,699
3"	0	
4"	762,041	
6"	0	
8"	183,273	
10"	0	

*2012 Impact Fee Survey



WHOLESALE CUSTOMER SURVEY
WASTEWATER SERVICE PROJECTIONS FOR IMPACT FEE STUDY
March 2016



8 Annual Non-Residential Consumption per meter, gallons:

Meter Size	Annual Non-Residential Consumption (gallons)*	Annual Non-Residential Consumption (gallons)
5/8"	0	
3/4"	761,779	795,992
1"	4,193,826	4,334,159
1-1/2"	1,654,481	1,111,229
2"	21,883,901	30,278,928
3"	0	
4"	762,041	2,489,105
6"	0	271,748
8"	183,273	26,180
10"	0	

*2012 Impact Fee Survey

9 Are there any current ordinances concerning water and wastewater impact fees within your utility?

SCHEDULE 2

ASSESSED IMPACT FEE FOR WATER AND WASTEWATER SCHEDULE

(EFFECTIVE JANUARY 1, 2013)

METER SIZE	EQUIVALENCY FACTOR	WATER IMPACT FEE*	WASTEWATER IMPACT FEE*	TOTAL IMPACT FEE*
5/8" x 5/8" and 5/8" x 3/4"	1.00	\$469	\$452	\$921
3/4" x 3/4"	1.50	\$704	\$678	\$1,382
1"	2.50	\$1,173	\$1,129	\$2,302
1-1/2"	5.00	\$2,345	\$2,258	\$4,603
2"	8.00	\$3,752	\$3,612	\$7,364
3"	21.75	\$10,201	\$9,820	\$20,021
4"	37.50	\$17,588	\$16,932	\$34,520
6"	80.00	\$37,520	\$36,120	\$73,640
8"	140.00	\$65,660	\$63,210	\$128,870
10"	210.00	\$98,490	\$94,815	\$193,305

* Referenced in 35-70.3(b), 35-73(b) and 35-78(b)

**Water and Wastewater Impact Fees are calculated at 50% of the total maximum assessable amount

Sec. 13.02.094 Connection and impact fees

The following charges shall be collected:

- (1) A connection fee shall be charged for connecting to the tap at the resident's property line. This charge shall be imposed for each separate tap to which a connection is made, including taps for irrigation.
- (2) An impact fee shall be assessed and charged for connecting to the tap at the resident's property line. This charge shall be imposed for each separate tap to which a connection is made, including taps for irrigation.
- (3) The current water and sewer connection fees are listed on the city fee schedule. The current impact fees are established by and forwarded to the water provider and are available by contacting the city utilities department.