

AGENDA MEMO
BUSINESS OF THE CITY COUNCIL
CITY OF FULSHEAR, TEXAS

AGENDA OF:	June 18 2019	AGENDA ITEM:	BUS- A
DATE SUBMITTED:	June 4, 2019	DEPARTMENT:	Planning and Development
PREPARED BY:	Sharon Valiante, Public Works Director, Zach Goodlander, Director of Development Services, Brant Gary, Assistant City Manager	PRESENTER:	Brant Gary, Assistant City Manager
SUBJECT:	Setting a date for a Public Hearing on Land Use Assumption and CIP		
ATTACHMENTS:	<ol style="list-style-type: none">1. Agenda Memo and Resolution for Land Use Assumptions2. Draft Land Use and CIP Report3. Impact Fee Schedule		

EXECUTIVE SUMMARY

To impose an impact fee, a political subdivision must adopt an order, ordinance, or resolution establishing a public hearing date to consider the land use assumptions and capital improvements plan for the designated service area. Kimley-Horn prepared a report summarizing the land use assumptions and capital improvement plan so Fulshear can begin the process of adopting water and wastewater impact fees. This upcoming public meeting allows the public to appear at the hearing and present evidence for or against the land use assumptions and capital improvements plan. The Capital Improvements Advisory Committee (CIAC) officially received the draft report on June 6. The report makes available to the public its land use assumptions, the time period of the projections, and a description of the capital improvement facilities that may be proposed. Copies of the report are provided to the CIAC, available from the City Secretary at City Hall, and included electronically for the public as an attachment to the meeting agenda.

RECOMMENDATION

Staff recommends the City Council set the public hearing for July 16.

Notes for Agenda Memo for June 18 City Council

Subjects: CONSIDERATION AND POSSIBLE ACTION TO APPROVE RESOLUTION NO. XXXX PROVIDING NOTICE OF PUBLIC HEARING ON LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN RELATING TO POSSIBLE ADOPTION OF IMPACT FEES FOR JULY 16 COUNCIL MEETING

Executive Summary:

To impose an impact fee, a political subdivision must adopt an order, ordinance, or resolution establishing a public hearing date to consider the land use assumptions and capital improvements plan for the designated service area. Kimley-Horn prepared a report summarizing the land use assumptions and capital improvement plan so Fulshear can begin the process of adopting water and wastewater impact fees. This upcoming public meeting allows the public to appear at the hearing and present evidence for or against the land use assumptions and capital improvements plan. The Capital Improvements Advisory Committee (CIAC) officially received the draft report on June 6. The report makes available to the public its land use assumptions, the time period of the projections, and a description of the capital improvement facilities that may be proposed. Copies of the report are provided to the CIAC, available from the City Secretary at City Hall, and included electronically for the public as an attachment to the meeting agenda.

Applicable Law:

Texas Local Government Code Chapter 395.044

Before the 30th day before the date of the hearing on the land use assumptions and capital improvements plan, the political subdivision shall send a notice of the hearing by certified mail to any person who has given written notice by certified or registered mail to the municipal secretary or other designated official of the political subdivision requesting notice of the hearing within two years preceding the date of adoption of the order, ordinance, or resolution setting the public hearing.

(b) The political subdivision shall publish notice of the hearing before the 30th day before the date set for the hearing, in one or more newspapers of general circulation in each county in which the political subdivision lies. However, a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may publish the required newspaper notice only in each county in which the service area lies.

(c) The notice must contain:

(1) a headline to read as follows:

"NOTICE OF PUBLIC HEARING ON LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN RELATING TO POSSIBLE ADOPTION OF IMPACT FEES"

(2) the time, date, and location of the hearing;

(3) a statement that the purpose of the hearing is to consider the land use assumptions and capital improvements plan under which an impact fee may be imposed; and

(4) a statement that any member of the public has the right to appear at the hearing and present evidence for or against the land use assumptions and capital improvements plan.

Recommendation:

Staff recommends the City Council set the public hearing for July 16.

CITY OF FULSHEAR, TEXAS

RESOLUTION NO. 2019- 421

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FULSHEAR, TEXAS, SETTING A DATE FOR A PUBLIC HEARING FOR THE PURPOSES OF RECEIVING COMMENTS ON THE DRAFT LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN FOR WATER AND WASTEWATER.

WHEREAS, Chapter 395 of the Local Government Code has outlined the procedure for amending impact fees; and

WHEREAS, it is desirable to amend water and wastewater impact fees to be charged in the City of Fulshear; and

WHEREAS, an engineering study has been completed on the proposed water and wastewater infrastructure to meet the needs of the City for future development.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FULSHEAR, TEXAS, THAT A PUBLIC HEARING SHALL BE HELD TO APPROVE AMENDMENTS TO CAPITAL IMPROVEMENTS PLANS, LAND USE ASSUMPTIONS, AND IMPACT FEES FOR WATER AND WASTEWATER, AS PROVIDED BY CHAPTER 395 OF THE TEXAS LOCAL GOVERNMENT CODE, TO BE HELD AS DESCRIBED BELOW:

SECTION 1. This public hearing will be held on **July 16, 2019 at 6:00 pm at the Irene Stern Community Center at 6920 Katy Fulshear Road Fulshear, TX 77441.**

SECTION 2. Any member of the public has the right to appear at the public hearing and present evidence for or against the plan and assumptions.

SECTION 3. A public notice shall be posted for the public hearing meeting all the requirements of Chapter 395 of the Texas Local Government Code for the amendment of impact fees.

PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FULSHEAR, TEXAS, this 18th day of JUNE, 2019.

Aaron Groff, Mayor
City of Fulshear, Texas

ATTEST:

Kimberly Kopecky, City Secretary



Land Use Assumptions and Capital Improvement Plan for Water and Wastewater Impact Fees



City of Fulshear, Texas
May 2019
067794900

Kimley-Horn and Associates, Inc.
TBPE Firm Registration: F928
11700 Katy Freeway, Suite 800
Houston, TX 77079

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Title

Site Name

Land Use Assumptions
and Capital Improvements
Plan
for
Water and Wastewater
Impact Fee Study
Fulshear, Texas

JUNE 2019
PROJECT NUMBER: 067779000

Prepared for:



Prepared by:

Kimley»»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
10700 KATY FREEWAY, SUITE 800
HOUSTON, TEXAS 77079
FIRM REGISTRATION NO. F-928

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SECTION 1: EXECUTIVE SUMMARY

The City of Fulshear, Texas is creating an Impact Fee program in accordance with Chapter 395 of the Texas Local Government Code. This document provides information about the assumptions for current and predicted land uses within the city. Also, it provides the ten-year capital improvements plan. Chapter 395 requires that cities provide this information for public review prior to authorizing an Impact Fee process.

1.1 LAND USE ASSUMPTIONS

Fulshear must describe the Land Use Assumptions which provide the basis for residential and employment growth projections within the political subdivision. As defined by Chapter 395, these assumptions include a description of changes in land uses, densities, and projected development in the service area. The land use assumptions then determine the need and timing of water and wastewater infrastructure improvements to serve future development. Section 395.0455 allows Fulshear to adopt systemwide land use assumptions which cover all the area subject to the jurisdiction of the political subdivision for the purpose of creating impact fees.

The PASA report focuses on projections the years from 2017 through 2027. This report shows how the PASA data was extrapolated to the impact fee timeframe. Table 1 summarizes the 10-year population projections.

Table 1: Ten Year Population Projection

<i>Year</i>	<i>City</i>	<i>ETJ</i>	<i>Total</i>
2019	14,141	18,271	32,412
2029	31,846	64,422	96,268
<i>10-Year Population Growth Projection</i>			Increase 63,856

The Fulshear Service Area is projected to experience a significant amount of residential and employment growth within the next ten years. This is consistent with the Future Land Use Plan in the Service Area.

1.2 WATER AND WASTEWATER CAPITAL IMPROVEMENT PLANS

In August 2018, Fulshear City Council adopted the Water and Wastewater Master Plans prepared by Freese and Nichols (FNI Master Plans). Improvements necessary to serve the 10-year (2019-

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2029) needs were evaluated based on the FNI master plans. Generally, the master plans recommended infrastructure improvements with capacity beyond the 10-year requirement; however, Chapter 395 only allows recovery of costs to serve the 10-year planning period. The projected total recoverable cost attributed to new growth to construct the infrastructure needed through 2029 are:

- Water: \$ 25,490,754
- Wastewater: \$ 40,756,519

The City opted not to perform a detailed financial analysis for distribution of the recoverable costs. Therefore, per Chapter 395.014, credit equal to 50 percent of the total projected cost of implementing the capital improvements plan will be applied. A portion of the remainder can be assessed as the planning window extends beyond 2029 and as the impact fees are updated in the future.

1.3 IMPACT FEE AUTHORIZATION PROCESS

Impact Fees are a mathematical calculation that determines a maximum fee equivalent for new development paying for growth. A successful impact fee program is designed so that it is predictable for both the development community and City. An impact fee program is equitable since similar developments pay a similar fee regardless if they are the first or last to develop. An impact fee program is transparent through the public process. An impact fee program is flexible in that funds can be used on priority projects and not just on project adjacent to a specific development. An impact fee program is consistent with other City goals and objectives for growth. For example, the actual collection rate set by Council may be determined to be less than the Maximum Roadway Impact Fee to achieve and be in alignment with other City goals and objectives for growth.

Chapter 395 of the Texas Local Government Code the generalized process for enacting Impact Fees including the following seven major steps:

- 1 Appoint Capital Improvement Advisory Committee (completed May 2019)
- 2 Publish Land Use Assumptions and Capital Improvement Plans (this report)
- 3 Hold Public Hearing on Land Use Assumptions and Capital Improvement Plans
- 4 Publish Impact Fee Study
- 5 Receive Capital Improvement Advisory Committee written comments on Impact Fee Study
- 6 Hold Public Hearing on Impact Fee
- 7 Approve adoption of Impact Fees

SECTION 2: LAND USE ASSUMPTIONS

This section provides an overview of the general methodology used to generate the land use assumptions and lists the land use assumptions.

2.1 LAND USE ASSUMPTION METHODOLOGY

Fulshear generated the population growth projections in this report based on reasonable and generally accepted planning principles. The following factors were considered in developing these projections:

- Character, type, density, and quantity of existing development;
- Current zoning plans;
- Future Land Use Plan;
- Growth trends;
- Location of vacant land;
- Physical restrictions (i.e. flood plains, railroads); and
- Physical development capacity of Fulshear.

Existing and future population estimates were obtained using projections provided in the on-going Water Master Plan study. In addition, the Water and Wastewater population projections were compared against the household and employment projections developed for the Impact Fee study, as well as estimates provided by City staff.

2.2 SERVICE AREA

Figure 1 shows the geographic boundary of the proposed impact fee service areas for water facilities. These service areas cover the Certificate of Convenience and Necessity (CCN) area in the City of Fulshear and its Extra-Territorial Jurisdiction (ETJ) that are currently being served or are planned to be served in the future by City water facilities. The figure also shows the location of proposed Capital Improvement Projects.

Figure 1: Water Service Area and CIP Projects

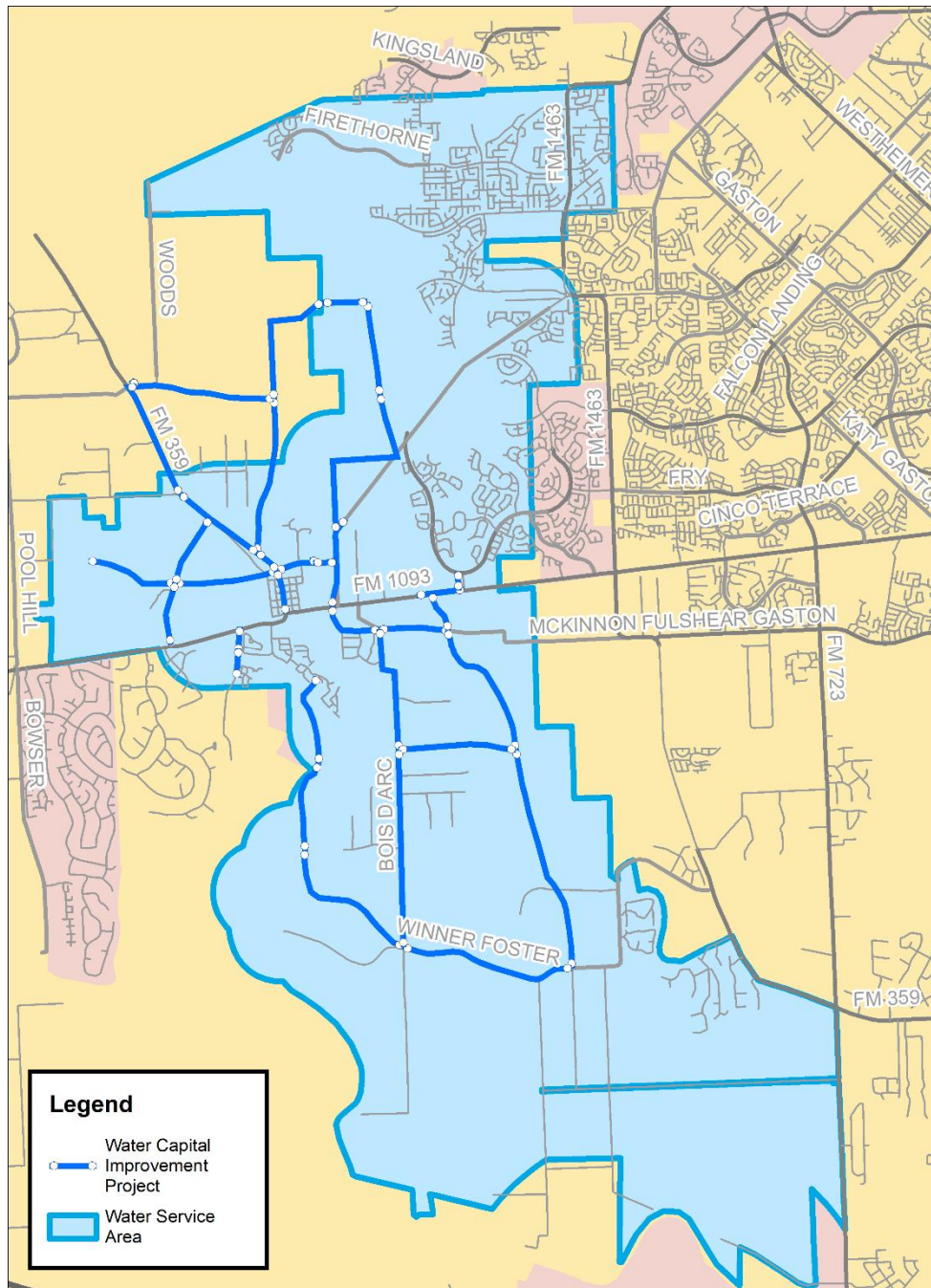
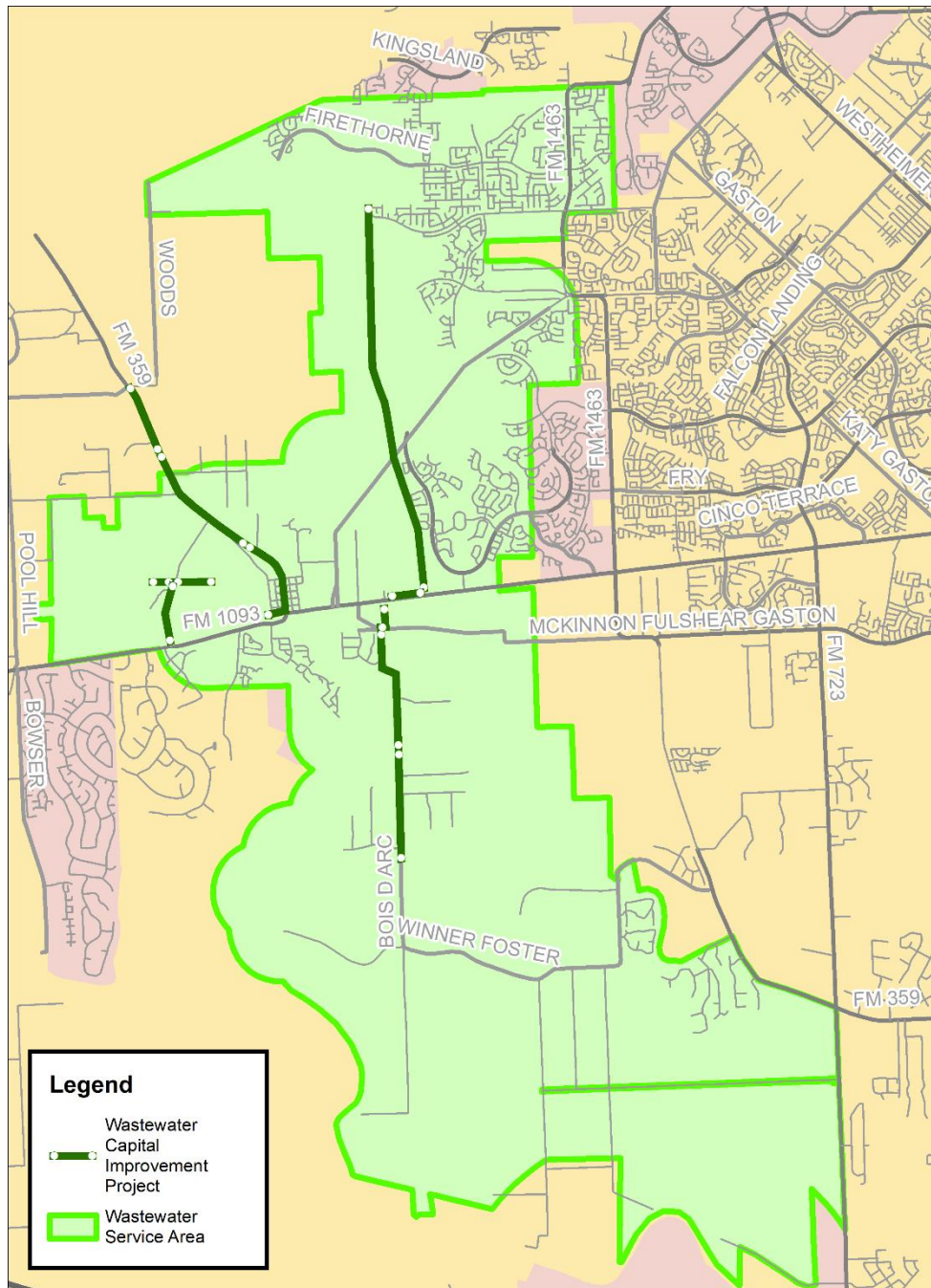


Figure 2 shows the geographic boundary of the proposed impact fee service area for wastewater facilities. The wastewater service area covers the CCN area in the City of Fulshear and its ETJ that are currently being served or are planned to be served in the future by City wastewater facilities. The figure also shows the location of proposed Capital Improvement Projects.

Figure 2: Wastewater Service Area and Proposed CIP Projects



SECTION 3: POPULATION AND EMPLOYMENT

This section describes data on population growth within the service area over the next ten years (2018 – 2028).

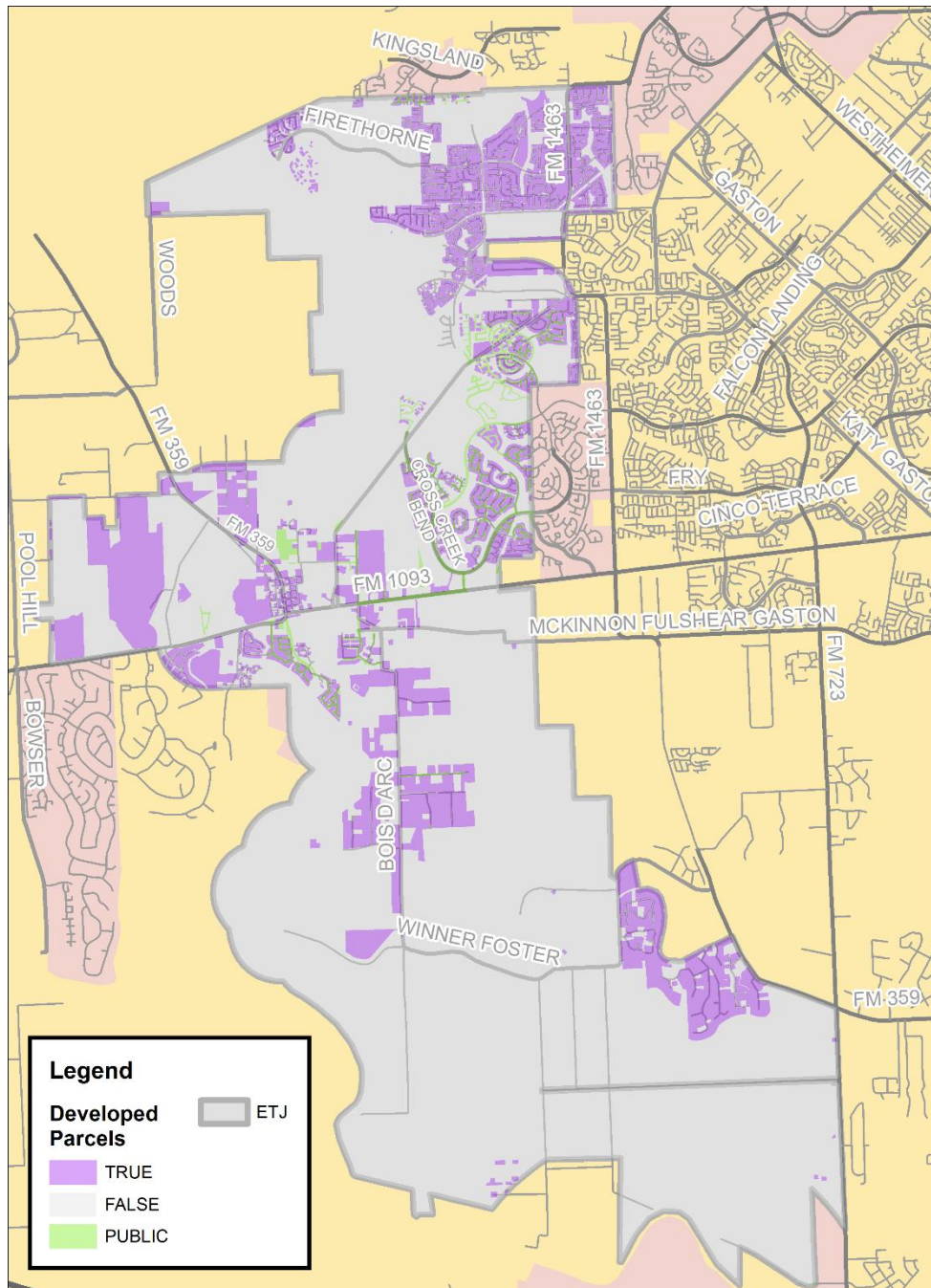
Population estimates for the base year (2018) and ten-year window (2028) were performed based upon the Waster master plan, the Water and Wastewater service area boundaries, the 2015 Roadway Impact Fee Study, and input from City staff.

3.1 DEVELOPED AREAS

Figure 3 shows which parcels in the Service Area are developed versus undeveloped. Parcel level development was estimated based on parcel geographic files provided by the Fort Bend County Appraisal District and aerial survey.

The current area in Fulshear's extra-territorial jurisdiction (ETJ) is approximately 26,377 acres. Approximately 16.4% of the ETJ is developed, with an additional 1.5% developed for public uses such as streets or municipal facilities. For this analysis, partially developed parcels were considered developed only if the majority of the parcel area was built to the future land use. Fulshear includes a significant amount of undeveloped land which will not likely be completely developed within the ten year Impact Fee timeframe.

Figure 3: Map of Developed Areas



This study selected 2019 as the base year. For parcels identified as developed, existing residential and employment estimates for 2019 were obtained using existing building information provided by the City, Fort Bend County Appraisal District, and an aerial survey of existing development. For multifamily units, a density calculation was performed based on the building’s

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footprint and average densities throughout the city. A standard conversion factor of square footage per unit was utilized to determine the number of units. Building footprint data and aeriels determined employment square footage estimates.

3.2 POPULATION PROJECTIONS

Fulshear must describe the Land Use Assumptions which provide the basis for residential and employment growth projections within the political subdivision. As defined by Chapter 395, these assumptions include a description of changes in land uses, densities, and projected development in the service area. The land use assumptions then determine the need and timing of water and wastewater infrastructure improvements to serve future development. Section 395.0455 allows Fulshear to adopt systemwide land use assumptions which cover all the area subject to the jurisdiction of the political subdivision for the purpose of creating impact fees.

The maximum impact fee determination is required to be based on the projected growth and corresponding capacity in a 10-year window. This study considers the ten-year timeframe from 2019 to 2029. The land use assumptions are based on demographic data taken from the Spring 2019 City of Fulshear Demographic Update by Population and Survey Analysts (PASA). The PASA report breaks down growth projections within the City Limits and Extra-Territorial Jurisdiction (ETJ).

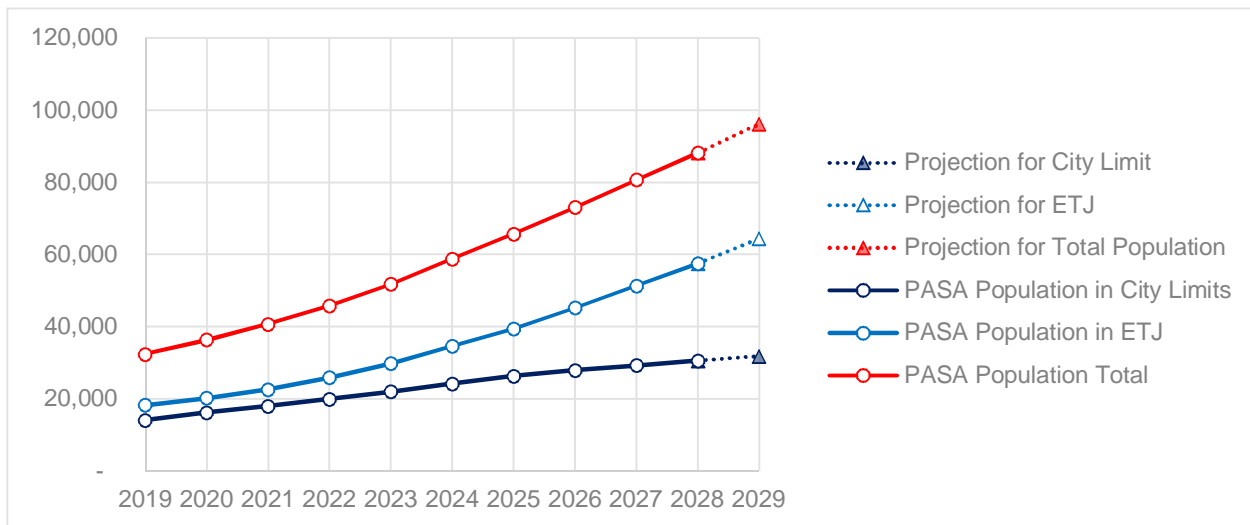
The PASA report focuses on projections the years from 2017 through 2027. This report shows how the PASA data was extrapolated to the impact fee timeframe. Table 1 summarizes the 10-year population projections.

Table 2: Ten Year Population Projection

<i>Year</i>	<i>City</i>	<i>ETJ</i>	<i>Total</i>
<i>2019</i>	14,141	18,271	32,412
<i>2029</i>	31,846	64,422	96,268
<i>10-Year Population Growth Projection</i>			Increase 63,856

Figure 4 shows the PASA population projections and the extended projection to 2019 in a graph.

Figure 4: Population Projection Graph



The City of Fulshear assumes undeveloped parcels to build-out with a density similar to the Cross Creek Ranch development. The PASA Report identifies that the weighted mean household size in the Study Area has a population density of 3.15 persons per residential unit. This report assumes a population density of 3.15 persons per residential unit for undeveloped parcels at build-out. Table 2 shows the estimated number of current residential units and 10-year projected residential units.

Table 3: Ten Year Projected Residential Units

Year	Population City + ETJ	People per Residential Unit	Residential Units
2019	32,412	3.15	10,289
2029	96,268	3.15	30,561
<i>10-Year Growth in Residential Units Projection</i>			Increase 20,272

The Fulshear Service Area is projected to experience a significant amount of residential and employment growth within the next ten years. This is consistent with the Future Land Use Plan in the Service Area.

Section 395.0455 allows Fulshear to adopt systemwide land use assumptions which cover all the area subject to the jurisdiction of the political subdivision for the purpose of creating impact fees. The following shows the systemwide assumption for population growth in the 10 year window:

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- Cross Creek Ranch portions that are nearly built-out as of 2017: 424.84 acres
- Population of CCR selected Areas (H01 H02, H16, H11, H12): 2,766 people
- Selected CCR areas population per acre: 6.51 people per acre
- Area ETJ: 26,377 acres
- Percent expected to be residential: 60 percent
- Area factored for non-residential uses: 15,826 acres
- Buildout Population (everything at CCR density) 103,037 people
- Projected Future Growth: 75,003 people
- Population growth in the ten-year window as a percent of future growth: 85.1% Percent

This report cannot predict which developments will be completed first and to what extent they will be completed in the ten-year time frame. Based on the ratio of projected overall growth to the buildout population, this report uses a systemwide land use assumption that 85.1 percent of the projected future development will occur within the ten-year impact fee study timeframe.

SECTION 4: CAPITAL IMPROVEMENT PLANS

The City has identified the utility projects needed to accommodate the projected growth within the City. Freese and Nichols, Inc. completed Fulshear's water and wastewater master plans in 2018.

4.1 EXCESS CAPACITY AND DEFICIENCIES

The Water and Wastewater Master Plan includes analysis of the capacity of the existing water distribution and wastewater collection systems.

For the water system, the master plan assessed the current supply, pumping, and storage capacity to determine that there are no current deficiencies in the system and there is some excess capacity to serve future growth. For water supply, the report shows that there is currently supply in excess of the TCEQ required capacity. For storage, the report shows that there is currently adequate storage when the hydropneumatics tanks are considered; however, the system will require additional storage capacity after combining with Cross Creek. For pumping, the report shows that there is excess pumping capacity. Proposed capital projects related to addressing capacity deficiencies have been either removed from the Impact Fee CIP or the percentage of proposed use for the ten-year window has been reduced.

For the wastewater system, the master plan assessed the capacity of the existing collection system in terms of treatment capacity and surcharge capacity of the collection system. For treatment capacity, the report shows there is need for treatment plant consolidation and a new lift station to provide treatment capacity at the desired locations. For the surcharge capacity, the report shows improvements are required including new lift stations. Proposed capital projects related to addressing capacity deficiencies have been either removed from the Impact Fee CIP or the percentage of proposed use for the ten-year window has been reduced.

4.2 UTILITY CREDIT REDUCTION

Chapter 395.014 requires the impact fee calculation to enumerate either "a plan for awarding:

- (A) a credit for the portion of ad valorem tax and utility service revenues generated by new service units during the program period that is used for the payment of improvements, including the payment of debt, that are included in the capital improvements plan; or

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(B) in the alternative, a credit equal to 50 percent of the total projected cost of implementing the capital improvements plan.”

Fulshear has elected to calculate fees based on the 50 percent utility credit reduction instead of performing a detailed financial analysis for distribution of the recoverable costs. Therefore, per Chapter 395.014, credit equal to 50 percent of the total projected cost of implementing the capital improvements plan will be applied. A portion of the remainder can be assessed as the planning window extends beyond 2029 and as the impact fees are updated in the future.

4.3 WATER CAPITAL IMPROVEMENT PLANS

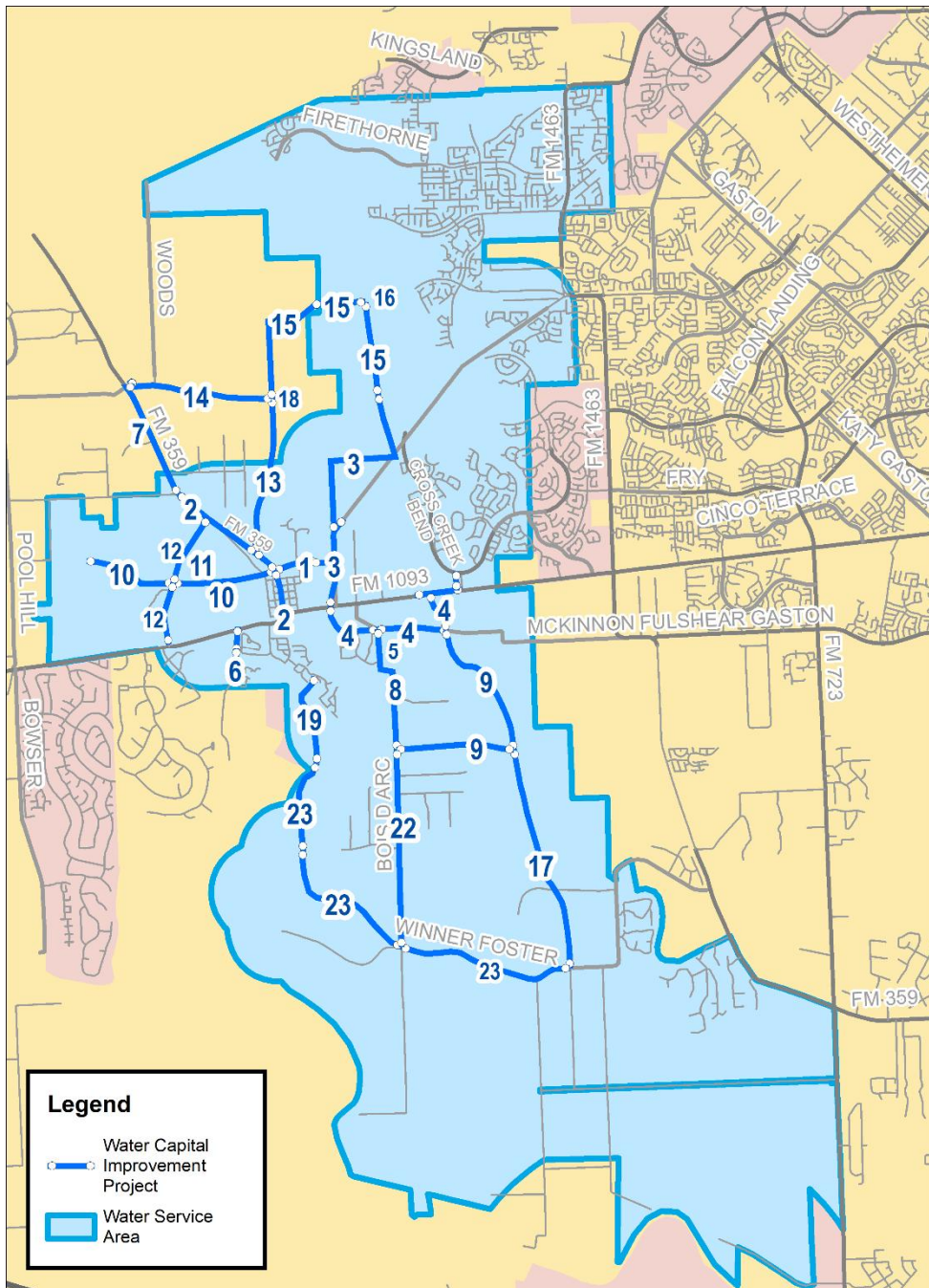
The Water Impact Fee Capital Improvements Plan was developed using projects identified in the Master Plan. Chapter 395 only allows cost recovery associated with eligible projects in a ten (10) year window from the time of the impact fee study. Seventeen (17) projects are identified in the water CIP from 2017-2026. The total cost of these projects is **\$68,622,000**. The projected total CIP recoverable cost through impact fees is **\$49,020,681**. A 4% finance cost is then added to increase the pre-credit total to \$50,981,508. After the fifty percent (50%) utility credit reduction is applied, **\$25,490,754** is recoverable through impact fees serving the 10-year system needs. The water impact fee capital improvements are shown in Table 3 and illustrated in Figure 5.

Table 4: Water Capital Improvement Plan

<i>Project Number</i>	<i>Capital Improvement Plan Project Description</i>	<i>Total Project Cost</i>	<i>Addresses Existing Deficiency</i>	<i>2019-2029 Required Capacity</i>	<i>Projected Recoverable Cost</i>
0	<i>Fulshear Water Master Plan</i>		0%	100%	
0	<i>Fulshear Impact Fee Study</i>		0%	50%	\$43,800
1	<i>16-inch Huggins Trans. Line</i>	\$1,615,500	39%	46%	\$744,342
2	<i>12/16-inch FM 359 Transmission Line - Phase 1</i>	\$3,118,600	50%	35%	\$1,095,798
3	<i>16-inch FM Katy-Fulshear Rd Transmission Line</i>	\$4,939,500	50%	35%	\$1,735,617
4	<i>16-inch Katy-Fulshear/McKinnon Rd Transmission Line</i>	\$5,758,100	20%	65%	\$3,750,682
5	<i>1.0 MG South Elevated Storage Tank</i>	\$3,120,000	20%	65%	\$2,032,290

<i>Project Number</i>	<i>Capital Improvement Plan Project Description</i>	<i>Total Project Cost</i>	<i>Addresses Existing Deficiency</i>	<i>2019-2029 Required Capacity</i>	<i>Projected Recoverable Cost</i>
6	12-inch James Ln Transmission Line	\$1,013,700	50%	35%	\$356,189
7	12-inch FM 359 Transmission Line - Phase 2	\$1,623,600	0%	85%	\$1,382,292
8	16-inch Bois D'Arc Lane Transmission Line	\$3,278,600	10%	75%	\$2,463,458
9	16-inch Texas Heritage Pkwy South Transmission Line -Phase 1	\$4,420,800	30%	55%	\$2,437,519
10	12/16-inch West Fulshear Transmission Line	\$3,398,000	25%	60%	\$2,043,472
11	Water Plant No. 2	\$16,021,200	0%	85%	\$13,640,049
12	12-inch Future Polo Ranch Transmission Line	\$2,404,000	0%	85%	\$2,046,706
13	16-inch North Fulshear Transmission Line - Phase 1	\$3,173,200	0%	85%	\$2,701,583
14	16-inch Fulshear Farms Transmission Line Loop	\$2,323,300	0%	85%	\$1,978,000
15	16-inch Transmission Line Loop	\$6,217,100	0%	85%	\$5,293,084
16	1.0 MG North Elevated Storage Tank	\$3,120,000	0%	85%	\$2,656,290
17	16/12-inch Texas Heritage Parkway South Transmission Line - Phase 2	\$3,076,800	0%	85%	\$2,619,511
	Total	\$68,622,000			\$48,976,881

Figure 5: Water CIP Projects



4.4 WATER PROJECT DESCRIPTIONS:

A detailed description of the water CIP projects identified in Table 3, and the project costs are shown below:

1. 16-inch Huggins Transmission Line

This project consists of the construction of 3,800 linear feet of a new 16-inch transmission line along extended Huggins Road from Katy-Fulshear Road to FM 359. This project increases the capacity of an existing 10-inch line, so the majority of the project cost is for existing capacity.

Project Cost: \$1,615,500

2. 12/16-inch FM 359 Transmission Line – Phase 1

This project consists of 11,100 linear feet of 12-inch and 16-inch water along FM 359 beginning at the intersection of FM 1093 and extending north. This project serves existing development, so the project is estimated to be half for existing capacity.

Project Cost: \$3,118,600

3. 16-inch FM 1093 West Transmission Line

This project consists of 15,400 linear feet of 16-inch water line beginning near the intersection of FM 1093 and Katy-Fulshear Road and extending north. This project serves existing development, so the project is estimated to be half for existing capacity.

Project Cost: \$4,939,500

4. 16-inch Katy-Fulshear/McKinnon Road Transmission Line

This project consists of 13,900 linear feet of 16-inch water line beginning near the intersection of FM 1093 and Katy Fulshear Road and extending west along McKinnon Road, and then north to FM 1093 and Cross Creek Ranch Boulevard. This project serves some existing development, so the project is estimated to be one-fifth for existing capacity.

Project Cost: \$5,758,100

5. 1.0 MG South Elevated Storage Tank

This project consists of a 1 million gallon elevated storage tank located near the intersection of Bois D'Arc Lane and McKinnon Road. This project serves some existing development, so the project is estimated to be one-fifth for existing capacity.

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Project Cost: \$3,120,000

6. 12-inch James Lane Transmission Line

This project consists of 3,200 linear feet of 12-inch water line beginning at the intersection of FM 1093 and James Lane and extending south. This project serves existing development, so the project is estimated to be half for existing capacity.

Project Cost: \$1,013,700

7. 12-inch FM 359 Transmission Line – Phase II

This project consists of 4,500 linear feet of 12-inch water line beginning at the termination of Project 2 and continuing north along FM 359. This project entirely serves future development.

Project Cost: \$1,623,600

8. 16-inch Bois D’Arc Lane Transmission Line

This project consists of 7,800 linear feet of 16-inch water line extending south down Bois D’Arc Lane beginning at the intersection of Bois D’Arc Lane and McKinnon Road. This project serves some existing development, so the project is estimated to be one-tenth for existing capacity.

Project Cost: \$3,278,600

9. 16-inch Texas Heritage Parkway South Transmission Line – Phase I

This project consists of 15,200 linear feet of 16-inch water beginning just north of the intersection of Bois D’Arc Lane and Lea Road and continuing east to Texas Heritage Parkway and then north along Texas Heritage Parkway. This project serves some existing development, so the project is estimated to be 30% for existing capacity.

Project Cost: \$4,420,800

10. 12/16-inch West Fulshear Transmission Line

This project consists of 11,200 linear feet of 12-inch and 16-inch water lines to serve the Fulshear Polo Ranch Development and the Fulshear Lakes Development. This project serves some existing development, so the project is estimated to be one-quarter for existing capacity.

Project Cost: \$3,398,000

11. Water Plant No. 2

This project consists of the construction of a water treatment plant located near the Fulshear Polo Ranch Development.

Project Cost: \$16,021,200

12. 12-inch Future Polo Ranch Transmission Line

This project consists of 7,800 linear feet of a 12-inch water line to serve the future Fulshear Polo Ranch Development. This project entirely serves future development.

Project Cost: \$2,404,000

13. 16-inch North Fulshear Transmission Line – Phase 1

This project consists of 9,000 linear feet of 16-inch water line beginning near the intersection of Wallis Street and FM 359 and extending north. This project entirely serves future development.

Project Cost: \$3,173,200

14. 16-inch Fulshear Farms Transmission Line Loop – Phase 1

This project consists of 8,400 linear feet of 16-inch water line beginning near the intersection of FM 359 and Hunt Road and extending east. This project entirely serves future development.

Project cost: \$2,323,300

15. 16-inch Transmission Line Loop

This project consists of 19,100 linear feet of 16-inch water line beginning at the termination of Projects 13 and 14, looping around to the north near the Tamarron Development and extending south to the termination of Project 3 at Katy-Fulshear Road near Cross Creek Ranch. This project entirely serves future development.

Project Cost: \$6,217,100

16. 1.0 MG North Elevated Storage Tank

This project consists of a 1 million elevated ground storage tank located near the Tamarron Development. This project entirely serves future development.

Project Cost: \$3,120,000

17. 12/16-inch Texas Heritage Parkway South Transmission Line – Phase II

This project consists of 12,000 linear feet of 12-inch and 16-inch water lines beginning at the termination of Project 9 and continuing south to the intersection of Winner Foster Road and Pirtle Road. This project entirely serves future development.

Project Cost: \$3,076,800

4.5 WASTEWATER CAPITAL IMPROVEMENT PLANS

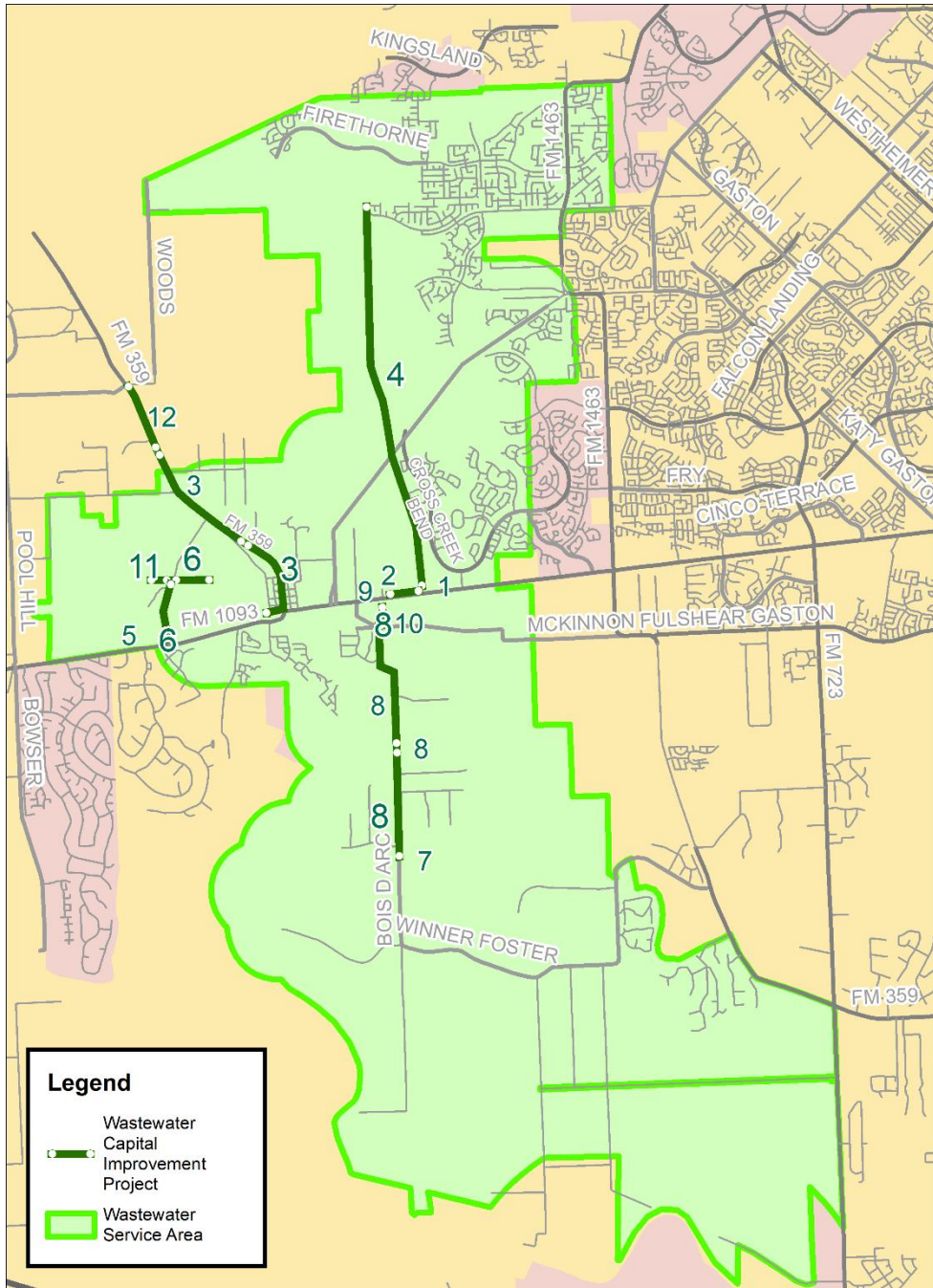
The Wastewater Impact Fee Capital Improvements Plan was developed using projects identified in the Master Plan. Chapter 395 only allows cost recovery associated with eligible projects in a ten (10) year window from the time of the impact fee study. Twelve (12) projects are identified in the wastewater CIP from 2017-2026. The total cost of these projects is **\$131,558,800**. The projected total CIP recoverable cost through impact fees is **\$78,377,921**. A 4% finance cost is then added on to increase the pre-credit total to \$81,513,038. After the fifty percent (50%) utility credit reduction is applied, **\$40,756,519** is recoverable through impact fees serving the 10-year system needs. The impact fee capital improvements for wastewater are shown in Table 5 and illustrated in Figure 6.

Table 5: Wastewater Capital Improvement Plan

<i>Project Number</i>	<i>Capital Improvement Plan Project Description</i>	<i>Total Project Cost</i>	<i>Addresses Existing Deficiency</i>	<i>2019-2029 Required Capacity</i>	<i>Projected Recoverable Cost</i>
0	<i>Fulshear Wastewater Master Plan</i>		0%	100%	
0	<i>Fulshear Impact Fee Study</i>		0%	50%	\$43,800
1	<i>3.0 MGD Cross Creek Ranch WWTP Expansion to 4.0 MGD</i>	\$37,440,000	50%	35%	\$13,155,480
2	<i>9.3 MGD WWTP Diversion Lift Station and 20-inch Force Main</i>	\$11,594,000	30%	55%	\$6,392,642
3	<i>24/27/30/36-inch FM 359 Interceptor - Phase I</i>	\$6,864,900	0%	85%	\$5,844,604
4	<i>30-inch Texas Heritage Parkway Interceptor</i>	\$10,019,500	10%	75%	\$7,528,402
5	<i>2.6 MGD West Fulshear Lift Station</i>	\$1,554,800	0%	85%	\$1,323,718
6	<i>15/18-inch West Fulshear Interceptor - Phase I</i>	\$1,646,000	0%	85%	\$1,401,363
7	<i>3.5 MGD Regional Wastewater Treatment Facility</i>	\$44,460,000	10%	75%	\$33,406,133
8	<i>30/36/48/54-inch Bois D'Arc Interceptor - Phase I</i>	\$11,787,300	25%	60%	\$7,088,588

<i>Project Number</i>	<i>Capital Improvement Plan Project Description</i>	<i>Total Project Cost</i>	<i>Addresses Existing Deficiency</i>	<i>2019-2029 Required Capacity</i>	<i>Projected Recoverable Cost</i>
9	<i>Expansion of the Diversion Lift Station from 9.3 MGD to 14.6 MGD</i>	\$4,233,900	64%	21%	\$907,700
10	<i>Existing City of Fulshear WWTP Decommissioning</i>	\$448,500	100%	0%	\$0
11	<i>12-inch West Fulshear Interceptor - Phase II</i>	\$297,600	0%	85%	\$253,369
12	<i>18-inch FM 359 Interceptor - Phase II</i>	\$1,212,300	0%	85%	\$1,032,122
	<i>Total</i>	\$131,558,800			\$78,377,921

Figure 6: Wastewater CIP Projects



4.6 WASTEWATER PROJECT DESCRIPTIONS:

A detailed description of the wastewater CIP projects identified in Table 4, and their respective costs are shown below:

1. 3.0 MGD Cross Creek Ranch WWTP Expansion to 4.0 MGD

This project consists of the expansion of the existing Cross Creek Ranch WWTP to 4.0 MGD and decommissioning the existing WWTP. This project serves existing development, so the project is estimated to be half for existing capacity.

Project Cost: \$37,440,000

2. 9.3 MGD WWTP Diversion Lift Station and 20-inch Force Main

This project consists a 9.3 MGD lift station and 11,300 LF of 20-inch force main located near the existing Fulshear WWTP at FM 359 and FM 1093. This project serves some existing development, so the project is estimated to be 30% for existing capacity.

Project Cost: \$11,594,000

3. 24/27/30/36-inch FM 359 Interceptor – Phase I

This project consists of 15,100 LF of 24/27/30/36-inch sewer lines located near the intersection of FM 1093 and FM 359 and extending north along FM 359. This project entirely serves new development.

Project Cost: \$6,864,900

4. 30-inch Texas Heritage Parkway Interceptor

This project consists of 21,800 LF of 30-inch sewer line beginning at the Cross Creek Ranch WWTP and extending north along the future Texas Heritage Parkway. This project serves some existing development, so the project is estimated to be one-tenth for existing capacity.

Project Cost: \$10,019,500

5. 2.6 MGD West Fulshear Lift Station

This project consists of a 2.6 MGD lift station located just east of the intersection of FM 1093 and Bessie's Creek Trace. This project entirely serves new development.

Project Cost: \$1,554,800

6. 15/18-inch West Fulshear Interceptor – Phase I

DRAFT

This project consists of 5,900 linear feet of 15/18-inch sewer lines beginning at the future West Fulshear Lift Station and extending north through the future Fulshear Polo Ranch development. This project entirely serves new development.

Project Cost: \$1,646,000

7. 3.5 MGD Regional Wastewater Treatment Facility

This project consists of a 3.5 MGD Regional WWTP located just south of the intersection of Bois D'Arc Lane and Red Bird Lane. This project serves some existing development, so the project is estimated to be one-tenth for existing capacity.

Project Cost: \$44,460,000

8. 30/36/48/54-inch Bois D'Arc Interceptor – Phase I

This project consists of 17,200 of 30/36/48/54-inch sewer lines beginning at the future 3.5 MGD Regional WWTP and extending north along Bois D'Arc Lane. This project serves some existing development, so the project is estimated to be one-quarter for existing capacity.

Project Cost: \$11,787,300

9. Expansion of the Diversion Lift Station from 9.3 MGD to 14.6 MGD

This project consists of expanding the future diversion lift station from 9.3 MGD to 14.6 MGD. This project partially serves existing development.

Project Cost: \$4,233,900

10. Existing City of Fulshear WWTP Decommission

This project consists of decommissioning the existing WWTP located near the intersection of FM 359 and FM 1093. This project entirely serves existing development.

Project Cost: \$448,500

11. 12-inch West Fulshear Interceptor - Phase II

This project consists of 1,500 linear feet of 12-inch sewer line connecting to the 15/18-inch West Fulshear Interceptor (Project 6) and extending west through the future Fulshear Polo Ranch development. This project entirely serves future development.

Project Cost: \$297,600

12. 18-inch FM 359 Interceptor – Phase II

This project consists of 4,400 linear feet of 18-inch sewer line beginning at the termination of the 24-inch sewer line as part of the FM 359 Interceptor Phase I (Project 3) and extending north along FM 359. This project entirely serves future development.

Project Cost: \$1,212,300

Fulshear, Texas
Water and Wastewater Impact Fee Schedule

Updated: June 4, 2019

TLGC 395 requirement	Item	Action Item	Responsible Party	Date
---		<i>Scheduling Meeting</i>	<i>KH, City Staff</i>	<i>Tuesday, February 12, 2019</i>
---		<i>Presentation on Impact Fee Overview</i>	<i>KH, City Staff, P&Z, Council</i>	<i>Tuesday, April 2, 2019</i>
395.058 (on or before C)	A	Appoint CIAC	City Council	Tuesday, May 21, 2019
		<i>Submit Draft Land Use Assumptions and CIP</i>	<i>KH</i>	<i>Tuesday, June 4, 2019</i>
		<i>Make LUA and CIP Report available to public and CIAC</i>	P&Z meeting	Friday, June 7, 2019
		Set Public Hearing for Subsequent Council	City Council	Tuesday, June 18, 2019
395.044 (30 days before C)	B	<i>Notice of Public Hearing on Land Use Assumptions and CIP</i>	<i>KH, City Staff</i>	<i>Tuesday, June 18, 2019</i>
		<i>Receive Comments from CIAC</i>	P&Z meeting	Friday, July 5, 2019
395.042	C	Public Hearing on Land Use Assumptions and CIP	City Council	Tuesday, July 16, 2019
395.045 (within 30 days of C)	D	Adopt Land Use Assumptions and CIP	City Council	Tuesday, July 16, 2019
---		<i>Submit Draft Impact Fee Study</i>	<i>KH</i>	<i>Tuesday, July 23, 2019</i>
---		<i>Review Draft Impact Fee Study</i>	<i>City Staff</i>	<i>Tuesday, August 6, 2019</i>
---		<i>Submit Final Impact Fee Study</i>	<i>KH</i>	<i>Tuesday, August 20, 2019</i>
		Set Public Hearing for Subsequent Council	City Council	Tuesday, August 20, 2019
395.049 (30 days before G)	E	<i>Notice of Public Hearing on Impact Fee</i>	<i>KH, City Staff</i>	<i>Tuesday, August 20, 2019</i>
395.050 (prior to 5th day before G)	F	<i>CIAC file written comments on Impact Fee Study</i>	<i>CIAC</i>	<i>Friday, August 2, 2019</i>
395.047	G	Public Hearing on Impact Fee	City Council	Tuesday, September 17, 2019
		<i>Prepare ordinance for adopting Impact Fee</i>	<i>City Staff, KH</i>	<i>Tuesday, September 17, 2019</i>
395.051 (within 30 days of G)	H	Approve Imposition of Impact Fee	City Council	Tuesday, October 15, 2019
395.016 (one year after H)	I	<i>City may collect impact fees for service units with building permits issued after this date</i>	<i>City Staff</i>	<i>Wednesday, October 14, 2020</i>

AGENDA MEMO
BUSINESS OF THE CITY COUNCIL
CITY OF FULSHEAR, TEXAS

AGENDA OF:	June 18, 2019	AGENDA ITEMS:	BUS- B
DATE SUBMITTED:	June 7, 2019	DEPARTMENT:	Administration
PREPARED BY:	Kimberly Kopecky	PRESENTER:	Brant Gary
SUBJECTS:	City of Fulshear Resolution appointing members to the Historic Preservation and Museum Commission		
ATTACHMENTS:	1. City of Fulshear Resolution No. 2019-422		
EXPENDITURE REQUIRED:	N/A		
AMOUNT BUDGETED:			
FUNDING ACCOUNT:			
ADDITIONAL APPROPRIATION REQUIRED:	N/A		
FUNDING ACCOUNT:			

EXECUTIVE SUMMARY

There are currently two (2) positions up for appointment in 2019. The City of Fulshear has received one application by Viola Randle for reconsideration. City of Fulshear Resolution No. 2019-422 has been prepared for the Council's consideration.

RESOLUTION NO. 2019-422

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FULSHEAR, TEXAS APPOINTING AND REAPPOINTING CERTAIN MEMBERS TO THE CITY’S HISTORIC PRESERVATION AND MUSEUM COMMISSION

WHEREAS, the City Council of the City of Fulshear, Texas is desirous of continuing the preservation of our historic and cultural artifacts and guiding the development of a Museum intended for such purpose, and;

WHEREAS, the City Council of the City of Fulshear, Texas appreciates the service and dedication of those previously and currently serving, and;

WHEREAS, the City Council of the City of Fulshear, Texas has been presented a slate of qualified willing volunteers to serve in the capacity as Members of the Historic Preservation and Museum Commission;

NOW, THEREFORE BE IT RESOLVED, BY THE CITY COUNCIL OF THE CITY OF FULSHEAR, TEXAS that those listed below:

3 – Members who will serve through June 2021

4 – Members who will serve through June 2020

<u>Pat Mollere</u>	Term expires: June 1, 2021
<u>Viola Randle</u>	Term expires: June 1, 2021
<u></u>	Term expires: June 1, 2021
<u>Sonya Simmons</u>	Term expires: June 1, 2020
<u>Pamela Davenport</u>	Term expires: June 1, 2020
<u>Laura Fleming</u>	Term expires: June 1, 2020
<u>Rebecca Patterson</u>	Term expires: June 1, 2020

Be named to serve as Members of the Historic Preservation and Museum Commission for terms as designated above during which they are expected to duly execute those responsibilities.

This resolution duly passed this 18th day of June, 2019.

Aaron Groff, Mayor
City of Fulshear, Texas

ATTEST:

Kimberly Kopecky, City Secretary