ORDINANCE NO. <u>20180911-003</u>

AN ORDINANCE AMENDING THE CITY'S WATER AND WASTEWATER IMPACT FEE PROGRAM BY ADOPTING THE IMPACT FEE LAND USE ASSUMPTIONS AND IMPACT FEE CAPITAL IMPROVEMENTS PLAN YEAR 5-YEAR UPDATE, BY REVISING THE IMPACT FEE SERVICE AREA BOUNDARY, AND BY AMENDING THE WATER AND WASTEWATER IMPACT FEES TO BE ASSESSED BY THE CITY.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF AUSTIN:

PART 1. The City Council amends the City's water and wastewater impact fee program by adopting:

- (A) the Impact Fee Land Use Assumptions and Impact Fee Capital Improvements Plan 5-Year Update, attached as Exhibit A and incorporated by reference; and
- (B) the Impact Fee Service Area described in Appendix A to the Impact Fee Land Use Assumptions Plan 5-Year Update, attached as Exhibit A; and
- (C) the amended water and wastewater assessed impact fees as described in the Impact Fee Assessed and Collected Fees 5-Year Update, attached as Exhibit A.

Page 1 of 2

PART 2. In accordance with City Code Section 25-9-313 (*Adoptions by Reference*), the documents adopted by this ordinance shall be kept on file by the City Clerk.

PART 3. This ordinance takes effect on October 1, 2018.

PASSED AND APPROVED § § September 11, 2018, 2018 § Steve Adler Mayor ATTEST **APPROVED:** annette Jannette S. Goodall Anne L. Morgan City Clerk City Attorney

Exhibit A



MEMORANDUM

To: Mayor and Council

From: Greg Meszaros, Director, Austin Water

Date: August 13, 2018

Subject: Austin Water Impact Fees Update Report

Background: Austin Water (AW) charges Impact Fees to new users connecting to the water and wastewater systems. The Impact Fees (also known as Capital Recovery Fees) allow Austin to pass on the costs of expanding the capacity of these systems directly to the new growth users. Determination of the fee is prescribed by state law (Texas LGC Section 395), and includes a requirement that the fee be updated at least every 5 years.

Under cover of this memo, AW is providing a copy of the Water and Wastewater Impact Fee Update Report, which is required to contain updated Land Use Assumptions (LUA) and a Capital Improvement Program (CIP) Plan. The LUA features the projected new service units over the 10 year study period, which AW developed in coordination with Imagine Austin, the work we have done in developing the "Water Forward Plan" for the next century, and the City Demographer among other key references. The Capital Improvement Plan (CIP) is the subset of AW's overall CIP that is necessitated by and attributable to growth over the next 10 years, which excludes renewal of existing aging infrastructure and performance enhancements benefiting both existing and new users. The LUA and the CIP underpin the calculation of the maximum allowable fee, whereas the actual collected fees are determined by the City Council.

<u>Recommendation</u>: Austin Water recommends adopting the LUA and CIP as presented, along with the proposed collected impact fee of \$4,700 for water (a 13% decrease) and \$2,500 for wastewater (a 14% increase) for a combined total of \$7,200 (a 5% decrease).

<u>Next Steps:</u> The public hearing is set for Thursday August 30, 2018 and possible Council action on Tuesday September 11, 2018. If you have any questions or need additional information please contact me.

cc: Spencer Cronk, City Manager Robert D. Goode, P.E., Assistant City Manager David Anders, Assistant Director, Austin Water Martin F. Tower, P.E., Division Manager, Austin Water Ross Crow, Assistant City Attorney, Law Department

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Exhibit A



WATER & WASTEWATER IMPACT FEE REPORTS:

ASSESSED AND COLLECTED FEES AND

LAND USE ASSUMPTIONS AND

CAPITAL IMPROVEMENTS PLAN

City of Austin, Texas Austin Water

June 13, 2018



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ASSESSED AND COLLECTED FEES

City of Austin, Texas Austin Water

ASSESSED AND COLLECTED FEES

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ASSESSED AND COLLECTED FEES

I. INTRODUCTION

Austin Water has developed this periodic impact fee update in close collaboration with the Impact Fee Advisory Committee (IFAC) and other City of Austin (city) departments in accordance with state law. The 5-year update takes a fresh look at the Land Use Assumptions (LUA) and the impact fee Capital Improvement Plan (CIP) that will serve new development in the next 10 years. The basic requirements for determining the costs "Necessitated by and attributed to" new development are prescribed in the Impact Fee Act, Section 395.016 of the Texas Local Government Code. Facility capacity that will be used by new growth and its cost are determined by first projecting the demand on the system, the LUA, and then deriving the facility plan for serving that demand, the CIP. The end-products are the maximum allowable impact fees for water and wastewater, which reflect the calculated cost of serving new growth that is not recouped in new customer rate payments. The law also sets the terms of fee assessment for a given tract of land.

The actual fees collected, up to the maximum allowable fee, are the purview of the Austin City Council. AW is proposing new collected fees for consideration via the public hearing mandated by the impact fee law. These proposed fees are presented in Section III. Subsequent to the hearing, Austin City Council will enact an ordinance adopting new fees and that ordinance will be appended to this document.

As detailed in the LUA document, Austin continues to be one of the fastest growing cities in the country, with the projected 10-year growth estimated to slightly exceed 99,000 service units, a 41% increase on the 2013 10-year growth projection. The impact fee service area has not changed significantly from the 2013 update.

As detailed in the CIP document, Austin's investments in infrastructure necessitated by and attributed to growth are planned to exceed \$629M for water and \$337M for wastewater, an average increase of 37% over the 2013 10-year capital improvements program plan. Due in large part to the realization of the Imagine Austin priority of a "compact and connected" city, as well as the success of Austin Water conservation efforts, the increased CIP expenditures are anticipated to be spread over an even larger group of growth users, resulting in a lower service unit fee.

An additional factor in calculating the new maximum allowable fees is the rate revenue credit. To avoid double charging new customers, the law requires that monies paid by new users toward the growth projects in the form of rates be subtracted from the 10-year growth project costs. Similar to the previous update in 2013, the rate revenue credit amount is calculated for Austin-specific conditions resulting in a credit of approximately 25%, and is detailed in the CIP document.

The final maximum allowable fee for a single service unit was calculated to be \$4,752 for water and \$2,572 for wastewater.

II. ASSESSED FEES

The Impact Fee Act provides what is called fee assessment in order to set the timing for establishing fees for a given tract of land. It states that impact fees must be assessed on all property no later than the time of subdivision (with certain exceptions where development occurs without the need for subdivision). Accordingly, the assessed fees for a particular lot are those in effect at the time of subdivision recordation. After 1990 the impact fee update reports and ordinances included the assessed fee separate from the maximum allowable and collected fees. The assessed fee remained constant until the 2007 update. Since then the assessed fee is deemed to be the maximum allowable amount, thereby keeping open the option of setting collected fees up to the maximum allowable fee in effect at the time a subdivision plat is recorded.

III. COLLECTED FEES

After the required public hearing and Austin City Council adoption of the LUA and CIP periodic update, Council considers adoption of the ordinance that sets the impact fees actually assessed and collected at the time of tap sale for water meter purchase and/or wastewater service. The collected fees are generally referred to as Austin's impact fees. Historically, the collected amounts have been set by ordinance at amounts lower than the maximum allowable fees. The collected fees are proposed to be \$4,700 for water and \$2,500 for wastewater.

IV. ADOPTED FEES

This section reserved for fees adopted by Austin City Council ordinance subsequent to the public hearing.

IMPACT FEE LAND USE ASSUMPTIONS

City of Austin, Texas Austin Water



IMPACT FEE LAND USE ASSUMPTIONS

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IMPACT FEE LAND USE ASSUMPTIONS

City of Austin, Texas Austin Water Utility

I. INTRODUCTION

Texas law, specifically Texas Local Government Code, Chapter 395, enacted by the State Legislature in 1987 (Senate Bill 336) and amended as recently as 2011, empowers cities to impose and collect "impact fees" and establishes the guidelines cities must follow to do so. The term "impact fee" includes the "capital recovery fees" that the City of Austin charges for facility expansion of its water and wastewater systems. The City of Austin water and wastewater impact fees are further governed by the Austin City Code, Title 25 Land Development, Chapter 25-9 Water and Wastewater, Article 3 Water and Wastewater Capital Recovery Fees, Sections 25-9-311 through 25-9-353, other sections of the Land Development Code referred to by these sections, and ordinances approved amending these sections.

Among the several requirements imposed on cities by Chapter 395 is the development and approval of a report called" land use assumptions." Section 395.001 (5) of the Local Government Code defines the term succinctly: "Land use assumptions' includes a description of the service area and projections of changes in land uses, densities, intensities, and population therein over at least a 10-year period." In a definitive article written by three people who helped develop Chapter 395, entitled "Impact Fees: The Intent Behind the New Law" (St. B. Tex. Envtl. L. J., vol. 19; 1989; pp. 68-73) by Ray Farabee, et al., the term is so described:

"Land use assumptions" are the basic projections of population growth and future land uses on which plans for new or expanded facilities must be based. The land use assumptions may be general and do not require detailed projections for specific parcels of land. They should, however, be thorough enough to permit reasonably accurate long range planning. The time period on which these projections are based must be at least ten years.

This report has been prepared for the purpose of complying with the requirements of Chapter 395 of the Local Government Code with respect to "land use assumptions." It is an amendment to the City's impact fee land use assumptions approved by the City Council on February 13, 1997, and subsequently amended and updated, most recently in August 2013, and adopted by City Council September 17, 2013. State law requires that the land use assumptions be updated at least every five years.

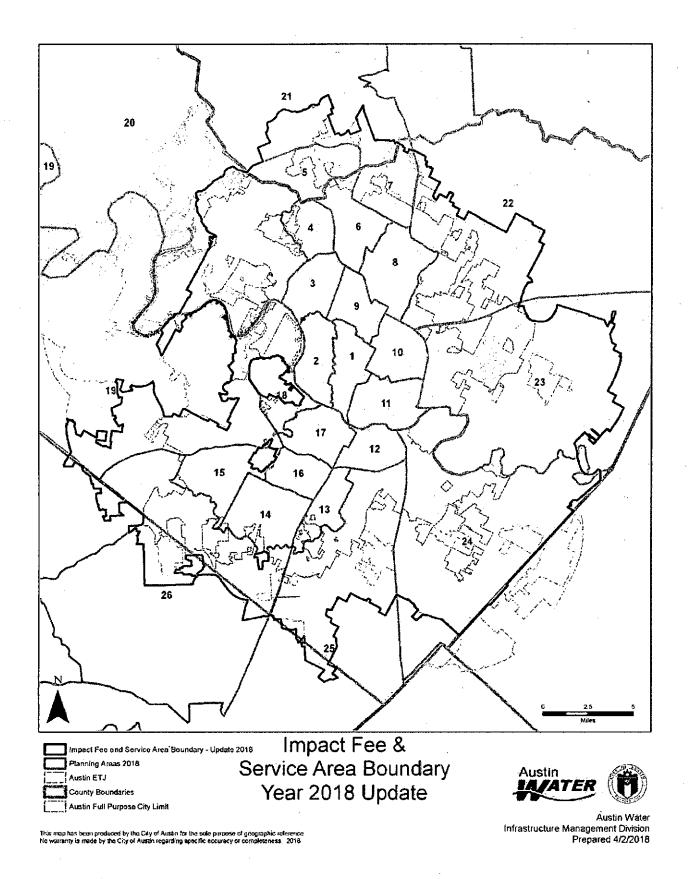
II. SERVICE AREA

The "service area", for the purposes of these land use assumptions, is the entire area within the corporate boundary of the City of Austin and its existing extraterritorial jurisdiction (ETJ) that is anticipated to be served within the next ten years by the existing city water and wastewater systems and the facilities listed in the revised Impact Fee Capital Improvements Plan. The boundary encompassing this area is illustrated by Map 1. For general reference the areas are:

- 2013 outer boundary = 544 sq. mi. (347,965 acres)
- 2018 outer boundary = 538 sq. mi. (344,083 acres)

Appendix A of this land use assumptions report provides the written description of the updated impact fee service area boundary for ordinance purposes. The written description, not the map, is the official service area description.

The Impact Fee "service area" defines the area to be used to calculate projected "service units" and the impact fee. The service area for this 2018 update was reduced in size by eliminating land considered to be transferred since 2013 from the Austin ETJ to other ETJ's. The service area was increased in part to include property added to the ETJ since 2013, and where necessary, to include land adjacent to existing water or wastewater mains.



Map 1 LUA-2 These land use assumptions anticipate that the impact fees to be calculated will be imposed uniformly over the entire service area and will be calculated in a manner consistent with that premise. This is explicitly provided for by 1989 amendments to Chapter 395 of the Local Government Code, which added Section 395.0455. This section reads in part:

System-Wide Land Use Assumptions

(a) In lieu of adopting land use assumptions for each service area, a political subdivision may, except for storm water, drainage, flood control and roadway facilities, adopt system-wide land use assumptions, which cover all of the area subject to the jurisdiction of the political subdivision for the purpose of imposing impact fees under this chapter.

Another paragraph in this section further clarifies the requirements of state law:

(c) After adoption of system-wide land use assumptions, a political subdivision is not required to adopt additional land use assumptions for a service area for water supply, treatment, and distribution facilities or wastewater collection and treatment facilities as a prerequisite to the adoption of a capital improvements plan or impact fee, provided the capital improvements plan and impact fee are consistent with the system-wide land use assumptions.

III. GROWTH PROJECTIONS

For the 2018 update, estimated 2015 and 2025 population and employment data were based on the U.S. Census data, City Demographer estimates, Planning and Development Review Department data and Austin Water billing data. The period from 2015 to 2025 is used as the basis for determining the amount of growth in a 10-year planning horizon as required in the Impact Fee Act. The Geographic Information System (GIS) -based spatial analysis procedure for updating the growth projections were done in coordination with the City Demographer from the Planning and Development Review Department. The basis of the geospatial growth projections used by Austin Water are the Delphi Trends Imagine Austin (DTI) polygons that each have estimates of 2010, 2015, 2020, 2025, and 2040 population and employment. DTI polygons are roughly analogous to Census Tracts. When aggregated the DTI polygons allow Austin Water to estimate population and employment growth to the selected impact fee service area and to the Planning Areas illustrated on Map 1.

Results for the Planning Areas illustrated on Map 1 are:

Table 1 - Population Growth. Shows estimated 2015 and projected 2025 population aggregated to Planning Areas and to total service area. As noted above, these figures are consistent with Austin Water population estimates for 2015 and 2025. These population figures correspond to estimates and projections of residents actually receiving City of Austin water and/or wastewater service. This table includes the calculated average annual growth rate, the number of estimated dwelling units, and the gross population density. The gross densities are calculated by dividing the estimated or projected population by the total acres in each Planning Area.

Table 2 - Employment Growth. Shows estimated 2015 and projected 2025 employment aggregated to Planning Area and to total service area. As noted above, these figures are consistent with Planning and Development Review Department data and Austin Water employment estimates for 2015 and 2025. This table includes the calculated average annual growth rate, and the gross employment density. The gross densities are calculated by dividing the estimated or projected employees by the total acres in each Planning Area.

Planning Area	2015 Austin Water	2025 Austin Water	Population Annual Growth Rate	Acres for 2015	2015 Residential Gross Density	2025 Residential Gross Density	Change in Residential Gross
Summary	Population 69,652	Population 93,477	2.98%	Served Area 5.121	Pop/Ac	Pop/Ac* 18.25	Density 34.21%
1.					13.60	ε.	
	27,553	34,546	2.28%	5,325	5.17	6.49	25.38%
3	28,128	30,547	0.83%	5,179	5.43	5.90	8.60%
4	21,161	22,589	0.65%	3,986	5.31	5.67	6.75%
5	39,829	51,112	2.52%	4,427	9.00	11.55	28,33%
6	36,702	44,421	1.92%	6,329	5.80	7.02	21.03%
7 · .	33,092	38,243	1.45%	3,387	9,77	11-29	15,57%
. 8	78,275	86,582	1.01%	8,076	9.69	10.72	10.61%
9	33,374	44,326	2.88%	4,698	7.10	9.44	32.82%
10	44,691	62,357	3.39%	5,352	8.35	11.65	39.53%
11	40,738	52,396	2.54%	6,211	6.56	8.44	28.62%
12	48,271	55,031	1.31%	4,194	11.51	13.12	14.00%
13	36,660	41,279	1.19%	≦. 3,922 ⊛5	9.35	. A. 10.52	12.60%
14	51,789	58,164	1.16%	7,753	5.68	7.50	12.31%
15	42,104	44,516	0.56%	7,017	6.00	6.34	5.73%
16	33,510	38,331	1.35%	4,242	7.90	9.04	14.39%
17	48,166	62,427	2.62%	5,442	8.85	11.47	29:61%
18	12,907	13,456	0.42%	2,289	5.64	5.88	4.26%
19	32,522	38,604	1.72%	8,392	3.88	4.60	18.70%
20	35,608	42,624	1.53%	8,538	4.29	4.99	16.43%
21	26,123	46,267	6.03%	3,695	7.07	 12.52 - ∑	77.11%
22	45,389	70,028	4.47%	9,896	4.59	7.08	54.28%
23	22,863	37,671	5.20%	6,698	3.41	5.62	64.77%
24	18,996	28,665	4.23%	13,360	1.42	2.15	50.90%
25	26,776	36,007	3.01%	5,819	4.60	6.19	34.48%
26	36,944	44,676	1.91%	6,131	6.03	7.29	20.93%
Total Within Boundary	972,823	1,218,343	2.27%	155,479	6.26	7.84	25.24%

Table 1: Population Growth

* Based on 2015 served area acreage

Table 2	: Empl	loyment	Growth
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	2015 Austin	2025 Austin	Employment		2015 Employment	2025 Employment	Change in
Planning Area	Water	Water	Annual Growth	Acres for 2015	Gross Density	Gross Density	Employment
Summary	Employment	Employment	Rate	Served Area	Pop/Ac	Pop/Ac*	Gross Density
1	139,170	171,160	2.08%	5,121	27.18	33.43	22.99%
2	23,047	30,688	2.90%	5,325	4.33	5.76	33.15%
3	22,550	27;204	1.89% ;	5,179	- 4.35	5.25	20.64%
4	14,761	16,638	1.20%	3,986	3.70	4.17	12.71%
5	18,046	24,203	2.98%	4,427	4.08	5.47	34.12%
6	53,367	65,504	2.06%	6,329	8.43	10.35	22.74%
7	14,438	18,110	2.29%	3,387	4.26	5.35	25.43%
8	29,737	37,485	2.34%	8,076	3.68	4.64	26.06%
9	35,470	47,752	3.02%	4,698	7.55	10.16	. 34.63%
10	20,679	26,650	2.56%	5,352	3.86	4.98	28.88%
41	20,091	26,727	2.89%	- 6,211	3.23	4.30	33.03%
12	13,835	19,046	3.25%	4,194	3.30	4.54	37.66%
	10,509	12:847	2:02%	3,922	2.68	3.28	22.25%
14	11,317	14,682	2.63%	7,753	1,46	1.89	29.73%
15	10,937	13,644	2.23%	7,017	1.56	1.94	24.75%
16	14,944	21,571	3.75%	4,242	3.52	5.09	44.35%
17	36,489	48,256	2.83%	5,442	6.70	8.87	32.25%
18	22,081	24,933	1.22%	2,289	9.65	10.89	12.92%
19	25,917	30,426	1.61%	8,392	. 3.09	3,63	17.40%
20	10,557	12,271	1.51%	8,538	1.24	1.44	16.23%
21	7,228	् १ - 10,168	3.48%	3,695	1.96	2.75	🚌 40.68% 🖓 👘
22	33,218	42,377	2.46%	9,896	3.36	4.28	27.57%
23	8,939	13,004	3.84%	6,698	1.33	194	45.48%
24	8,441	12,794	4,28%	13,360	0.63	0.96	51.57%
25	11,963	15,447	2.58%	د <mark>کر 5,819</mark>	2.06	2.65	29.13%
26	4,449	5,728	2.55%	6,131	0.73	0.93	28.75%
Total Within	622 170	789.314	2.40%	155.479	4.00	5.08	26.86%
Boundary	622,179	192,314	, ∠.4 07b	1 72,412 ,41	4.UU	S.UO 98 - 7. 19	20.8070

* Based on 2015 served area acreage

IV. SERVICE UNITS

Centralized Water and Wastewater Service Unit Assumptions

Calculation of the impact fee in accordance with Chapter 395 of the Local Government Code requires the use of a "service unit." Within the definitions section of Chapter 395.001(10), "Service unit' means a standardized measure of consumption, use, generation, or discharge attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years."

To use a simplified explanation, the number of projected new service units are divided into the costs of capital projects allocated to this new growth in order to calculate the allowable impact fee (per service unit). The journal article by Ray Farabee, et.al, mentioned previously, states that the "Service unit' is one of the most important, but conceptually difficult, elements of the (new) law." This article also observes that "Cities may select their own standards for measuring service units, but any measure chosen must attempt to accurately reflect differences in service consumption between users." Austin's capital recovery fee ordinances have for years used the "fee unit" for this purpose, and it remains the most appropriate choice for the "service unit" under the terms of Chapter 395. The term "service unit" has replaced "fee unit" in the Austin ordinances and codes in recent years. The service unit is based on the size of water meter sold, exactly as the fee unit was calculated. Table 3 illustrates the relationship between service units and meter sizes. The service unit calculation depends on the relative differences between the various sizes and types of meters as determined by their rated maximum flows and rated continuous flows.

Table 3: Calculation of Service Units

The size and type of water meter purchased determines number of service units in accordance with the following schedule:

METER SIZE	TYPE	SERVICE UNITS
5/8"	positive displacement	1.0
3/4"	positive displacement	1.5
1"	positive displacement	2.5
1 1/2"	positive displacement	5
1 1/2"	turbine	9
2"	positive displacement	8
2"	compound	8
2"	turbine	16
3"	single-jet	16
3"	compound	17.5
3"	turbine	35
4"	single-jet	25
4"	compound	30
4"	turbine	65
6"	compound	67.5
6"	turbine	140
8"	compound	90
8"	turbine	240
10"	turbine	350
12"	turbine	440

The service unit is determined on the basis of the American Water Works Association (AWWA) standards C700-15, C701-15, C702-15 and C712-15 recommended maximum rate for continuous duty (flow) of the meter purchased at sale of tap. The service unit, as described here, has for years been in Austin's capital recovery fee ordinances; it is well accepted, and it is extraordinarily easy to calculate at time of collection. In addition, it is based on Uniform Plumbing Code meter size and type criteria counting plumbing fixtures that directly reflect the differences in service consumption between different users. Table 4 shows the latest count of all meters in the system in September 2015 by size. From that list is calculated the number of hypothetical service units installed in the system. That figure is 393,263 service units as shown on Table 4.

Meter Size	Meters September 2015*	Service Unit Multiplier	September 2015 Service Units
5/8"	189,124	1	189,124
3/4"	13,863	1.5	20,795
1"	9,501	2.5	23,753
1 1/2"	4,206	6.5	27,322
2"	4,139	10.91	45,144
3"	1,596	19.79	31,591
4"	737	33.73	24,857
6"	254	76.10	19,328
8"	58	108.10	6,270
10"	12	350	4,200
12"	2	440	880
Total	223,492		393,263

Table 4: Estimate of Service Units in the Austin Water Distribution System

* Meter count September 2015 without individual customers in wholesale utilities.

Existing Water System Service Units

To determine the flow equivalent of a water system service unit, the system pumpage is divided by the total number of service units. The actual water system pumpage for FY15 (October 2014-September 2015) was 43,481 million gallons. Therefore the current system-wide flow average is 303 gallons per day per service unit.

Total Water System PumpageTotal Number of WaterSystem Service Units

 $\frac{43,481 \text{ Million Gallons per Year}}{393,263 \text{ Service Units}} = 303 \text{ Gallons per Day per Service Unit}$

Existing Wastewater System Service Units

The wastewater collection system does not have individual meters for a majority of the customers. In most cases wastewater is billed based on water meter data and water customers are also wastewater customers. Therefore wastewater collection system service units are estimated based on the water distribution system service units and the known differences between water and wastewater customers. It is assumed that there is a direct relationship between the number of water & wastewater customers (population and employees) and the number of service units so the number of wastewater service units is estimated to be 96.4% of the water distribution system service units or 379,240 service units based on the number of wastewater and water customers sewed.

The wastewater collection system service unit flow equivalent is calculated using the total system influent treated at the wastewater treatment plants. The FY15 total wastewater collection system influent is estimated to be 41,230 Million gallons. Therefore the flow equivalent per wastewater service unit is estimated to be 298 gallons per day per service unit.

Total <u>Wastewater System Influent</u> <u>Total Number of Wastewater</u> = Wastewater Flow per Day per Service Unit System Service Units

 $\frac{41,230 \text{ Million Gallons per Year}}{379,240 \text{ Service Units}} = 298 \text{ Gallons per Day per Service Unit}$

Future Water and Wastewater Service Units

The projection of new service units presents a challenge in that it depends on size, type and number of meters sold, while the basis for the forecasts are population and employment converted to water and wastewater flows. The projection estimates of future service units are based on relationships between population, employment, total flow, and per capita flow projections.

Future service unit forecasts are derived from projections of population and employment combined with planned water pumpage forecasts. 2025 water pumpage forecasts are calculated with the Disaggregated Demand Model (DDM), Austin Water's Integrated Water Resource Plan (Water Forward) demand forecasting model. The DDM incorporates projected additional passive water conservation and estimates a slight reduction in the per capita pumpage over the planning horizon, while increasing the population and employment. Projected additional passive water conservation results in a reduced number of gallons per service unit in the future. The gallons per capita per day (gpcd) is calculated by dividing the total system pumpage by the total population. The 2015 gallon per capita day Pumpage was 122 gpcd. The 2025 forecasted population and total system pumpage from the DDM and equates to 119 gpcd. The 2025 water flow per service unit is estimated to be 295 gallons per day per service unit.

 $\frac{122 \text{ gallons per capita day (2015)}}{119 \text{ gallons per capita day (2025)}} = \frac{303 \text{ gallons per day per service unit (2015)}}{295 \text{ gallons per day per service unit (2025)}}$

The 2025 total water system pumpage, based on the DDM is 53,006 million gallons. Dividing the total annual pumpage by 295 gallons per day per service unit gives a 2025 estimate of 492,514 service units.

Future wastewater service units were estimated based on water service unit estimates and the population and employment estimates for water and wastewater customers. Wastewater treatment flow per capita has not declined recently. It appears that most water conservation related demand reductions are related to outdoor water use and wastewater inflow and infiltration seems to largely offset indoor water conservation measures. For these reasons, the wastewater flow per service unit estimate, 298 gallons per service unit per day is assumed to remain constant from 2015 to 2025. The 2025 total wastewater system influent flow is projected to be 52,107 million gallons per year. Dividing 52,107 million gallons per year by 298 gallons per service unit per day gives a 2025 estimate of 479,059 service units.

The spatial summary of the results of this exercise is presented in Table 5. The population and employment projections of Section III Tables 1 and 2 were converted to average daily water pumpage and then to forecasts of new service units for the entire service area.

Table 5: Projections of Water Service Units

j	2015	2015			2025	2025		
Planning Area	Residential	Employment	2015 Total	2015 Service	Residential	Employment	2025 Total	2025 Service
Summary	MGÐ	MGD	MGD	Units	MGD	MGD	MGD	Units
1	5.6	9.2	14.8	48,762	7.2	7 (11.3 \$ 4)	18.4	62,459
2	2.2	1.5	3.7	12,320	2.6	2.0	4.7	15,818
3	2.3	1.5	**/ 3.7	12,364	2.3 ∖}	1.8	4.1	14,002
4	1.7	1.0	2.7	8,822	1.7	1.1	2.8	9,578
5		1.2	4.4	14,484	3.9	1.6	5.5	18,674
6	2.9	3.5	6.5	21,346	3.4	4.3	7.7	26,149
7	2.7	1:0	3.6.	11,913	2.9	1.2	4.1	13,973
8	6.3	2.0	8.2	27,217	6.6	2.5	9.1	30,850
9	2.7	2.3	5.0	16,567	3.4	3.1	6.5	22,165
10	3.6	1.4	5.0	16,345	4.8	1.8	6.5	22,141
11	3.3	1.3	4.6	15,170	4.0	1.8	5.8	19,571
12	3.9	0.9	4.8	15,804	4.2	1.3	5.5	18,542
13	2.9	0.7	3.6	12,003	3.2 🦾	0.8	4.0	13,587
14	4.2	0.7	4.9	16,188	4.5	1.0	5.4	18,382
15	; 3 :4	0.7	4.1	13,538	3.4	0.9 *	4.3	14,606
16	2.7	1.0	3.7	12,134	2.9	1.4	4.4	14,768
17	3.9	2.4	, 6.3	20,709	4.8	3.2	8.0	26,979
18	1.0	1.5	2.5	8,228	1.0	1.6	2.7	9,057
.19	2.6	1.7	4.3	14,261	3.0	2:0	5.0	16,814
20	2.9	0.7	3.6	11,999	3.3	0.8	4.1	13,808
21	. 2.1	0.5	2.6	8,496	⊴3.5 ≷ <u></u> ×	0.7	4.2	14,285
22	3.6	2.2	5.8	19,261	5.4	2.8	8.2	27,641
23	1.8	0.6	2.4	8,005	2.9	0.9	<u>3.7</u>	12,685
24	1.5	0.6	2.1	6,872	2.2	0.8	3.0	10,299
-25	2.1	0.8	2.9	9,700	2.8	1.0	- 3.8	12,798
26	3.0	0.3	3.3	10,758	3.4	0.4	3.8	12,882
Total Within Boundary	78.1	41.0	119.1	393,263	93.3	51.9	145.2	492,514

IMPACT FEE LAND USE ASSUMPTIONS - APPENDIX A

Description of Impact Fee Boundary for 5-Year Update Adopted TBD

(Ord-)

All jurisdiction boundaries such as county lines, utility companies, municipalities, etc., used in this description are those boundaries as they exist on the date this boundary is adopted and are to be recognized as the most accurate location of the impact fee boundary if another landmark or distance reference creates an ambiguity.

All street and landmark names reflect one of the names shown in commonly available maps of the Austin area. The City of Austin GIS was used for street names in this description. Distances have been scaled from Austin GIS and are intended to approximately place the boundary when landmarks are not available or may be ambiguous. The referenced landmark is to be taken as the accurate location.

When a road, street, etc. is referenced, the boundary is assumed to follow the centerline, and only one side of the road, street, etc. is within the impact fee service area boundary.

Boundaries of any city's jurisdiction (ETJ or city limits), counties, and the service area of another utility, can be found by referring to maps available from those individual entities. The accuracy of those maps is not warranted by the City of Austin or the Austin Water Utility. Taxing authority records also indicate inclusion in the individual entities.

The impact fee service area described below shall not include the certificated service area of another utility providing water and/or wastewater service to its customers under a certificate of convenience and necessity from the Texas Commission on Environmental Quality or its predecessor and successor agency and with whom the City has no wholesale contract to provide water and/or sewer service providing for the payment of impact fees.

The impact fee service area described below shall not include land within the jurisdiction of cities other than Austin; provided, that within the jurisdiction of cities other than Austin, land is included within the impact fee service area where it is included in the service area of those utilities with whom the City has wholesale contracts to provide water and/or sewer service providing for the payment of impact fees or where that other city has executed an agreement with Austin for the City to supply retail water and/or wastewater service providing for the payment of impact fees.

Where the impact fee service area is described by the Austin jurisdiction passing through a tract, the entire tract which is partially in the Austin jurisdiction and not in the jurisdiction of another city will be considered to be in the service area.

In addition to land within the impact fee service area described below, the impact fee service area includes land in the service areas of those utilities with whom the City has wholesale contracts to provide water and/or wastewater service providing for the payment of impact fees, to the extent such land has been approved by the City to receive water and/or wastewater service from the City.

Any tract of land which is not entirely within the impact fee service area, as described below or according to the conditions described above, is not considered to be in the impact fee service area.

Accordingly, the City of Austin Impact Fee Service Area Boundary is described as follows:

- 1. Beginning at the common city limits of Buda, Hays County, and Austin the boundary proceeds in a general east and south direction along the jurisdiction boundary of Hays County for 1.8 miles to the common jurisdiction boundary of Austin and Niederwald.
- 2. Then proceeding in a general east direction along the common jurisdiction boundary of Austin and Niederwald for 1.1 miles.
- 3. Then proceeding in a general east direction along the City of Austin 5 mile ETJ for 190 feet to the common jurisdiction boundary of Austin and the Village of Creedmoor.
- 4. Then proceeding north and east along the common jurisdiction boundary of Austin and the Village of Creedmoor for 10.2 miles to the common jurisdiction boundary of Austin and the Village of Mustang Ridge.
- 5. Then proceeding in a general east direction along the jurisdiction boundary of Austin and the Village of Mustang Ridge for 6.7 miles to the Bastrop county line.
- 6. Then proceeding in a general northeast direction along the Bastrop county line for 2.3 miles until it intersects with FM 812 at the boundary of the Austin Water CCN.
- 7. Then proceeding generally north and east along the boundary of the Austin Water CCN for 1.7 miles before returning to the Bastrop County Line.
- 8. Then proceeding in a general northeast direction along the Bastrop county line for 5.5 miles until it intersects with State Highway 71 at the Austin 5 mile ETJ boundary.
- 9. Then proceeding in a general north and east direction along the Austin 5 mile ETJ for 3.6 miles to the common jurisdiction boundary of Austin and the Village of Webberville.
- 10. Then proceeding along the common jurisdiction boundary of Austin and Webberville for 9.2 miles.
- 11. Then proceeding in a general north direction along the Austin 5 mile ETJ for 4.3 miles to the common jurisdiction boundary of Austin and Manor.

- 12. Then proceeding in a general west and north direction along the common jurisdiction boundary of Austin and Manor for 15.0 miles to the common jurisdiction boundary of Austin and Pflugerville.
- 13. Then proceeding in a general west direction along the common jurisdiction boundary of Austin and Pflugerville for 15.0 miles to the common jurisdiction boundary of Austin and Round Rock.
- 14. Then proceeding in a general north and west direction along the common jurisdiction boundary of Austin and Round Rock for 11.2 miles to the common jurisdiction boundary of Austin and Cedar Park.
- 15. Then proceeding in a general south and west direction along the common jurisdiction boundary of Austin and Cedar Park for 10.9 miles until it intersects with FM 2769.
- 16. Then proceeding in a general west direction along FM 2769 for 1.0 miles until it intersects with Bullick Hollow Road.
- 17. Then proceeding in a general south direction along Bullick Hollow Road for 1.0 miles until it intersects the eastern boundary of Travis County WCID #17.
- 18. Then proceeding in a general south direction along the eastern boundary of Travis County WCID #17 for 8.3 miles until reaching the Colorado River.
- 19. Then proceeding south across the river for 0.1 miles to the northern tip of the Balfour Track.
- 20. Then proceeding in a counter clockwise direction around the boundary of Balfour for 4.4 miles.
- 21. Then proceeding along the Austin Full Purpose City Limit for 9.6 miles until reaching the boundary of Travis County WCID #10.
- 22. Then proceeding in a general south direction along the western boundary of Travis County WCID #10 for 3.1 miles.
- 23. Then proceeding along the Austin Full Purpose City Limit for 8.0 miles until it intersects with Amarra Drive.
- 24. Then proceeding along the Austin Limited Purpose City Limit for 0.4 miles to the southeast corner of the Barton Creek Habitat Preserve.
- 25. Then proceeding along the southern border of the Barton Creek Habitat Preserve for 1.6 miles to the edge of the West Travis County Public Utility Agency.
- 26. Then proceeding along the West Travis County Public Utility Agency boundary for 13.9 miles to the boundary of the Shield-Ayres City of Austin Conservation Easement.
- 27. Then proceeding in a general west direction along the Shield-Ayres City of Austin Conservation Easement boundary for 3.5 miles until it intersects with the Austin 5 mile ETJ.
- 28. Then proceeding in a general south direction along the Austin 5 mile ETJ for 2.3 miles to the common jurisdiction boundary of Austin and Dripping Springs
- 29. Then proceeding in a general south and east direction along the common jurisdiction boundary of Austin and Dripping Springs for 7.5 miles to the common jurisdiction boundary of Austin and the Village of Bear Creek.
- 30. Then proceeding along the common jurisdiction boundary of Austin and the Village of Bear Creek for 3.7 miles to the common jurisdiction boundary of Austin and Dripping Springs.
- 31. Then proceeding in a general south and east direction along the common jurisdiction boundary of Austin and Dripping Springs for 5.9 miles to the common jurisdiction boundary of Austin and the City of Hays.
- 32. Then proceeding along the common jurisdiction boundary of Austin and the City of Hays for 9.7 miles to the common jurisdiction boundary of Austin and Buda.
- 33. Then proceeding along the jurisdiction boundary of Austin and Buda for 9.9 miles ending at the common city limits of Buda, Hays County, and Austin which marks both the end and beginning points of the Impact Fee Service Area Boundary.

IMPACT FEE CAPITAL IMPROVEMENTS PLAN

City of Austin, Texas Austin Water



IMPACT FEE CAPITAL IMPROVEMENTS PLAN TABLE OF CONTENTS

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I. INTRODUCTION

The Texas Impact Fee Act (Chapter 395 of the Texas Local Government Code) provides methods and procedures that cities like Austin must follow to continue to impose water and wastewater impact fees. This act requires the determination of the costs of capital improvements attributable to new growth for a specified period of time. These costs are the principal building blocks on which the calculation of impact fees is based. The plan that identifies the capital improvements or facility expansions for which impact fees may be assessed is termed the "capital improvements plan" (CIP). In 1990, the City of Austin achieved compliance with the Texas Impact Fee Act by approving land use assumptions on April 5, 1990 and then approving the impact fee CIP and amendments to the ordinance on June 7, 1990. In subsequent years, the City has maintained compliance with periodic updates. From 1990 to 2001, the Texas Impact Fee Act stipulated that the land use assumptions and impact fee CIP be updated at least every three years. Beginning September 1, 2001, the Texas Impact Fee Act stipulates that these updates are to be done at least every five years. The five-year period begins on the day the impact fee CIP is adopted. This document represents the update to the CIP. Both it and the land use assumptions can be adopted at the same time.

The law outlines a methodology for calculating the cost of particular facilities attributable to new growth based on a defined planning period (not to exceed 10 years). The planning period establishes a time frame in which to evaluate capacity made available for new growth as compared to the demand for that capacity represented by the land use assumptions. One of the keys to the methodology is the expression of both demand and capacity for a particular project in terms of service units. By knowing the number of service units associated with the impact fee projects that are expected to be used during the planning period, the capacity and cost attributable to new growth can readily be determined. Using this cost and the projected total number of new service units within the utility service boundary during the planning period, the "maximum fee per service unit" may be calculated as prescribed by the law. The methodology of the Capital Improvements Plan provides the framework for calculating the maximum allowable impact fee, which is the upper limit on the fee pursuant to the law.

The methodologies employed in this Impact Fee CIP comply with the provisions of the Texas Impact Fee Act. This update is as comprehensive as previous updates, including a thorough review of the list of qualified CIP projects. It continues to exclude projects that are predominately attributable to existing users, or that may not be constructed and in service within the ten-year planning period. And in cases where other participants contributed funds, only the City of Austin's shares of the costs were included.

The Impact Fee CIP process calculates the maximum allowable fees. This calculation conforms to the state requirement for the Impact Fee CIP to include a plan for awarding a credit for the portion of water and wastewater 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 Impact Fee CIP. Note that, beginning September 1, 2001, Impact Fee CIP updates prior to the 2013 Update incorporated an alternative credit method that was equal to 50 percent of the total projected cost of implementing the capital improvements plan. Beginning with the City's 2013 update, a rate revenue credit method was used. Additional discussion of the rate revenue credit method applied in this 2018 Impact Fee update can be found in Section VII.

II. FACILITY PLANNING – DEFINING THE LEVEL OF CAPACITY USAGE AND RESERVE CAPACITY NEEDS

Section 395.014 of the impact fee law as codified in the Texas Local Government Code speaks to a capital improvements plan that addresses:

(1) a description of the existing capital improvements within the service area and the costs to upgrade, update, improve, expand, or replace the improvements to meet existing needs and usage and stricter safety, efficiency, or environmental or regulatory standards.

(2) an analysis of the total capacity, the level of current usage, and commitments for usage of capacity of the existing capital improvements.

Using the methodology described later in this document, major facilities targeted to benefit new growth were identified and the portions of capacity serving existing and future users estimated. To provide an overall comparison of the capacity and costs associated with new growth projects versus those associated with existing needs, the recent Capital Improvements Program (CIP) projects of Austin Water have been divided into the three groups. Appendices C and D include those projects from the FY 2018/2022 CIP built in prior years or scheduled to be built in the next few years that are targeted to benefit existing users and to meet stricter safety, efficiency, environmental or regulatory standards. Tables 1 (CIP-3) and 2 (CIP-15) list those water and wastewater impact fees projects that have been built or plan to be built in the future and that will largely benefit new Utility customers during the next ten years. Table 3 (CIP-25) is composed of projects that are anticipated to be built late in the ten-year planning period or beyond, and thus are not included in the group of projects on which impact fee calculations are based. Projects removed from the project listing adopted in the 2013 Impact Fee CIP are shown on Table 4 (CIP-26). Major utility facilities are shown on Water Map 1, 1A, 1B, 1C, 1D, 1E, following Table 1 and Wastewater Map 2, 2A, 2B, 2C, 2D and 2E following Table 2. These maps also illustrate the location of the Impact Fees CIP projects.

A comparison of the dollar value of projects in the Appendices and Tables 1, 2, and 3 gives an indication of the relative investment in capacity to serve existing and future needs (as defined by the law) as a function of the Capital Improvements Programs (CIPs) of the 1980s. Some of the projects in Appendices C and D will certainly benefit future users; however, in order to take a conservative approach to ensuring full compliance with the law, they will not be considered impact fee projects when they are made necessary by environmental and regulatory requirements. Other projects in Appendices C and D will also benefit future users as well as existing users (annexation areas, highway utility relocations, and certain trunk lines internal to the system) but when their benefit to existing users outweighs the benefit to future users, they are not included in with the impact fee projects in Tables 1 and 2.

Analysis of the level of existing usage of capacity in the case of water and wastewater treatment plants is a straightforward examination of flow data. Flow data for pipes in the water distribution system and wastewater collection system is generally not available, so hydraulic analysis was used to help estimate utilization levels of pipes under selected demand conditions (existing or future). The summary tables at the end of this document, Tables 8 and 9, include an estimate of the existing users and the total capacity of impact fee projects expressed in service units for water pressure zones and wastewater collection areas. Inspection of these figures gives an indication of the level of existing capacity usage and the reserve capacity associated with the facilities.

In sizing and timing new facilities, both population projections (the Land Use Assumptions) and trending from historical flow data regression are used in predicting demands (flows) associated with future growth. These demands are then input into the computer models. Model simulations yield the necessary pipe capacity to meet pressure and flow performance objectives. CIP Planning at Austin Water considers a number of factors to identify the best infrastructure timing and sizing investment alternatives. The principle factors weighed in this analysis are:

- * alternatives analysis
- * capital costs
- * operation and maintenance costs
- * time value of money
- * economy of scale
- * environmental and other key non-pecuniary impacts

The Utility's CIP, especially the group of impact fees projects, is the set of facilities that will satisfy needs for additional capacity in the next ten years as indicated by the Land Use Assumptions.

The Utility seeks to maintain a healthy, cost-effective amount of reserve capacity in the water and wastewater system in order to carry out its mission of providing safe, reliable service. In this way, the commitments that the City makes to its customers in the form of tap sales, service extension requests, developer reimbursement contracts, and Municipal Utility District and other district contracts, can be fulfilled in a manner that allows all parties in the development process to plan efficiently. The impact fee methodology prescribed by state statute serves the function of quantifying the cost of the reserve capacity that constitutes the Utility's plan for serving new customers for a ten-year planning horizon. This Impact Fee update is consistent with a number of core principles of the City's Imagine Austin comprehensive plan including:

- Growth as a compact and connected city
- Develop as an affordable and healthy community
- Sustainably manage water and other environmental resources

Imagine Austin's planning framework and guidelines are part of Austin Water's planning processes and are integrated into the development of the Utility's CIP.

Table 1 Water Impact Fee Project

(Costs in 1000s)

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date	4	Cost to Build	li	nterest Cost
City Construction								
2006.003	Four Points and Forest Ridge Pump Station Upgrades	NWB: 5.8 MGD, NWC: 10.4 MGD	Northw est C	2007	\$	755	\$	803
2006.003	Four Points and Forest Ridge Pump Station Upgrades	NWB: 5.8 MGD, NWC: 10.4 MGD	Northw est C	2007	\$	142	\$	
2032.001	Four Points Reservoir	8 MG	Northwest C	1988	\$	5,194	\$	5,526
3889.001	Canyon Creek 30" Transmission Main	30"	Northwest C	1987	\$	1,231	\$	1,310
5038.001	Anderson Mill Northwest C Pump Station and Tank	11.2 MGD, 1.5 MG	Northwest C	2016	\$	1,339	\$	-
5038.001	Anderson Mill Northwest C Pump Station and Tank	11.2 MGD, 1.5 MG	Northwest C	2016	\$	10,125	\$	10,773
5038.002	Anderson Mil/RR 620 Transmission Main	24/36"	Northwest C	2016	\$	4,708	\$	5,010
793.001	Anderson Mill Transmission Main III	16"	Northwest B	2016	\$	4,736	\$	5,039
793.002	Anderson Mill Transmission Main Ph IIA & M	24"	Northwest B	2000	\$	2,085	\$	2,218
1086.001	Jollyville Transmission Main Ph IIA & III	48"	Northwest B	2001	\$.8,138	\$	8,658
1086.002	Jollyville Transmission Main Ph IIB	48*	Northwest B	2001	\$	1,135	\$	1,207
3616.001	Anderson Mill Reservoir	3 MG	Northw est B	1989	\$	4,149	\$	4,414
3897.001	Joliyville Pump Station	45 MGD	Northwest B	1989	\$	6,751	\$	7,183
6935.019	Parmer & 620 Interconnect	24"	Northwest B	2021	\$	2,220	\$	2,362
							_	
2014.001	Martin Hill - Northwest A Pressure Zone Reservoir	34 MG	Northw est A	1988	\$	8,378	\$	8,915
2014.001	Martin Hill - Northwest A Pressure Zone Reservoir	34 MG	Northw est A	1988	\$	1,639	\$	•
3212.093	How ard Lane Projects	16"	NorthwesI A	2012	\$	1,027	\$	1,093
4758.002	16" FM 1825 Interconnect .	16"	Northwest A	2005	\$	803	\$	-
4814.002	How and Lane East Transmission Main - Segment 2	36*	Northw est A	2000	\$	4,765	\$	5,070
					_			
2028.001	Martin Hill Transmission Main	54"	Northwest A/B/C	2017	\$	25,076	\$	26,680
4814.003	Howard Lane Pump Station and TM	24/36/42/54", 43/65 MGD	Northwest A/B/C	2001	\$	15,193	\$	16,165
4814.004	How and Lane Water Transmission Main	24/36/42/54"	Northwest A/B/C	2001	\$	1,922	\$	-
6935.016	Jollyville Northwest A Transmission Main (Plant 4)	84"	Northwest A/B/C	2015	\$	118,172	\$	125,735
6935.031	McNeil Road Transmission Main	72"	Northwest A/B/C	2025	\$	21,550	\$	22,929
844.001	East Austin - Parmer Lane TM	48/54"	North	1997	\$	6,657	\$	7,083

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date	Cost to Build	I	Interest Cost
City Construct	ion						
2088.001	Parmer Ln/How and Ln Transmission Main	48"	North	1989	\$ 3,590	\$\$	3,823
2090.005	Johnny Morris Rd 16" Water Main	16"	North	1999	\$ 462	2 \$	491
2939.001	Dessau Rd Transmission Main	16"	North	1990	S 934	\$ ۱	994
3779.001	Northtowin Transmission Main	48"	North	1988	\$ 610	\$	649 '
3783.001	East Austin Pump Station	55 MGD	North	1989	\$ 1,974	\$	2,101
4814.001	Northeast Area Water Improvements	48"	North	1999	\$ 1,718	\$\$	1,828
5028.006	RMMA Redevelopment North WPZ Imp Phase 3 (SER 2278)	30"	North	2012	\$ 5,585	; \$	5,942
6935.003	Boyce Lane Water Main	24"	North	2017	\$ 7,20*	\$	7,662
6935.021	Austin Film Society	16"	North	2012	\$ 1,017	'\$	1,082
6935.022	Springdale/290 Water Line Improvements	16"	North	2021	\$ 5,72	\$	6,088
6935.033	Johnny Morris/Hw y 290 Area Water Line Extensions	24"	North		\$ 1,309	\$	· -
6935.035	How ard Lane Water Main Extension	16"	North	2020	\$ 1.18	5	1,261
6935.039	Cameron Rd : Gregg Lane to School	12"/16"	North		\$ 1,634		1,738
7487.002	Braker Ln Extension from Dessau Rd. to Samsung Blvd (City Funded)	24"	North		\$ 35		-
1168.003	Ulrich to Green Transmission Main (Pipeline)	72"	Central		\$ 4,461		4,746
1168.003	Ulrich to Green Transmission Main (Pipeline)	72"	Central		\$ 1,137		· -
1168.004	Ulrich to Green Transmission Main (Lake Austin Tunnel)	72"	Central		\$ 150		-
1168.004	Ulrich to Green Transmission Main (Lake Austin Tunnel)	72"	Central		\$ 25,987		27,650
2097.001	Broy Transmission Main	36"	Central		\$ 5,005		5,326
2231.155	Broy Road Water Rehabilitation Phase 2	16"	Central		\$ 1,634	•	1,738
2231.157	Broy Rd Water Rehabilitation Ph 3 - FM 812 Maha Loop Water Rehab	16"	Central		\$ 2,590		2,756
2231.214	Boggy Creek at US 183 Water Line Replacement	24"	2 Central		\$ 2,386		2,539
2937.001	Springdale Rd 48" Transmission Main	48"	Central		\$ 6,118		6,510
2963.001	Moore's Crossing Reservoir & Transmission Main	36"	Central		\$ 2,402		2,556
3612.001	Green WTP Transmission Main	60"	Central		\$ 4,049		4,308
3617.001	Bluff Springs (Pilot Knob) Transmission Main	48	Central		\$ 7,466		7,944
3618.001	East Austin Transmission Main	66"	Central		\$ 8,203		8,728
3620.001	East Austin Reservoir	12 MG	Central		\$ 2,141	•	2,278
3626.001	Bluff Springs (Pilot Knob) Reservoir	10 MG	Central		\$ 2,139	•	2,276
3628.001	South Central Transmission Main	48"	Central		\$ 4,578		4,871
3761.001	Green WTP Transmission Main South	48"	Centrat		\$ 1,572		1,673
3769.001	Bluff Springs Transmission Main II	36"	Central		\$ 1,913	-	2,036
3871.001	E Ben White Blvd Transmission Main	24"	Central		\$ 3,506		3,731
3898.001	Pilot Knob Transmission Main Sector II	48"	Central		\$ 1,805		1,921
3901.001	Burelson Rd Transmission Main	48"	Central		\$ 478		508
4800.028	West Campus System Improvements	12"	Central		\$ 3,191		3,395
4800.033	West Campus Water & WW Improvements Area 5	12"	Central		\$ 4,703		5,005
5403.001	Rio Grande: from MLK to 24th St. Street Reconstruction & Utility Adjustment	16"	Central		\$ 1,113		1,185
6055.004	E 7th Street Improvments from Northwestern to Pleasant Valley	12"	Central	2013	\$ 729	\$	-

2

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date		iost to Build	Interest Cost
City Construct	tion						
6055.024	Second Street District Streetscape Street Recon. & Utility Adj. Phase 3	12"	Central	2017	\$	718	\$ 764
6684.001	MLK: Rio Grande to Lamar	12"	Central	2012	\$	826	\$ 878
6935.061	Filand Triangle Interconnect	24"	Central	2020	\$	750	\$ -
6959.001	Group 30: Ottorf St E/Congress Ave-IH35	24"/12"	Central	2015	\$	1,263	\$ 1,344
6960.001	Brazos St/Cesar Chavez-11th St E	12"	Central	2014	\$ ·	1,590	\$ 1,692
6961.002	Colorado St. Reconstruction and Utility Adjustments from 7th St to 10th St	12"	Central	2018	\$	720	\$ 766
8158.001	3rd St. Reconstruction Phase 3 - Congress Ave. to Guadalupe St.	12"	Central	2017	\$	110	\$ •
8158.002	3rd St Phase 2 - Congress Ave to Brazos St & San Jacinto Bivd to Trinity St	12"	Central	2017	\$	117	\$ 125
8158.003	3rd St. Phase 1 - Brazos St. to San Jacinto Blvd.	12"	Central	2015	\$	252	\$ 268
3766.001	S #+35 Transmission Main	36"	South	1988	\$	2,812	\$ 2,992
3876.001	Slaughter Ln Transmission Main	24/30"	South	1992	\$	2,673	\$ 2,845
6935.059	Slaughter Lane Waterline Extension	16"	South	2017	\$	149	\$ -
6937.001	S IH-35 Transmission Main	36"	South	2010	\$	17	\$ 18
6937.003	So. IH35 W/WW Infrastructure Improvs PMC .	PMC	South	2013	\$	8,510	\$ 9,055
6937.005	S I-35, Filot Knob Pump Station	22 MGD	South	2016	\$	10,488	\$ 11,159
6937.006	S I-35, Segment 21 - Filot Knob Reservoir 48-inch Water Main	48"	South	2013	\$	660	\$ 703
6937.008	S F35, Segment 6 - I 35 South of Onion Creek, 36-Inch Water Main	36"	South	2012	\$	1,459	\$ 1,552
6937.009	S +35, Seg. 13/14 - Pleasant Valley Ext., Rinard Ork to E Slaughter Ln, 42	42*	South	2013	\$	1,837	\$ 1,955
6937.010	S I-35, Segment 17/18/19 - Slaughter Ln Ext to Thaxton, 48-inch Water Main	48"	South	2016	\$	3,200	\$ 3,404
6937.011	S I-35, Segment 4 - I 35, N of FM 1626 to Onion Creek, 36-Inch Water Main	36"	South	2012	\$	1,358	\$ 1,445
6937.012	S F35, Segment 7 - 135, north of FM 1327, 42-Irich Water Main	42"	South	2013	\$	2,014	\$ 2,143
6937.013	S F35, Segment 9.0 - FM 1327, I 35 to Bradshaw Rd, 42-Inch Water Main	42"	South	2016	\$	2,935	\$ 3,123
6937.014	S I-35, Segment 9.1 - FM 1327 to Bradshaw Road north of FM 1327	42*	South	2016	\$	3,126	\$ 3,326
6937.015	S H-35 Transmission Main, Segment 18&19 - E Slaughter Ln, Marble Creek to Thaxton	48"	South	2010	\$	317	\$ 337
6937.016	S F35, Seg. 20.1/21 - Wm Cannon from McKinney Falls to Pilot Knob WTM	48"	South	2016	\$	3,265	\$ 3,474
6937.017	S I-35, Seg. 2/5 - I 35 Slaughter and Onion Crk Crossings, 36-In Water Main	36"	South	2016	\$	7,998	\$ 8,509
6937.018	S I-35, Segment 8 - I 35 Crossing North of FM 1327, 42-In Water Main	42"	South	2012	\$	1,565	\$ 1,666
6937.019	S I-35, Segment 20.0 - McKinney Falls Pkw y, Thaxton to Wm Cannon, 48-Inch W	48"	South	2014	\$	3,414	\$ 3,633
6937.020	S F35, Segment 15 - Goodnight Ranch Ph I, 48-Inch Water Main	48"	South	2011	\$	1,011	\$ 1,076
6937.021	S F35, Segment 1 - 135 Slaughter Ln to Slaughter Ork, 36-in Water Main	36"	South	2016	\$	2,917	\$ 3,104
6937.022	S I-35, Seg. 11/12 - S. Fleasant Val. Ext. at Legends Way, 42-In Water Main	42"	South	2016	\$	1,924	\$ 2,047
6937.023	S I-35, Segment10 - Bradshaw Rd, S of River Plantation Dr, 42-In Water Main	42"	South	2016	\$	1,702	\$ 1,811
6937.024	S I-35, Segment 16 - Goodnight Ranch Phase II, 48-Inch Water Main	48"	South	2012	\$	1,360	\$ 1,447
6937.030	S II+35 Transmission Main, E Slaughter Ln ROW Acquisition	Sites of Seg. 17,18,19	South	2011	\$	496	\$ 527

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date	Cost to Build	I	Interest Cost
ity Construc	tion	,	۰.	•			
3825.001	Southwest B Camp Ben McCullough Transmission Main	16"	Southwest B	1992	\$ 504	\$	536
3859.001	Windmill Run Southwest B Transmission Main	36"	Southwest B	1990	\$ 1,962	\$	2,087
4800.005	New Thomas Springs Reservoir	1.25 MG	Southw est C	2001	\$ 2.322	\$	2,471
4800.005	New Thomas Springs Reservoir	1.25 MG	Southwest C	2001	\$ 2,322 \$ 25	s	2,47
4800.000	Southwest C Pressure Zone Pump Station	8.2 MGD	Southwest C	2006	\$ 130		-
4800.010	Southwest C Pressure Zone Pump Station	8.2 MGD 8.2 MGD	Southwest C	2006	\$ 5,731	э \$	6,098
4800.010	Southwest C Pressure Zone Transmission Main Ph 2	30"	Southwest C	2000	\$ <u>5,751</u>	\$	0,080
4800.021	Southwest C Pressure Zone Transmission Main Ph 2	30"	Southwest C	2007	\$ 2,057	\$	2,188
4800.021	Southwest C Pressure Zone Transmission Main Ph 2	30"	Southwest C	2007	\$ 2,057 \$ 5,546	э 5	4,100
5335.001	Ullrich WTP 160 MGD Expansion	67 MGD Exp.	Ullrich Service	2011	\$ 109,123		116,107
5335.002	Ullrich Water Treatment Plant 160 MGD Expansion - Low Service Pump Station	67 MGD Exp.	Ullrich Service	2006	\$ 2,567	\$	2,73
6683.002	Water Treatment Plant No. 4	50 MGD	Plant 4 Service	2017	\$ 2,053	\$	-
6683.002	Water Treatment Plant No. 4	50 MGD	Plant 4 Service	2017	\$ 99,682	\$	106,062
6683.007	Water Treatment Plant No. 4 - Property Fencing	50 MGD	Plant 4 Service	2009	\$ 359	\$	382
6683.009	Water Treatment Plant #4-Environmental Commissioning	50 MGD	Plant 4 Service	2017	\$1	\$	-
6683.009	Water Treatment Plant #4-Environmental Commissioning	50 MGD	Plant 4 Service	2017	\$ 2,831	\$	3,012
6683.010	WTP 4-Plant Site Storm Water Facilities	50 MGD	Plant 4 Service	2011	\$ 3,327	\$	3,540
6683.013	WTP4 Raw Water Pump Station Excavation and Stormwater Facilities	50 MGD	Plant 4 Service	2012	\$ 3,435	\$	3,654
6683.014	Water Treatment Plant No. 4 Raw Water Pump Station Facility	50 MGD	Plant 4 Service	2014	\$ 7,243	\$	7,700
6683.018	Value Engineering	50 MGD	Plant 4 Service	2011	\$ 57,4	\$	610
6683.019	Water Treatment Plant #4 - Construction Manager at Risk	50 MGD	Plant 4 Service	2015	\$ 26,451	\$	-
6683.019	Water Treatment Plant #4 - Construction Manager at Risk	50 MGD	Plant 4 Service	2015	\$ 262,982	\$	279,812
6683.020	WTP4 Bullick Hollow Roadway improvements	50 MGD	Plant 4 Service	2011	\$ 1,081	\$	1,150

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date		ost to kuild	terest Cost
Developer Reimbursements							
3353.022	AMAX Self-Storage Reimbursement	24"	Northwest C	2007	\$	169	\$ 180
3353.027	Canyon Creek Subdivision Reimbursement	24"	Northw est C	2002	\$	1,100	\$ 1,170
3041.001	Davis Springs Service Extension Reimbursement	24"	Northwest B	1997	\$	941	\$ -
3353.018	Avery Ranch Service Extension	24/36/48", 3 MG	Northwest B	2015	\$	3,756	\$ • .
3353.018	Avery Ranch Service Extension	24/36/48", 3 MG	Northwest B	2015	\$	9,760	\$ 10,385
3353.038	Stone Hedge Service Extension	24"	Northwest B	2011	\$	8,931	\$ 9,502
3353.094	Pearson Ranch - RRISD (SER 2869 and 2870)	24"	Northw est B	2019	\$	2,638	\$ 2,807
3353.019	IBM/Tivoli Service Extension	16"	Northwest A	2002	\$	341	\$ •
3353.032	How ard Lane Service Extension	24/16"	Northwest A	2000	\$	220	\$
3353.065	Schultz 45 Acre Tract WaterWells Branch Commerce Park	24*	Northw est A	2013	\$	304	\$ 323
2090.003	Decker Lake 24-inch Woodlands Transmission Main (SER 1745)	24"	North	1996	\$	1,148	\$ 1,221
3353.007	Jourdan's Crossing Service Extension	24"	North	2001	\$	194	\$ - '
3353.009	Dell 24-inch Water Reimbursement	24"	North	1998	\$	1,769	\$
3353.028	Wild Horse Ranch	24/36"	North	2018	\$	6,015	\$ 6,400
3353.033	Proneer Crossing Service Extension (SER 1825), Ph II	24"	North	2004	\$	1,243	\$ 1,323
3353.042	Parmer Park Service Extension	24"	North	2002	\$	871	\$ 926
3353.099	Pioneer Hill	16"	North	2015	\$	1	\$ 1
5028.002	Robert Mueller Municipal Airport Reimbursement	16/24"	North	2007	\$	1,119	\$ 1,190
5028.004	Mueller Water Improvements Reimbursement (SER 2277), Ph II	16"	North	2008	\$	6,106	\$ 6,496
5815.002	Triangle - Infrastructure Incentives	16/24"	North	2005	\$	413	\$ 440
3353.049	Robertson Hill Development	16"	Central	2008	\$	643	\$ 685
. 3353.052	Det Valle Junior High Number 2	24"	Central	2005	\$	349	\$ 371
3353.D59	Pearce Lane Tract	36"	Central	2004	\$	2,598	\$ 2,765
3353.069	University Neighborhood Overlay District	24*	Central	2007	\$	1,828	\$ 1,945
3353.095	Whisper Valley_Indian Hills	48°	Central	2024	\$	2,283	\$ 2,429
3353.096	Formula One United States	24/36"	Central	2014	\$	4,430	\$ 4,714
3353.100	71 Commercial	24"	Central	2014	\$	1.098	\$ 1,168
, 3353.106	Eastside Village (SER-3393) 12- Inch Water Line Improvements	12"	Central	2015	\$	Ó	\$ 0
3353.062	Zachary Scott Tract Service Extension	24"	South	2009	\$	1,240	\$ 1,320
3353.072	Goodnight Ranch	24"	South	2016	\$.	2,442	\$ 2,599
3353.074	Alexan Onion Creek	24/36"	South	2010	\$	884	\$ 940
3353.025	Travis County West Developer Reimbursement Southwest C	2.1 MGD PS, 16"	Southw est C	2003	\$	1,680	\$ 1,788
3353.008	Lantana Service Extension Developer Reimbursement Southwest B&C	14 MGD PS	Southwest B/C	2002	\$	3,254	\$

Subproject / Map ID	Project Description	Size	Pressure Zone	Completion Date	Cost Buil			terest Cost
Roadway Utility	r Betterments							
3212.064	Harris Branch Parkway/Cameron Rd. Water Lines Relocation	12"	North	2012	\$	168	\$	178
3212.123	CTRMA/TxDOT Utility Relocation: US290E Manor Expressw ay	16"/24"	North	2016	\$	525	\$	-
3212.123 3212.151	CTRMA/TxDOT Utility Relocation: US290E Manor Expressway TxDOT IH 35 Waterline Relocation: Rundberg To 290 East Segment	16"/24" 12"	North North	2016 2019	\$ \$	483 597	\$ \$	514 -
3212.133 - 3212.133	Travis County Utility Relocation: FM 969 (Phase I): Decker Lane to FM 973 Travis County Utility Relocation: FM 969 (Phase I): Decker Lane to FM 973	16" 16"	Central Central	_ 2019 2019		,739 ,004	\$ \$	1.068
3212.136 3212.136	TxDOT Utility Relocation: US 183 Bergstrom Exprw ay (US 290 to SH 71) TxDOT Utility Relocation: US 183 Bergstrom Exprw ay (US 290 to SH 71)	24"/16"/12" 24"/16"/12"	Central Central	2018 2018 2018	\$ 3	,349 ,966	-	5,284
3212.104	Manchaca Rd-Ravenscroft to FM 1626	16"	South	2013	\$ 2	,295	\$	2,442

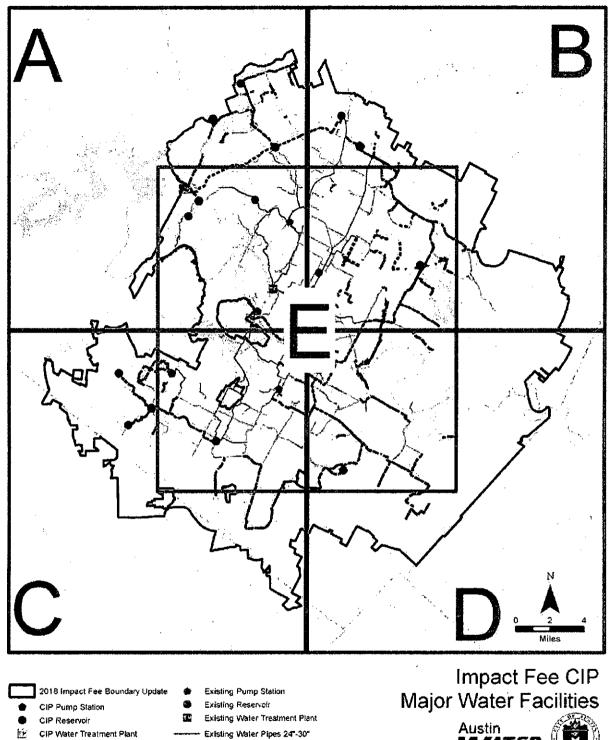
Contract Revenue Bond Projects

82.224	82/22-40 How ard Lane Reservoirs (NCAGC-MUD)	20 MG	North	1987	\$	3,824	\$	4,069
1001.001	Davis Lane Reservoir SO-MUD (Add 10 to 20 MG)	10 MG	South	1988	\$	1,819	\$	1,935
85.2277	85/22-77 Southwest B 36" Transmission Main (CC#3-MUD)	36"	Southwest B	1988	\$	1,130	s	1,202
85.2278	85/22-78 Southwest B Rump Station (CC#3 MUD)	22 MGD	Southwest B	1988	\$	2,290	\$	2,437
1000.001	Southwest B Reservior #1 (CC#3-MUD)	2 MG	Southw est B	1988	\$	1,903	\$	2,025
1988.0628	Southwest B 16" Trans Main (CO#3-MUD)	16"	Southw est B	1988	\$	197	\$	210
	Southwest A Site Development CC#3-MUD	n/a	Southwest A/B/C	1988	\$	266	\$	283
85.2265	85/22-65 Davis Lane Pump Station (VWO-MUD)	56 MGD	Southwest A/B/C	1988	\$	5,758	\$	6,127
85.2276	85/22-76 SWA Storage Tank (Slaughter Lane, MR-MUD)	6 MG	Southwest A/B/C	1988	\$	1,256	\$	1,336
85.2279	85/22-79 SWA TM Phases 1,1A,2,3,4A,4B (MR-MUD)	48"	Southwest A/B/C	1987	\$	4,501	\$	4,789
1987.0508	Davis Lane TM (PS discharge, SO-MUD)	48"	Southwest A/B/C	1987	\$	220	\$	234
1987.0627	SWA 48" Interconnector (MR-MUD)	48"	Southwest A/B/C	1987	5	1,016	\$	1,081

CIP-8

\$1,118,414 \$1,124,924 Totals Total Cost to Build w / Interest

\$2,243,339



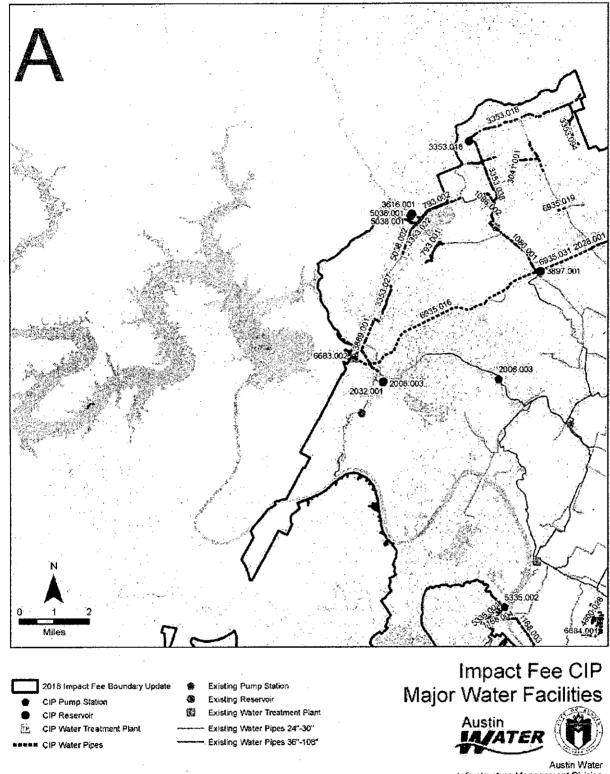
..... CIP Water Pipes

- Existing Water Pipes 24-30" Existing Water Pipes 36"-108"

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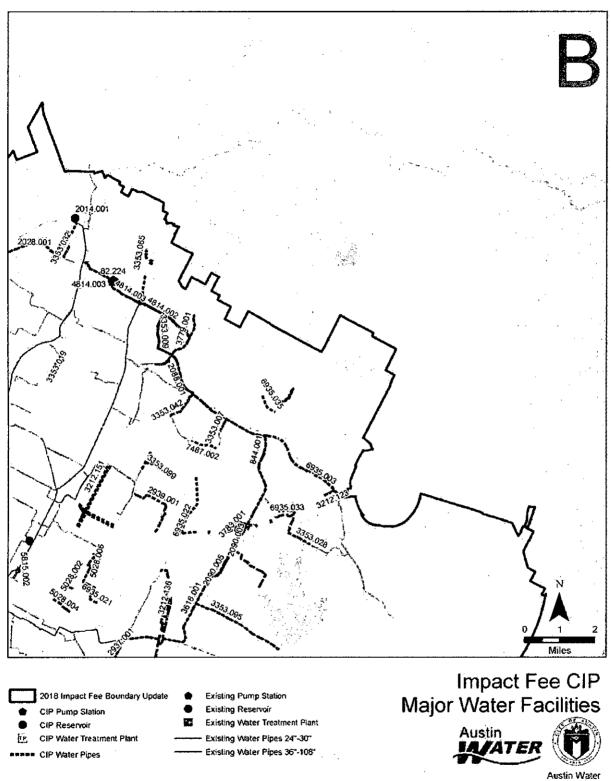


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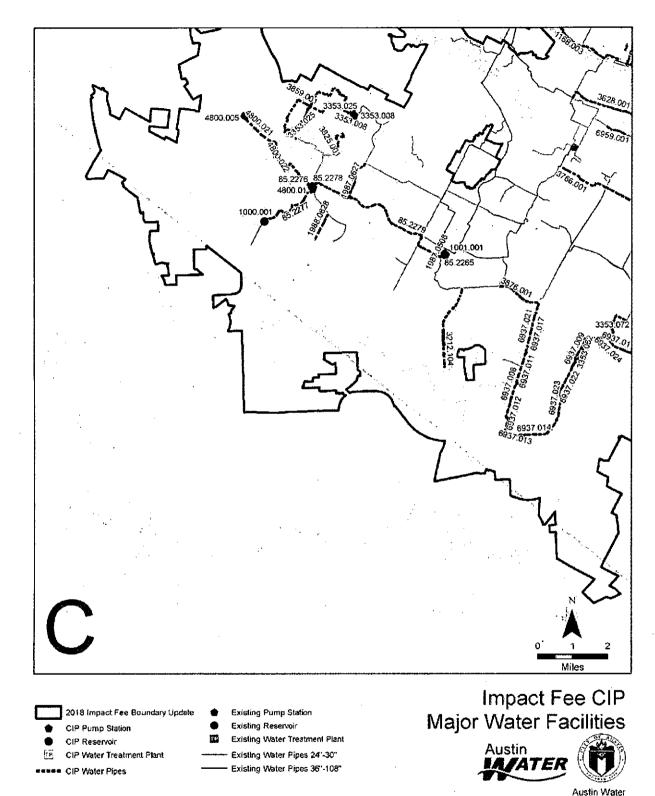
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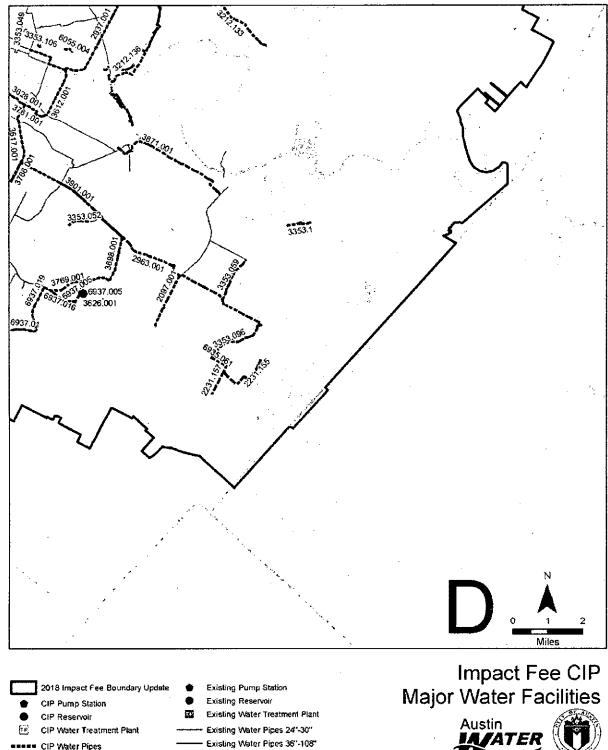
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Map 1C CIP-12

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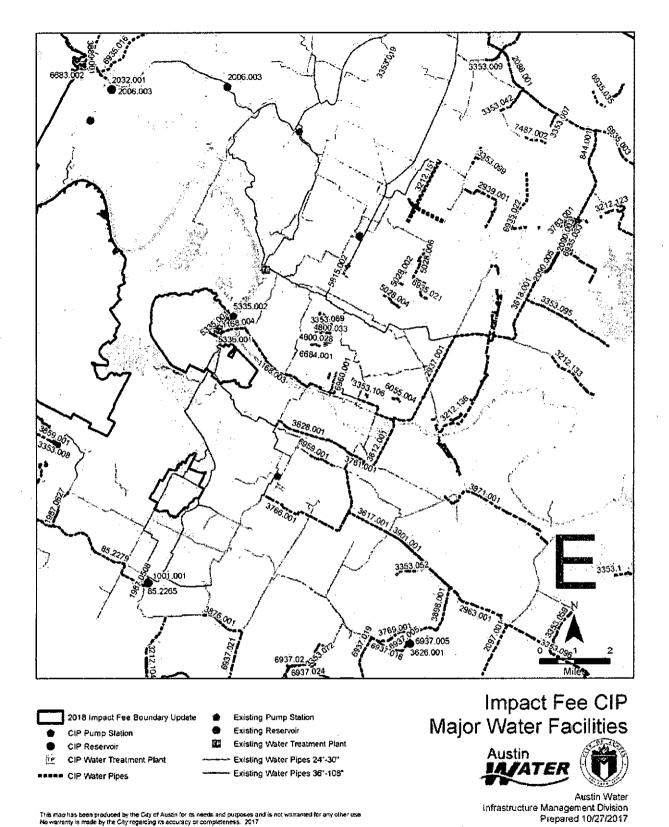
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CIP Water Pipes

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Austin Water Infrastructure Management Division Prepared 10/27/2017



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Map 1E CIP-14

Table 2 Wastewater Impact Fee Projects (Costs in 1000s)

SubProjectID / Map ID	Project Description	Size	Drainage Basin	Completion Date	Cost to Build	Intere Cost
ty Construction						
3168.076	South Area Lift Station Improvements: Barton Creek Plaza	1MGD	Barton	2019	1,125	0
3168.139	Travis Country Lift Station Improvement - Pump Installation	2400 gpm	Barton	2017	0	0
3168.109	Marbridge Lift Station Improvements	430 gpm	Bear	2016	27	0
3168.138	Southland Oaks Wet Well Conversion	2100 gpm	Bear	2018	100	0
3168.057	Rock Harbour Lift Station Improvements	6200 gpm	Bul	2021	2,628	2,796
3168.085	Northwest Lift Station Improvements: Boulder Lane Lift Station	14"FM/1950gpmLS	Bull	2023	1,434	0
6943.022	Canyon Creek Interceptor - Upsize	18"/24"	Bull	2019	105	0
6943.029	Barrington Way Forcemain Reroute and Gravity System Upgrade	15"	Bull	2017	2,616	0
6943.032	Four Points Center Forcemain Improvements	12" FM	Bull	2018	665	708
6943.041	Barrington Oaks Downstream Gravity Improvements Phase 2	15"	Bull	2024	4,020	4,27
6943.025	Hergoiz-Lockheed Wastewater Improvements	48"	Carson	2020	2,662	2,83
6943.034	Carson Creek Basin Wastewater Line Improvements	18"/24"	Carson	2019	2,558	2,72
3168.054	Govalle Wastewater Flow Diversion	36" FM	Colorado River	2020	2,917	0
4769.008	Wildhorse Northwest Interceptor Phase 2	12"/18"/21"/24"/27"/30"	Decker/Gilleland	2013	2,548	0
3168.037	Pearce Lane Lift Station Upgrade (900 to 1800 gpm)	900 gpm exp	Dry South	2014	54	0
3168.059	South Area Lift Station Improvements: Pearce Lane Upgrade & New Force Main	4500 gpm	Dry South	2021	2,970	3,16
4769.002	NE AREA INTERIM WWTP	20"FM/30"gravity/0.75 MGD plant	Gilleland	2008	8,752	9,31
4769.006	Northeast Service Area North Interceptor (Wildhorse North Interceptor)	8"/18"/36"	Gilleland	2005	2,329	2,47
4769.015	Wildhorse North Interceptor Ext. No. of 290	42"	Gilleland	2015	3,593	3,82
7265.004	Northeast WWTP Expansion to 1.5 MGD	0.75 mgd exp	Gilleland	2021	7,705	8,19
5481.001	Downtown Wastewater Tunnel	42"/48"/54"/78"/90"	Govalle/SAR	2015	49,474	52,6
5481.001	Downtown Wastewater Tunnel	42"/48"/54"/78"/90"	Govaile/SAR	2015	8,205	0
6943.043	Harpers Branch Creek Interceptor	15" or 18" depending on slope	Harpers Branch	2019	2,596	0
3353.102	Fort Dessau	18"/24"/FM/750gpmLS	Harris Branch	2016	1,417	1,50
4769.010	Harris Branch Interceptor Lower A	12*/30*/36*	Harris Branch	2018	7,280	7,74
7265.002	Purchase of Dessau Utilities	.5 mgd plant/4100 gpm LS/16" FM/284 gpm LS/6"FM	Harris Branch	2006	2,061	0
7265.014	Dessau WWTP Expansion to 0.99 MGD	.49 mgd EXP	Harris Branch	2021	5,345	5.68
4769.018	Harris Branch Interceptor Lower B	36"	Harris Branch/Gilleland	2016	872	927
4769.018	Harris Branch Interceptor Lower B	36"	Harris Branch/Gilleland	2016	5,533	0
6943.004	Parmer Lane Interceptor	42"	Lake Creek/Rattan	2020	32,531	34,6
6943.004	Parmer Lane Interceptor	42"	Lake Creek/Rattan	2020	1,679	D
4926.021	ACWP - Little Walnut/Buttermilk @ 290 & 183	42-	Little Walnut	2010	1,931	2,05
4926.023	ACWP-Little Walnut/Buttermilk @ Centre Creek	42*	Little Walnut	2009	4,732	5.03
4926.028	ACWP - Little Walnut/Butternilk - South	8"/42"/60"	Little Walnut	2009	11,069	11,73
4926.028	ACWP - Little Walnut/Buttermilk - South	8"/42"/60"	Little Walnut	- 2009	5,753	0

CIP-15

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SubProjectID / Map ID	Project Description	Size	Drainage Basin	Completion Date	Cost to Build	Interest Cost
City Construction						
3168.043	Boggy Creek LS Upgrade	25 MGD	Lower Boggy	2016	4,048	4,307
3168.077	Gonzales Lift Station Abandonment	18"	Lower Boggy	2018	739	D
4197.001	ONION CRK INTROPTR	54"	Onion	1988	1,965	2,090
4292.001	ONION CK INTER EXIST-BOGGY CK	54"	Onion	1989	2,351	2,501
6937.003	So. IH35 W/WW Infrastructure Improvs PMC	PMC	Onion	2013	3,752	3,992
6937.003	So. IH35 W/WW Infrastructure Improvs PMC	PMC	Onion	2013	644	0
6937.025	S F35, Onion Creek Wastewater Interceptor - Rinard to Slaughter (N Tunnel)	54"	Onion	2017	13,501	14,366
6937.026	S 1-35, Onion Creek Golf Course WW Int - I 35 to Rinard (South Tunnel)	42"	Onion	2016	10.849	11,544
6937.027	S I-35, Onion Creek Wastewater Tie-in Line - Phase 1	24"	Onion	2012	2,409	2,564
6943.035	FM 973 Wastewater Line Improvements	15"/18"	Onion	2018	4,463	D
4926.097	ACWP Pedemales (Line Y only)	36"	Pedemales	2012	4,846	5,156
3353.062	Zachary Scott Tract SER (both city const. and dev design)	36"	Rinard	2012	5,937	6,317
3353.062	Zachary Scott Tract SER (both city const. and dev design)	36"	Rinard	2012	2,310	0
3333.001	SAR Expansion & Improvements Project (50 to 75 mgd)	25 mgd exp	SAR WWTP	2006	19,067	20,287
3333.005	SAR Lift Station Interconnect Tunnel	25 mgd exp	SAR WWTP	2006	3,941	4,194
3333.006	SAR Train C South	25 mgd exp	SAR WWTP	2006	23,217	24,703
3333.006	SAR Train C South	25 mgd exp	SAR WWTP	2006	6,170	0
3333.007	SAR Train C North	25 mgd exp	SAR WWTP	2006	25,606	27,244
3333.007	SAR Train C North	25 mgd exp	SAR WWTP	2006	2,826	0
3333.008	SAR New Electrical Substation and Miscellaneous Areas	25 mgd exp	SAR WWTP	2007	13,238	14,085
6943.055	Southland Oaks Wastewater Improvements	30"	Slaughter	2019	1,027	1,093
6943.045	Upper Boggy Creek Wastewater Line Improvements	18"	Upper Boggy	2022	1,400	0 .
4926.037	ACWP - Shoal Creek WW Improvements / 29th to 34th St.	8"/12"/66"	Upper Shoal	2006	12,270	13,055
6943.053	 Burrell Drive Wastewater Improvements 	12"	Upper Shoal	2020	1,148	1,222
3168.039	Waters Park Wastewater Relief Main	36"	Walnut	2018	7,228	7,690
3023.003	Walnut Creek WWTP	15 mgd exp	Walnut WWTP	2004	20,474	21,784
3023.017	Walnut Creek WWTP 75 MGD Upgrade	15 mgd exp	Walnut WWTP	2004	17,609	18,735
3023.017	Walnut Creek WWTP 75 MGD Upgrade	15 mgd exp	Walnut WWTP	2004	10,002	0
4579.001	WALNUT CREEK WWTP, PH III	15 mgd exp	Walnut WWTP	2004	15,483	16,474
6943.026	Barton Creek Plaza Lift Station Downstream Improvements	15 [*]	West Bouldin	2019	3,199	0
4221.001	WILLIAMSON CREEK INT PH I	42*	Williamson	1989	820	872
4534.001	OAK HILL BR. OF WMSON.CRK.INTER	30"	Williamson	1989	1,533	1,631
6943.031	Williamson Creek Wastewater Interceptor	66"/72"	Williamson	2023	42,341	45,051

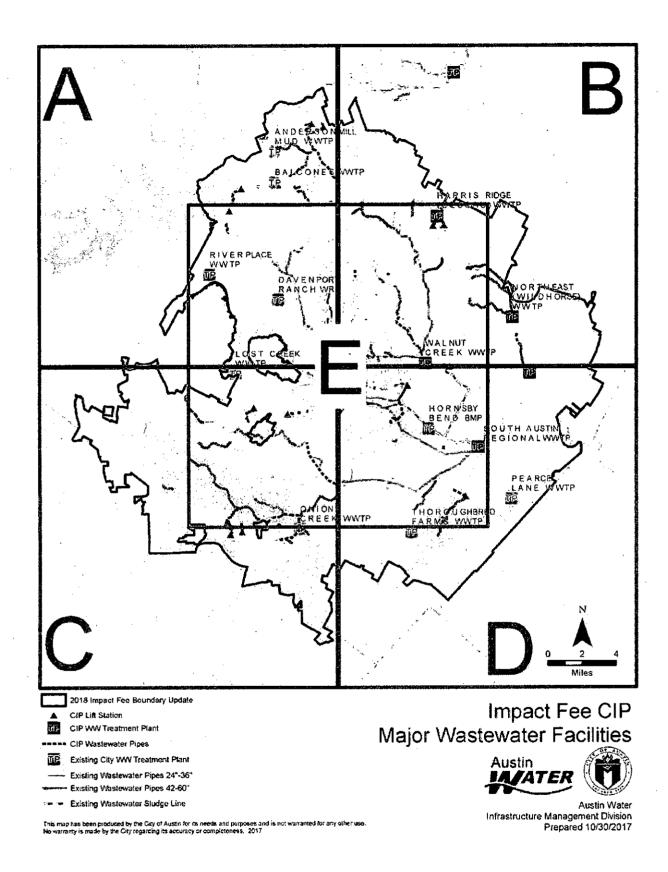
SubProject/D / Map ID	Project Description	Size	Drainage Basin	Completion Date	Cost to Build	Interest Cost
•						
Developer		•				
Reimbursements						
3353.054	Marbridge Farms Wastewater	350 gpm LS	Bear	2007	217	231
3353.071	Rancho Alto Ventures	481 gpm LS, FM	Bear	2008	442	470
3351.001	Cullen/Southland Acquisition	12"FM/18"	Bear/Slaughter	1997	761	0
3168.024	Balcones LS Relief - Phase I & 3A	8*	Bull	2005	612	651
3353.013	Metro Center Services Extension (#1537)	24"	Carson	2000	151	0
3353.028	Wild Horse Ranch	8"/12"/18"/21"/24"/27"/36" ·	Decker/Gilleland	2018	4,076	4,337
3353.096	Formula One United States	30	Dry South	2016	6,267	0
3353.103	Moore's Crossing MUD Lift Station Interceptor WW Service Extension Plan	21*	Dry South	2017	75	80
3353.105	Finspeed 30-Inch Offsite Wastewater Line	30*	Dry South	2018	303	322
3353.067	Austin Blue Sky Investments, Inc. SER 2271 (Quickstream Lift Station)	 12"Gravity/12"FM/1000gpmLS 	Elm Creek	2006	680	724
3353.076	Wildhorse Addition	12"/18"	Gilleland	2009	793	843
3353.077	Scots Glen	18"	Gilleland	2009	1	1
3353.077	Scots Glen	18"	Gilleland	2009	844	Ó
3353.095	Whisper Valley Public Improvement District	30"Gravity/LS/0.1 mgd TP	Gilleland	2024	2,611	2,778
3353.101	Bellingham Meadows/Wm. Wallace Way Lift Station Wastewater Relief Main	15"/18"	Gilleland	2017	2,339	2,489
3041.001	Davis Springs Reimbursement	21"Gravity/16"FM/3600gpmLS #1	Lake Creek	1996	1,476	0
3041.001	Davis Springs Reimbursement	21"Gravity/16"FM/3600gpmLS #1	Lake Creek	1996	566	603
3168.024	Balcones LS Relief - Phase I & 3A	8"/12"/18"/24"	Lake Creek	2005	414	440
3168.024	Balcones LS Relief - Phase I & 3A	8"/12"/18"/24"	Lake Creek	2005	749	0
3168.029	Balcones LS Relief - Phase IIIC	18"/24"	Lake Creek	2002	1,577	1,678
3353.091	Pearson Avery Ranch	12/24/FM/1100gpmLS	Lake Creek	2016	2.827	3,008
3353.093	Lakeline Condos-Gencap Partners SER 2846	8"/15" gravity/10"FM/1100gpmLS	Lake Creek	2014	1,341	1,427
5028.005	RMMA Redevelopment South WW Improvements (SER 2281)	15"	Lower Tannehill	2008	1,301	1,385
3353.049	Robertson Hill Development	12"	Lower Walter	2008	693	738
3353.084	Legends Way	30"	Rinard	2016	1,905	2,027
3353.016	Akin High School Reimbursement	18"	Slaughter	2000	459	0
5028.003	RMMA-Airport Rd WW Improvs Phase Two (SER 2279)	15"/18"/24*	Upper Boggy	2009	2,011	2,140
5028.007	RMMA Redevelopment Catellus SER #2263	12"/15"	Upper Boggy	2012	447	476
5028.007	RMMA SE WW Improvements (SER 2282)	15"/30"	Upper Tannehill	2012	2,539	0
5028.007	RMMA SE WW Improvements (SER 2282)	15"/30"	Upper Tannehill	2012	3,091	3,289
3353.007	Jourdan's Crossing Service Extension (Samsung)	12"/18"/36"/48"	Walnut	1998	2,406	0
3353.011	Oell 18	18"	Walnut	2000	652	0
3353.112	Del Curto Road Wastewater Improvements (SER-3486R2)	15"	West Bouldin	2017	0	0
3353.006	Travis Country Service Extension	21*	Williamson	1997	41	43

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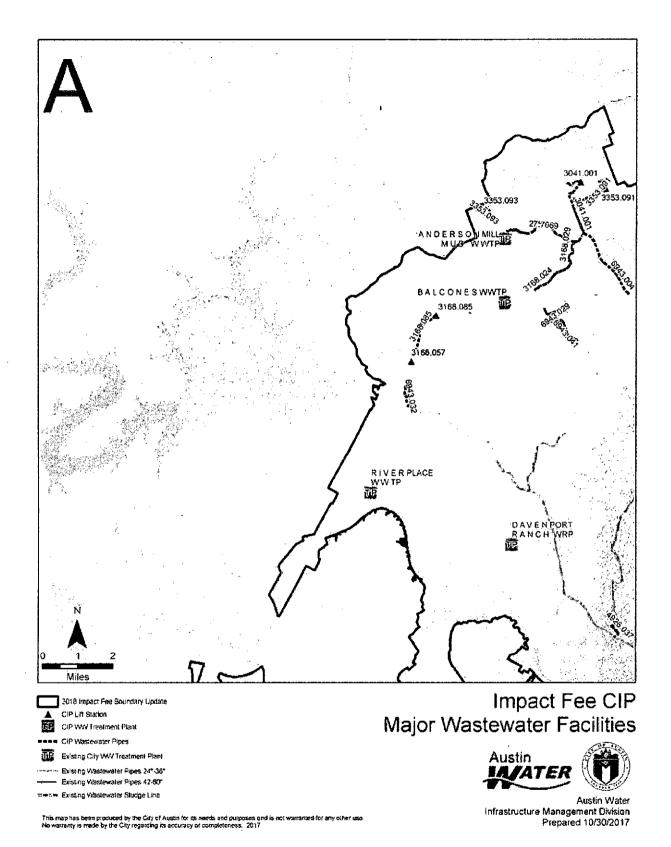
subProjectID / Map (D	Project Description	Size	Drainage Basin	Completion Date	Cost to Build	intere <i>s</i> t Cost
Capital Investment in Brushy Creek Regional Wastewater System	· ·					
6943.033 7265.040	Brushy Creek WW Improvements-Southwest Interceptor/Lake Creek Interceptor Brushy Creek Regional Wastewater Treatment Plant Expansion Participation	36" 3 mgd exp	Brushy Creek Brushy Creek	2016 2023	998 20,700	1,062 22,025
Roadway Utility Betterment Projects						
3212.151 3212.057 3212.136 3212.137 3212.137 3212.116	TxDOT IH 35 Waterline Relocation: Rundberg To 290 East Segment TxDOT Utility Relocation: FM 973 @ Colorado River TxDOT Utility Relocation: US 183 Bergstrom Exprway (US 200 to SH 71) TxDOT Utility Relocation: SH 71: East of US 183 to Onion Crk-Toll Road Hwy 200 & Airport Blow WWL Relocation	8712"/19" 10" FM 24"/30" 15" 15"	Buttermilk Colorado River Lower Boggy/Colorado/Carson Onion Upper Tannehill	2019 2017 2019 2018 2018	310 1,557 5,260 1,584 390	0 1,656 5,597 1,685 415
Contract Revenue Bond Projects			·			
Circle C MUD #3 Slaughter Creek Facilities 8223.131 8223.132 Circle C MUD #4 Slaughter	North Bank Upper Slaughter Cr.Int. A&B CC#3 MUD Slaughter Creek Interceptor Phases 1, 2A & 2B CC#3 MUD	· 36" 48'/54"	Slaughter Slaughter	1988 1990	,1,650 9,280	1,756 9,874
Creek Facility 89.0506 Maple Run at Austin MUD	South Branch Interceptor and Extension CC#4 MUD	21"/30"	Slaughter	1988	1,295	1,378
Williamson Creek Facility 85.0777 North Austin MUD #1	Williamson Creek 30" WW Interceptor MR-MUD	30"	Williamson	1989	500	532
27.7659 North Central Austin Growth Corridor MUD #1 Walnut Creek	Lake Creek Wastewater System Improvements Contracts 1&2 (LS at capacity)	30"/36"/42"/48"	Lake Creek	1989	3,627	3,859
Facilities 23.7642 Southland Oaks MUD Onion	Upper Walnut Creek Int Phases 3A,38,485 NCAGC-MUD	12"/16"/30"/36"/42"/48"	Walnut	1987	6,253	6,653
Creek Facility 87.0704 Southland Oaks MUD Slaughter Creek Facilities	Onion Creek Int Phase 3 (Slaught, To Boggy) SO-MUD	54"	Onion	1988	2,935	3,123
8223,132 8223,134 8223,134 8223,135 Village at Western Oaks MUD	Slaughter Creek Interceptor 1 & 2 SO-MUD Slaughter North Branch Interceptor SO-MUD Slaughter Tunnet SO-MUD	48" 30" 54"	Slaughter Slaughter Slaughter	1990 1990 1988	701 1,595 3,442	746 1,697 3,662
88.0553 85.0836	North: Williamson Creek Int & Easements VWO MUD South Williamson Trunk Phases 1 and 2 VWO-MUD	42" 15"/24"	Williamson Williamson	1989 1989	3,097 919	3,295 978
				Totals	586,458 Total Cost	533,424

Total Cost to Build w/interest 1,119,882

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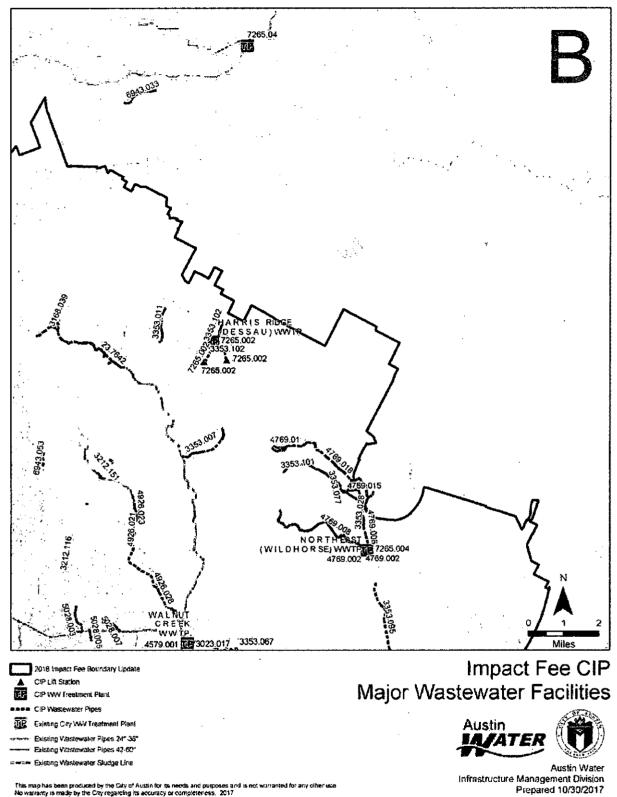


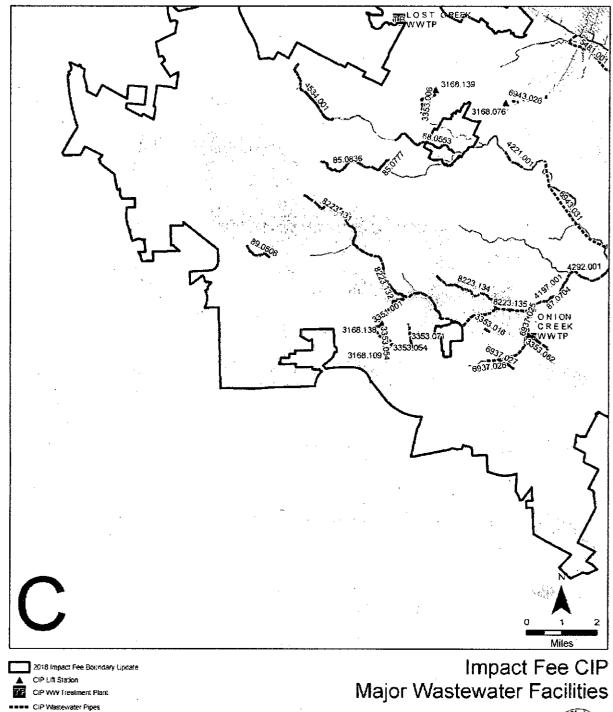
Map 2 CIP-19



Map 2A CIP-20







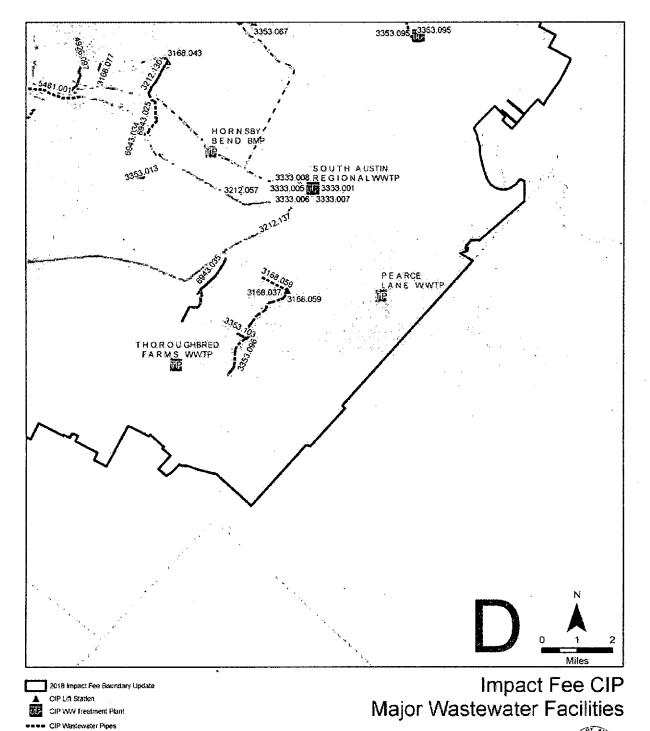


Austin Water Infrastructure Management Division Prepared 10/30/2017

Map 2C CIP-22

Existing City WW Treatment Plant Existing Wastewater Pipes 24*-36* Existing Wastewater Pipes 42-60* === Existing Wastewater Studge Line

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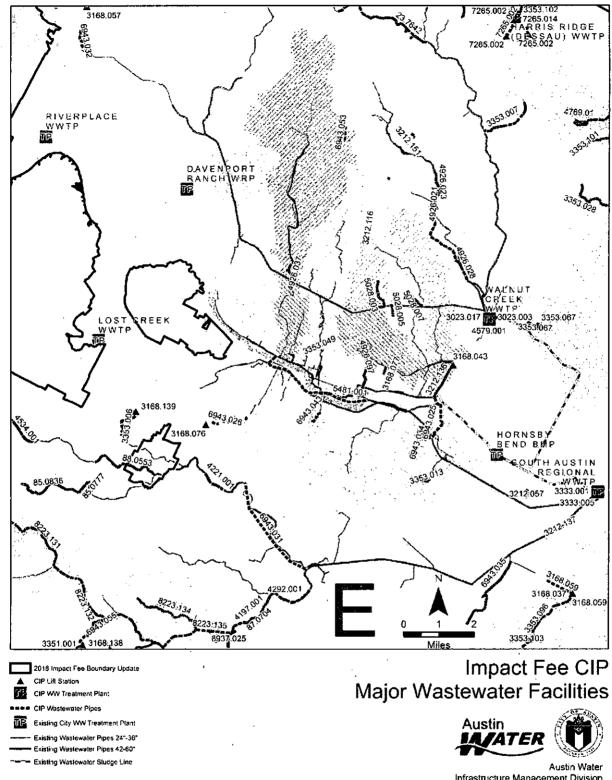


Austin Water Infrastructure Management Division Prepared 10/30/2017

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Existing City WW Treatment Plant
 Existing Wastewater Pipes 24"-36"
 Existing Wastewater Pipes 42:60"
 Existing Wastewater Skidge Line

Map 2D CIP-23



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Infrastructure Management Division Prepared 4/2/2018

 Table 3 Long-Range Future Growth Projects in the Capital Improvements Program

 Capital Improvement Projects Targeted to Meet Long-Range Future Needs

 Timing uncertain, or beyond 2025, or not serving new users in 10-year planning horizon

WATER			(Costs in 1000s)
DEPT	SUBPROJECT ID	SUBPROJECT NAME	ĆOST
2207	2006.013	Far South Pressure Zone Pump Station	\$5,100
2207	2006.031	Martin Hill Pump Station	\$24,757
2207	2127.016	Southwest Parkway SWB Elevated Reservoir	\$3,350
2207	2127.022	Far South Pressure Zone Elevated Tank	\$25,755
2207	2127.031	Martin Hill Elevated Reservoir	\$5,154
2207	2127.033	South I-35 Elevated Water Tank	\$8,500
2207	3353.060	Pioneer Crossing Amended PUD (North)	\$5,238
2207	3353.068	Circle C CCR 103 Water Line Improvements	\$2,077
2207	3353.073	Watersedge Publc Utility District (PUD)	\$8,166
2207 2207	4857.031 5335.003	Annexation Projects Future Program Ullrich WTP Contract II Raw Water Pipeline Construction	\$8,510
2207	6935.001	Davis Medium Service Water Transmission Main	\$5,150 \$38,930
2207	6935.005	Springdale Road/US 183/Hwy 71 Transmission Main	\$30,930
2207	6935.013	Forest Ridge/North West Austin Transmission Main	\$18,625
2207	6935.015	Highway 183 - Pilot Knob Pump Station Water Supply Transmission Main	\$9,350
2207	6935.018	FM 969: Decker Lane (FM 3177) to Hunters Bend Road Water Line	\$3,701
2207	6935.024	East Austin Pump Station to IH35 Water Transmission Main	\$18,400
2207	6935.025	Southwest Parkway TM (SWB)	\$3,500
2207	6935.026	Moore Rd Transmission Main	\$2,975
2207	6935.029	FM 812 TM	\$6,800
2207	6935.030	Harris Branch Pkwy/Cameron Rd 24	\$5,099
2207	6935.040	Westlake/West Rim Water System Improvements	\$1,080
2207	6935.043	Water System Improvements to Meet Minimum Standards Future Program	\$54,500
2207	6935.057	Advanced Metering Infrastructure for Potable & Reclaimed Water Services	\$80,670
WASTEWATER			(Costs in 1000s)
DEPT	SUBPROJECT ID	SUBPROJECT NAME	COST
2307	3023.033	Walnut Creek WWTP Sludge Transfer Line	\$6,812
2307	3023.046	Walnut Creek Wastewater Treatment Plant 100 Million Gallons Expansion	\$579,984
2307	3023.059	Walnut Creek Wastewater Treatment Plant (WWTP) Influent Lift Station	\$10,000
2307	3164.076	Hornsby Bend Dewatering Belt Press	\$850
2307	3168.056	Barrington Oaks Lift Station Improvements	\$3,000
2307	3168.060	New Pearce Lane Lift Station Facilities and Force Main	\$11,400
2307	3168.074	Northwest Lift Station Improvements: Four Points #2 Lift Station	\$2,025
2307	3168.087	Travis Country Lift Station Improvements	\$2,000
2307	3168.089	McNeil Lift Station Improvements	\$1,020
2307	3168.090	Davenport Limited Lift Station Improvements	\$500
2307	3168.091	Loop 360 Lift Station Improvements	\$500
2307	3168.115	Coomer Path LS Pump Upgrades	\$300
2307 2307	3168.116	Kale Lift Station Improvements	\$2,500
2307	3168.119 3333.021	Bull Creek Area Lift Station Improvements South Austin Regional WWTP Expansion to 100 Million Gallons per Day	\$3,020 \$287,505
2307	3353.053	Colton Bluff Subdivision	\$781
2307	3353.060	Pioneer Crossing Amended PUD (SER, North)	\$1,170
2307	3353.073	Watersedge Public Utility District (SER)	\$8,166
2307	3353.083	The Vistas (SER)	\$4,239
2307	3353.107	Buratti Subdivision	\$3,207
2307	4769.017	Upper Gilleland Interceptors-18 inch	\$20,048
2307	4769.019	Upper Gilleland Interceptor -24 inch	\$3,441
2307	4769.022	Upper Harris Branch Interceptor East	\$5,727
2307	4769.023	Dessau WWTP Relief Interceptor	\$217
2307	6943.002	Onion Interceptor Upgrade - Slaughter to Tunnel	\$29,520
2307	6943.003	Lower Tannehill Wastewater Interceptor Improvements	\$2,311
2307	6943.014	Wolf Ranch Interceptor	\$500
2307	6943.015	Eastwood Central	\$900
2307 2307	6943.017 6943.020	Parmer and Hwy 290 Walnut Creek Wastewater Plant to South Austin Regional WWTP Flow Transfer	\$500 \$1,333
2307	6943.020	Equivest North	\$1,353
2307	6943.023	Onion Interceptor Upgrade - Segment 2-Eti To Bear	\$2,500
2307	6943.024	Robinson Ranch Walnut Interceptor	\$6,940
2307	6943.056	Berkman Drive Wastewater Improvements	\$1,162
2307	6943.057	Upper Lake Creek Wastewater Improvements	\$1,964
2307	6943.058	Cottonmouth Creek Interceptor	\$12,125
2307	7265.015	Northeast WWTP Expansion to 2.25 MGD	\$11,250
2307	7265.019	Northwest Lift Station Improvements: Four Points #2 Lift Station	\$8,243
2307	7265.020	Taylor Lane Wastewater Treatment Plant Expansion to 0.35 MGD	\$3,814
2307	7265.027	Desau Wastewater Treatment Plant Expanion to 1.5 MGD	\$3,780

Table 4 Projects Removed from Previous Impact Fee Listing

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Removed Water Impact Fee Projects (All costs in 1000s of dollars)

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	Removed Water Impact Fee Projects					
	(All costs in 1000s of dollars)				Cost to	
				Completion	Build	
Subproject #	Project Description	Size	Pressure Zone	Date	(1,000s)	Reason
3353,068	Circle C CCR 103 Water Line Improvements	16"	Southwest B		2 077 Marc	d to future. Table 3
	•	24"				d to future, Table 3
3353.073	Watersedge Public Utility District (PUD)		Central	0045	-,	
3353.089	'Fox Hill	16/24"	South	2015		built infrastructure, no cost-participation
3353.095	Whisper Valley-Indian Hills CRA - north line	24"	North	2015-18		tructure to be paid for by developer
6935.018	FM 969 Decker to SH 130	24"	Central	2018	2,987 Repla	aced by Travis Co. Utility Reloc. 3212.133
	Removed Wastewater Impact Fee Projects					
	(All costs in 1000s of dollars)				Cost to	
	,		Drainage	Completion	Build	
Subprolect #	Project Description	Size	Basin	Date	(1,000s)	Reason
					(.)	
22.26	4 Wells Branch WW Trunk Line Phases, 1,1A, 2&3 NCAGC-MUD	18"/21"/24"	Walnut	1985	1,468 Capa	city utilized by 2015
23.735	3 Upper Walnut Creek WW Trunk Line Phase 2 NCAGC-MUD	48"/54"	Walnut	1985	1.325 Capa	city utilized by 2015
23.764	1 Lower Walnut Creek WW Imp Phases A,B&C NCAGC-MUD	24"/30"/42"/48"/54"/60"/66"/72"	Walnut	1987	12,221 Capa	city utilized by 2015
99.08	4 Purchase of Brushy System Capacity from LCRA, to 0.84mgd	0.5 mgd increase	Brushy Creek	2010	12,063 Capa	city utilized by 2015
810.00	1 Upper Walnut Creek Interceptor	14"/36"	Walnut	2002	8.976 Capa	city utilized by 2015
	- F F F F F F F F F F F F F F F F F F F					ct became PID - no cost
3353.09	2 Straiford Tracts 1.2.3-SER	15/18/24	Onion	2014		ursement/all developer funded
0000.00			onion			prion moved to 3353.091. That project
3353.09	4 Pearson Ranch-RRISD SER 2869 and 2870	12/24/FM/1100gpmLS	Lake Creek	2016	2.060 was a	
	1 GOVALLE I & D SYSTEM	96"	Govalle/SAR	1990		city utilized by 2015
	1 ONION CK INTERCEPTOR PH 4 tunnel	84"	Onion	1986		bleted in 1986
		54"	Onion	1986		pleted in 1986
	1 ONION CREEK INTREALLO (unne)	84"	Onion	1986		pleted in 1986
	1 Govalle Inter & Diversion Sys	96"	Govatle/SAR	1990		city utilized by 2015
5815.00	2 Triangle - Infrastructure Incentives	18"	Upper Waller	2005	1,193 Capa	city utilized by 2015

CIP-26

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III. IMPACT FEE FACILITIES AND FEE CALCULATION METHODOLOGY

The facilities that provide the bulk of water and wastewater capacity for new growth in Austin's service area are listed n Table 1 and Table 2 (and again in Tables 8 and 9 in Section VI). They were selected from the complete list of planned projects, including the major facilities built with contract bonds and developer contract reimbursements, according to the following criteria:

- Has the predominant function of serving new growth rather than existing customers;
- Does not provide repair, operation, or maintenance of existing facilities;
- Does not upgrade, expand or replace existing facilities serving existing development in order to meet stricter safety, environmental or regulatory standards.

These impact fee projects represent the individual projects that provide capacity necessitated by new development projected to occur within the next ten years. As shown in Table 1 and Table 2, most are already built as part of the City's CIP program, with only a portion not yet constructed. Impact fee facilities are shown graphically in Map 1 and Map 2.

To determine the costs of projects attributable to new growth, the Texas Impact Fee Act outlines a 4-step process based on quantifying the demand versus capacity relationship for projects in service areas. The process can be stated as follows:

- 1. Determine capacity of project in service units, and cost per service unit;
- 2. Determine future demand (capacity used up) for project in service units for the ten-year planning period;
- 3. Determine the impact project cost attributable to new growth, which is the cost per service unit (step 1) multiplied by the planning period demand (step 2).
- 4. Determine the cost per service unit by dividing the summation of the costs of the capital improvements (step 3) by the total number of projected service units for the ten-year planning period from the Land Use Assumptions.

The complex part of this methodology is step 2, determining the capacity that will be used in an individual project during the planning period. One might be tempted to simply add up the cost per service unit of each project to come up with a fee. This would be invalid because each new user does not use a service unit of capacity in every new project, and would result in double counting. Instead, the spatial allocation of new users from the Land Use Assumptions must be used to estimate the actual usage of a given project. To carry out this approach in a manageable manner, the water and wastewater service areas were divided up into subareas, pressure zones for water and drainage areas for wastewater. Sets of projects are assigned to each subarea, and the capacity addition to the subarea system is then defined. The assumption is made that each new user in a subarea uses a service unit of the available capacity associated with the selected set of impact fee projects in that subarea. The structure of Tables 8 and 9 illustrates this "subarea" methodology.

Calculation of the impact fee is not sensitive to the length of the planning period or the number of new growth users as long as all projects have more than enough capacity for growth (in excess of capacity serving existing users) in the planning period, as is the case with the great majority of Austin's impact fee improvements, because the number of new service units occurs in both the numerator and the denominator of the fee calculation. The calculation is more sensitive to the location of new users. If a large proportion of new users are projected to locate in areas with high cost per service unit for impact fee facilities, the calculated impact fee is correspondingly higher. If instead, more are projected to locate in areas with few or lower cost impact fee facilities, the calculated fee will be lower.

IV. SERVICE UNIT DEMAND AND CAPACITY RELATIONSHIPS

See Land Use Assumptions Section IV, SERVICE UNITS, page LUA-6 for service unit calculation discussion.

Water Service Unit Equivalency:

For 2015 residential use, 303 gallons per day per service unit divided by an average flow per capita of 80.3 gallons per capita per day (2015 residential pumpage divided by 2015 population) yields 3.77 residents per service unit. 2015 non-residential service unit equivalency is estimated at 4.59 employees per service unit by dividing 303 gallons per day per service unit by an average flow per employee of 66.0 gpcd (2015 non-residential pumpage divided by the 2015 number of employees. The number of residential customers per average service unit in Austin appears to be high because this calculation is skewed by the large percentage of customers living in multi-family housing and by municipal utility districts with master meters. These types of customers typically have large master meters with more efficient ratios between number of users and maximum capacity (on which the number of service units is determined) than do small residential meters. A summary of this information is provided in Table 5 below.

Table 5. LAND USE - SERVICE UNIT EQUIVALENCY MATRIX FOR THE WATER SYSTEM: CONVERSIONS FOR A TEN-YEAR PERIOD

Year	Service Units	Average Number of Residents / Service Unit	Average Number of Employees / Service Unit	Average Number of Gallons / Day Water Use
2015	1	3.77	4.59	303
2025	1	3.76	4.64	295

Meter size selection usually involves a count of water-using fixtures and an analysis of the number of fixtures that may be used at one time, calculated by a builder, engineer or architect. The result is a determination of the flow characteristics of a structure, or other facility relating the land use, to continuous and maximum flow requirements, which in turn are compared against meter flow ratings to select a meter size. Thus, a given meter size reflects a user-defined level of use or consumption in terms of flow. The average daily flow of one service unit, defined above, was chosen as the basis of consumption in this analysis so that every customer charged an impact fee will be placed on a uniform, flow-based footing. This indicates that on an average, each meter purchaser would be expected to use about 303 gallons per day per service unit (gpd/su) (in year 2015) and 295 gpd/su (in year 2025) of meter capacity purchased. The corresponding maximum day and peak hour consumption (needed to determine the required capacity in facilities) are readily determined from the known relationships between these flows derived from flow measurements in the water pressure zones.

Service Unit Conversion Factors:

The foregoing basic service unit definitions are specific to particular terms for relating magnitude and duration of flow, average daily pumpage in the case of water service units and average daily flow for wastewater. Utility facilities are sized using varied design flow criteria appropriate for the type of infrastructure. To calculate the capacity of a given facility in service units the basic service unit value must be converted to the necessary design flow basis for that type of facility using the appropriate peaking factor relationship. These relationships are shown on Tables 6 and 7 along with the capacity sizing basis for each type of facility. Note for example, that for wastewater lift stations and force mains, a peaking factor of 4 is used to convert the basic wastewater service unit (298 gpd/su) to a wet weather peak basis, so that an infiltration and inflow flow component is factored into the calculation of service unit capacity.

Table 6 Service Unit Conversion Factors for Facility Capacity

Water Facilities Service Unit Flow Definition: O/SU – annual average flow basis 2018 analysis: 303 gpd/SU for 2015 and 295 gpd/SU for 2025. Average used for capacity calculation = 299 gpd/SU 2013 analysis: 388 gpd/SU for 2010 and 348 gpd/SU for 2020. Average used for capacity calculation = 368 gpd/SU 2006 analysis: 445 gpd/SU all years

Facility	Capacity Sizing Basis	2013 Peaking Factor	2013 Service Unit Flow gpd per SU	2018 Peaking Factor	2018 Service Unit Flow gpd per SU
Water Treatment Plant	max day flow = plant rated capacity	1.75	368 x 1.75 = 644	1.73	299 × 1.73 = 517
Pump Station	1.25 x zone max day flow	•			
	= pump station rated capacity				
NWC		2.04	368 x 2.04 x 1.25 = 938	1.58	299 x 1.58 x 1.25 = 590
NWB		2.10	368 × 2.1 × 1.25 = 966	2.09	299 x 2.09 x 1.25 = 782
NWA	0	1.95	368 x 1.95 x 1.25 = 897	1.76	299 x 1.76 x 1.25 = 660
North	"	1.69	368 x 1.69 x 1.25 = 777	1.71	299 x 1.71 x 1.25 = 639
Central	*	1.40	368 x 1.4 x 1.25 = 644	1,77	299 x 1.77 x 1.25 = 661
South	υ	1.65	368 x 1.65 x 1.25 = 759	1.68	299 x 1.68 x 1.25 = 629
SWA	"	2.29	368 x 2.29 x 1.25 = 1053	2.02	299 x 2.02 x 1.25 = 755
SWB	n	2.45	368 x 2.45 x 1.25 = 1127	2.60	299 x 2.6 x 1.25 = 972
SWC	п	2.61	368 x 2.61 x 1.25 = 1201	1,47	299 x 1.47 x 1.25 = 551
Transmission Main	zone peak hour flow				
	= pipe capacity at 5 fps				
NWC	ъ	4.09	368 x 4.09 = 1505	2.48	299 x 2.48 = 742
NWB	•	3.82	368 x 3,82 = 1406	3.50	299 x 3.5 = 1047
NWA	"	3.15	368 × 3.15 = 1159	3.19	299 x 3.19 = 953
North	· •	2.59	368 x 2.59 = 953	2.09	299 x 2.09 = 626
Central	"	1.93	368 × 1.93 = 710	2.21	299 x 2.21 = 659
South	*	2.48	368 x 2.48 = 913	1.93	299 x 1.93 = 578
SWA	•	4.01	$368 \times 4.01 = 1476$	3.12	299 x 3.12 = 933
SWB	•	5.47	$368 \times 5.47 = 2013$	7.12	$299 \times 7.12 = 2130$
SWC	•	4.99	368 × 4.99 = 1836	2.11	299 × 2.11 = 631
Storage Tank	city volumetric criteria 200 gal/capita	na	200gal/capita x 875,936 capita / 352,521 SU = 497 gal/SU	na	200gal/capita x 972,823 capita / 393,263 SU = 495 gal/SU

Table 7 Wastewater Service Unit Conversion Factors for Facility Capacity

Wastewater Facilities

Wastewater Service Unit Flow Definition: Q/SU - annual average flow basis 2018 -- total annual 2015 influent flow to all WWTPs / total number of SU -- 298 gpd/SU 2013 -- weather normalized flow based -- 287 gpd/SU 2006 -- at 61.73% return flow = 275 gpd/SU 2001 -- at 65% return flow = 318 gpd/SU

Facility	Capacity Sizing Basis	2013 Peaking Factor	2013 Service Unit Flow gpd per SU	2018 Peaking Factor	2018 Service Unit Flow gpd per SU
Wastewater Treatment Plant	annual average flow = plant rated capacity	1	287x1 = 287	1	298x1 = 298
Interceptor	peak hour flow (5yr storm I/I) = 80% pipe full capacity (18" and larger) = 85% pipe full capacity (15" and smaller)	4	287x4 = 1148	4	298x4 = 1192
Lift Station	peak hour flow (5yr storm I/I) =rated firm capacity	4	287x4 = 1148	4	298x4 = 1192
Forcemain	peak hour flow (5yr storm 1/1) = capacity at velocity of 6 fps	N.A.	N.A.	4	298x4 = 1192

CIP-30

F

V. SERVICE UNIT DEMAND PROJECTIONS

The Land Use Assumptions provide the foundation for estimating the cost of capital improvements attributable to new growth by making it possible to quantify the demand for service from those improvements. The source data obtained from the Planning and Development Review Department gives population and employment data distributed by Delphi Trends Imagine Austin (DTI) polygons within the City's extraterritorial jurisdiction. The DTI polygon distribution not only allows the Utility to allocate growth to the selected impact fee service area, but it also can be translated into demands in specific areas in the water and wastewater pipe networks using a geographic information system (GIS).

The translation of population and employment demand data to flow based service units was described in the previous section. Land use data expressed in service units by Planning Area was included in Table 5 of the Land Use Assumptions. The DTI polygon information was allocated to water pressure zones and wastewater drainage areas to quantify demand by subarea. Demand sets for 2015 and 2025 were developed for the ten-year growth period.

Demand projections describing the impact fee project subareas are presented in Tables 8 and 9. All water pressure zones include impact projects; and since they do not overlap, the ten-year growth summed by zones equals the system-wide growth total. Accounting for the growth service units in wastewater project drainage areas is more complex, since the drainage area of one interceptor project may be a subset of a downstream interceptor project drainage area. For example, the Slaughter Creek project drainage area is a subset of the Onion Creek project drainage area. Service unit totals by wastewater treatment plant drainage areas are also presented to indicate a system-wide total.

VI. CAPACITY AND COST ATTRIBUTABLE TO NEW GROWTH

Water and Wastewater Capacity and Costs

Tables 8 and 9 present the capacity and cost attributable to new growth according to the impact fee methodology outlined in Section III. The cost used in the impact fee calculation is simply the cost per service unit multiplied by the ten-year growth in service units derived from the land use assumptions for the subarea served by each set of facilities.

The following outline illustrates the methodology used to calculate the maximum impact fees allowed by law. The letters of each item correspond to the lettered columns in Tables 8 and 9.

For wastewater, sheet "Table 9"

- A. The reference table to the Impact Fee project listing tables.
- B. Project ID.
- C. Project description. Columns A, B, and C are used to identify the Impact CIP projects.
- D. Project size. This is the design size of the facility.
- E. Pressure zone or drainage area.
- F. Completion date
- G. Cost to build. The cost to build a given facility includes the cost to the City for land acquisition, engineering, and construction, along with related cost components. The cost is listed in thousands of dollars, and excludes interest.
- H. Interest cost. The law allows interest cost to be added into the cost of a project if the impact fee will be used to repay both principal and interest. The amount of debt service assigned to each project was calculated by the Utility using the following assumptions: all bonds for the selected impact fee capital improvements projects were sold at the same time, an interest rate of 5.5% was assumed and the term of the bonds was thirty years. The amount of interest cost is indicated in thousands of dollars.
- I. Total cost to build (G plus H). Tables 8 and 9 provide cost figures with and without interest to provide a cost comparison.
- J. Design capacity of impact fee new facility or expansion. Capacity of the impact fee projects are expressed in service units for the subarea as a whole. All of the projects in a subarea are evaluated as a group to determine the best estimate of capacity added to the subarea by the facilities acting together. Typically one project "size" best represents the capacity addition for the subarea as a whole. See Tables 6 and 7 for capacity equations.
- K. Cost to build per service unit without interest (G divided by J).
- L. Cost to build per service unit with interest (I divided by J).

- M. Year 2015 land use assumptions. The population and land use level in a particular pressure zone or drainage area in the year 2015, expressed in service units.
- N. Year 2025 land use assumptions. The population and land use level in a particular pressure zone or drainage area in the year 2025, expressed in service units. Growth users (N minus M). The number of service units of new growth entering a particular pressure zone or drainage area in the ten year growth period. Each service unit of new growth uses a service unit of capacity in the set of facilities making up the subarea.
- O. Impact costs without interest (K times O). The cost per service unit of the facilities multiplied by the number of growth users in the specific pressure zone or drainage area, excluding interest.
- P. Impact costs with interest (L times O). The cost per service unit of the facilities multiplied by the number of growth users in the specific pressure zone or drainage area, including interest.
- Q. Existing users. The number of existing users (expressed in service units) whose service is enhanced by the addition of the facilities in the subarea; therefore, capacity attributable to existing needs.
- R. Excess service units in the subarea (J minus R minus O). The number of service units remaining unused in the subarea impact fee facilities after the 10-year planning period.

Steps A through S define the costs of the impact fee projects attributable to new growth. The procedure for summing these costs to calculate the maximum allowable impact fee is presented in the next section.

Table 8 Water Impact Fee Calculation by Pressure Zone Areas

A	в	c	D	E	F	(All cos G	us in 100 H	of dollars u	nless preced J	ed bry "\$") K	ι	м	N	o	Р	Q	R	s
Rof. Table	Subproject ID	Project Description	Size	Pressure Zone	Completio n Date	Cost to Build	interest Cost	Total Cost to Build	Facility Design Capacity SU	Cost to Build per SU	Cost to Build per SU w/ ` Interest	2015 Land Use Assumptions SU	2025 Lar Use Assumptions SU	10-Year Grawth Users SU	Impact Cost without Interest	Impact Cost with Interest	2015 Benefitun g Existing Users SU	2025 Excess SU After 10 years
								G+H		G/J	64			N-M	KaQ	LxO		J-R-0
1	2006.003	Four Points and Forest Ridge Pump Station Upgrades	NWB: 5.8 MG0 NWC: 10,4	Northwest C	2007			803										
1	2032.001 3869.001	Four Points Reservoir Canyon Creek 30° Transmission Main	8 MG 30"	Northwest C Northwest C	1958 1967	5,19 1,2		26 910										
1	5038.001	Anderson Mill Northwest C Pump Station and Tank	11.2 MGD, 1.9 MG	Northwest C	2016	11,48	4 10,77	3										
1 1 . 1	5038.002 3353.022 3353.027	Anderson Mill/RR 62D Transmission Main AMAX Self-Storage Reimbursement Canyon Creek Subd <u>ivision Reimbursement</u>	24/36" 241 241	Northwest C Northwest C Northwest C	2018 2007 2002	1,1	169 00 1,1	180 170										
		Facility Size That Determines Capacity	11.2 MGD PS				24,77:		18.972	1.31	2.61	7,684	9.606	1,722	2,247	4,495	5,913	11,336
1	793.001 793.002 1086.001	Anderson Mill Transmission Main III Anderson Mill Transmission Main Ph IIA & IV Jollyville Transmission Main Ph IIA & III	16" 24" 48"	Northwest B Northwest B Northwest B	2016 2000 2001	4,73 2,08 8,13	5 2,2	18	•									
1	1086.002 3616.001	Jollyville Transmission Main Ph IIB Anderson Mill Reservoir	48" 3 MG	Northwest B Northwest B	2001 1989	1,1 4,14												
į	3697.001 6935.019	Jollyville Pump Station Parmer & 620 Interconnect	45 MGD 24"	Nonthwest B	1988 2021	6.75 2.22	51 7.1	63										
1	3041.001	Davis Springs Service Extension	241	Northwest B	1997		941	•										
1	3353.018 3353.038	Avery Ranch Service Extension Stone Hedge Service Extension	24/38/48", 3 24"	Northwest B Northwest B	2015 2011	8,93		12										
	3353.094	Pearson Ranch - RRISD (SER 2869 and 2870) Facility Size That Determines Capacity	24" 45 MGD PS	Northwest B	2019	2,83			57,527	0.96	1.90	34.695	43,244	9,150	8,786	17,339	34,095	14,282
1	2014.001	Martin Hill - Northwest A Pressure Zone	34 MG 18"	Northwest A	1955	10,01												
1	3212.093 4758.002	Howard Lane Projects 16" FM 1825 Interconnect	16"	Northwesi A Northwesi A	2012 2005	1,0;	27 1,U 903											
1	4814.002 3353.019	Howard Lane East Transmission Main - Segment IBM/Tivoli Service Extension	36" 16"	Northwest A	2000 2002	4.78	5 5.01 341	n										
1	3353.032	Howard Lane Service Extension	24/16	Northwest A Northwest A	2002		220											
,	3353.065	Schultz 45 Acre Tract Water-Wells Branch Commerce Park	24"	Northwest A	2013	\$		323										
		Facility Size That Determines Capacity	34 MG Tank			17,478	15.40	32,878	68,687	0.25	0.48	57,313	70,057	12.744	3,243	6,100	25,791	30,152
1	2028.001	Martin Hill Transmission Main	5 4"	Northwest A/B/C	2017	25,076	26,680	1										
1	4814.003	Howard Lans Pump Station and TM	24/36/42/54". 43/65 MGD	Northwest A/B/C	2001	15,19	3 16.10	5										
1	4814 004	Howard Lane Water Transmission Main	24/38/42/54"	Northwest A/E/C	2001	1,92	22	-										
1	6935.016	Jollyville Northwest A Transmission Main (Plant 4)	64"	Norihwest A/B/C	2015	118,172	125,735											
1	6935.031	McNeil Road Transmission Main	72*	Northwest A/B/C	2025	21,550	22,926	,	See Note 4									
		Faculty Size That Determines Capacity	84" TM			181,912	191,51	373,422		0.76	1.55	99,292	122.908	23,615	17.867	36,676	60,558	156,270

	в	C	D	Е	F	(All costs G	in 1000 H	s of dollars v I	nlass preced J	hed by "\$") K	L	м	N	o	P	Q	R	s
Ref. Table	Subproject ID	Project Description	Size	Pressure Zone	Complete n Date		terest Cost	Total Cost to Build	Facility Design Capacity SU	Cost to Build per SU	Cost to Build per SU wi Interest	2015 Land Us Assumptions SU	2025 Lar Use Assumptions SU	10-Year Growth Users SU	impact Cost without Interest	Impact Cost with Interest	2015 Genefittin g Existing Users SU	2025 Excess SU After 10 years
								G+H		G/J	٧J			N-M	K x O	Lx0		J-R-O
	844.001	East Austin - Parmer Lane TM	48/54*	North	1997	6,657	7 08	1										
	2088.001	Parmer Ln/Howard Ln Transmission Main	48"	North	1989	3,593	3.82											
	2090.005	Johnny Morris Rd 16" Water Main	16	North	1999	46		491										
-	2939 001	Dessau Rd Transmission Main	16"	North	1990	934		94										
;	3779.001	Northlown Transmission Main	48"	North	1988	61		49										
:	3783.001	East Austin Pump Station	55 MGD	North	1989	1,974												
	4514.001	Northeast Area Water Improvements	48*	North	1990	1.718												
1	5028 006	RMMA Redevelopment North WPZ Imp Phase 3	30"	North	2012	5,585	5.94											
		(SER 2278)																
1	6935.003	Boyce Lane Water Main	24*	North	2017	7,201												
1	6935.021	Austrn Film Society	16"	North	2012	1,017												
1	6935.022	Springdale/290 Water Line Improvements	16"	North	2021	5,721	6,08	8										
1	6935.033	Johnny Morris/Hwy 290 Area Water Line	24"	North	2019	1,309		•										
1	6935.035	Howard Lane Water Main Extension	16"	North	2020	1,185												
1	6935.039	Cameron Rd : Gregg Lane to School	127/101	North	2019	1,634	1,73	8										
1	7487.002	Braker Ln Extension from Dessau Rd, to Samsung Blvd (City Funded)	24*	North	2021	:	35											
1	2090.003	Decker Lake 24-inch Woodlands Transmission Main (SER 1745)	24	North	1996	1,148	1,2	21										
	3353.007	Jourdan's Crossing Service Extension	24"	North	2001	19	A											
	3353.009	Dell 24-inch Water Reimbursement	24	North	1998	1,769												
	3353.028	Wild Horse Ranch	24/36"	North	2018	8,015		<u>`</u>										
'	3353.028	Pioneer Crossing Service Extension (SER 1825),	24/30	(WOTAN	2010	0,013												
1	3353.033	Ph II	24*	North	2004	1,243												
1	3353.04Z	Parmer Park Service Extension	24	North	2002	87	1 9	26										
1	3353.099	Pioneer Hill	16″	North	2015		1	1										
1	5028.002	Robert Mueller Municipal Airport	16/24"	North	2007	1,118	9 1,1	90										
1	5028.004	Mueller Water Improvements Reimbursament (SER 2277). Ph II	16"	North	2008	6,106	6,49	ō,										
1	5815.002	Triangle - Infrastructure Incentives	16/24"	North	2005	41	3 4	40										
		Harris Branch Parkway/Cameron Rd, Water																
1	3212.064	Lines Relocation	12"	North	2012	15	e	178										
1	3212.123	CTRMA/TxDOT Utility Relocation: US290E Manor Expressway	16"/24"	Narth	2016	1,008	-	514										
1	3212.151	TxDOT IH 35 Waterline Relocation: Rundberg To 290 East Segment	12"	North	20 19	593	,										•	
	82.224	200 East Segment 82/22-40 Howard Lane Reservoirs (NCAGC-	20 MG	North	1987	3.824	4,06	a										
	92.224	Facility Size That Determines Capacity	54" TM	nonui	1007	64,111			82,155	0.78	1.55	90 999	117,733	26,734	20,862	41,528	22,750	32,671
		Locard Orde Liter Determinates Cabacità	074 UM			V9.111		121.011	02,133	010	1.33	00 a05	111,100	20,134	20.002		e.c	

						(All costs	s in 1000:	of dollars u	nlass preced	ied by "\$")								
А	в	c	D	ÈΕ	F	G	н	1	۲.	ĸ	L	м	N	0	P	٥	R	S
									Facility				2025 Lar				2015	
Ref.				Pressure	Completio	Cost to th	nterest	Total Cost	Design	Cost to Build		2015 Land Use	Use	10-Year	Impact Cost	Impact	Benefitten	2025 Excess
Tab		Project Description	Size	Zone	n Date		Cost	to Build	Capacity	per SU	per SU w/	Assumptions	Assumptions	Growth	without	Cost with	g Existing	SU After 10
	-			2010					ຽນ	P	Interest	su	SU	Users SU	Interest	Interest	Users SU	years
								G+H	00	G/J	₩J			N-M	КхO	LXO	000.000	J-R-O
		·····																
1	1168.003	Ulkich to Green Transmission Main (Pipeline)	72*	Central	2000	5,598	4,746	i										
1	1168,004	Ullrich to Green Transmission Main (Lake Austre	72-	Central	2000	28,137	27,650											
		Tunnel)	36"		2014	5.005	5.326											
	2097.001	Elroy Transmission Main	35"	Central Central	2014	1,534												
1	2231,155	Elroy Road Water Rehabilitation Phase 2	10	Central	2016	1,034	1,73	D										
1	2231.157	Elroy Rd Water Rehabilitation Ph 3 - FM 812	16"	Central	2017	2.590	2,756	1										
		Maha Loop Water Rehab																
1	2231.214	Boggy Creek at US 183 Water Line Replacement	24	Central	2016	2.386												
1	2937.001	Springdale Rd 48" Transmission Main	48"	Central Central	1998 1990	6,11												
1	2963.001	Moore's Crossing Reservoir & Transmission Main Green WTP Transmission Main	36" 60"	Central	1989	2.402												
1	3612.001 3617.001	Buff Springs (Pilot Knob) Transmission Main	48"	Central	1992	7,466												
	3618.001	East Austin Transmission Main	66"	Central	1989	8,203												
, ,	3620.001	East Austin Reservoir	12 MG	Central	1987	2,14												
i	3626.001	Bluff Springs (Pilot Knob) Reservoir	10 MG	Central	1989	2.139												
1	3628.001	South Central Transmission Main	48"	Central	1987	4.578												
1	3761.001	Green WTP Transmission Main South	48*	Central	1989	1.572	1 67	3										
1	3769.001	Bluff Springs Transmission Main II	36"	Central	1988	1,91;	3 2 0 3 6											
3	3871.001	E Ban White Blvd Transmission Main	24"	Central	1993	3.506	3.73	1										
1	3898.001	Pilot Knob Transmission Main Sector III	48"	Central	1992	1,805												
1	3901.001	Buyelson Rd Transmission Main	48"	Central	1992	47												
1	4800.028	West Campus System Improvements	12"	Central	2013.	3,19												
1	4800.033	West Campus Water & WW Improvements Area 5	12*	Central	2016	4,703	5,005											
۱	5403.001	Rio Grands: from MLK to 24th St. Street	16"	Central	2014	1.11	3 1.16	5										
•	2102.007	Reconstruction & Ublity Adjustment		00.00		•		•										
,	8055.004	E. 7th Street Improvments from Northwestern	12-	Central	2013	72	0											
	0033.004	to Pleasant Valley	12	Certear	2013			-										
		Second Street District Streetscope Street				-	18 7											
1	6055.024	Recon. & Utility Adj. Phase 3	12"	Central	2017	7	10 (*	04										
1	6684.001	MLK; Rio Grande to Larnar	12"	Central	2012	82	6 8	78										
1	6935.081	Pitand Triangle Interconnect	24	Central	2020	75	0											
1	6959.001	Group 30' Oltorf St E/Congress Ave-IH35	247/12*	Central	2015	1 263	1,34	4										
. 1	6960.001	Brazos SI/Cesar Chavez-11th St E	12"	Central	2014	1.590	1,69	2										
1	6961.002	Colorado St. Reconstruction and Utility	12"	Central	2018	72	0 7											
1	0901.002	Adjustments from 7th St to 10th St	12	Central	2010	12	0 /	80										
		3rd St. Reconstruction Phase 3 - Congress Ave.												·				
1	8158.001	to Guadalupe St.	12"	Central	2017	'	10	-										
		3rd SI Phase 2 - Congress Ave to Brazos St &																
1	8158 002	San Jacinto Bivd to Trinity St	12"	Central	2017	1	17 1	25										
,	8158.003	3rd St. Phase 1 - Brazos St. to San Jacinto Blvd.	12"	Central	2015	25	2 2	88				-						
	3353.049	Robertson Hill Development	16"	Central	2010	20		35 35										
;	3353.052	Del Valle Junior High Number 2	24"	Central	2005	34		71.										
	3353.059	Pearce Lane Tract	36"	Central	2004	2,598												
	3353.069	University Neighborhood Overlay District	24"	Central	2007	1,828												
	3353.095	Whisper Valley_Indian Hills	48*	Central	2024	2,283												
t	3353.096	Formula One United States	24/36"	Central	2014	4,430												
1	3353.100	71 Commercial	24*	Central	2014	1,098	1,16	8										
	D0.57 40.5	Eastside Village (SER-3393) 12-Inch Water Line		6t'	2015													
1	3353.106	Improvements	12"	Central	2015		0	0										
		Travis County Utility Relocation: FM 969 (Phase																
1	3212.133	i); Decker Lone to FM 973	16"	Central	2019	2,743	1,06	1										
		TxOOT Utility Relocation; US 183 Bergstrom		_														
1	3212 136	Exprway (US 200 to SH 71)	247/167/12	Central	2018	8,315	5,284											
		Facility Size That Determines Capacity	72° TM			130.092 1		000 005	138,575	0.94	1.88	107.515	138,159	30,644	28,768	57,503	\$3,757	54,173

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<u> </u>	5	Ū		-		-		•	Facility				3036 Ler				2015	
Ref. Table	Subproject ID	Project Description	Size	Pressura Zone	Campletio n Date	Cost to I Build	Cost	Total Cost to Build	Design Capacity SU	Cost to Build per SU	Cost to Build per SU w Interest	2015 Land Us Assumptions SU	Use Assumptions SU	10-Year Growth Users SU	Impact Cost without Interest	Impact Cost with Interest	Benefitun g Existing Users SU	2025 Excess SU After 10 увага
								G+H	50	G/J	I/J			N-M	КхО	LxD	541700	J-R-O
							-							-				
1	3768.001 3876.001	S IH-35 Transmission Main	36" 24/30"	South	1988 1992	2,812 2,673	2 2,96 2,84											
1	3878.001	Slaughter Lin Transmission Main Slaughter Lane Waterline Extension	24/30	South South	1992	2,673		15										
1	6937.001	S IN-35 Transmission Main	36"	South	2017		17	18										
1	6937.003	So 1H35 W/WW Infrastructure Improvs PMC	PMC	South	2013	B,510												
1	6937.005	S I-35. Pilot Knob Pump Station	22 MGD	South	2016	10,488												
1	6937.006	S I-35, Segment 21 - Pilot Knab Reservoir 48-	48"	South	2013	86		703										
		inch Water Main																
1	6937.008	S I-35, Segment 6 - I 35 South of Onion Creek, 36 Inch Water Main	36"	South	2012	1,456	9 1,5	52										
۱	6937.009	S I-35, Seg. 13/14 - Pteasant Valley Ext., Rinard Crk to E Slaughter Ln, 42	42"	South	2013	1,833	7 1,9	55										
1	6937.010	S I-35. Segment 17/18/19 - Slaughter Ln Ext to Thaxton, 48-inch Water Main	48"	South	2010	3,200	3,40	14										
1	6937.011	S (-35, Segment 4 - I 35, N of FM 1626 to Onion Creek, 36-Inch Water Main	36"	South	2012	1,358	3 1,4	45										
1	6937.012	S I-35, Segment 7 -1 35, north of FM 1327, 42- Inch Water Main	42"	South	2013	2,014	4 2,1	43										
1	6937,013	5 I-35, Segment 9.0 - FM 1327, I 35 to Bradshaw	42	South	2016	2,935	3,1	23										
1	6937.014	Rd, 42-inch Water Main \$ I-35, Segment 9.1 - FM 1327 to Bradshaw Roac	42"	South	2016	3.126	3.32	A										
		north of FM 1327 S IH-35 Transmission Main, Segment 18&19 - E																
1	6937.015	Slaughter Ln, Marble Creek to Thaxton S 1-35, Seg. 20.1/21 - Wm Cannon from	46"	South	2010			337										
١	6937.018	McKinney Falls to Pilot Knob WTM	48*	South	2016	3,285	3,47	4										
١	6937.017 .	S I-35, Seg. 2/5 - I 35 Slaughter and Onion Crk Crossings, 36-In Water Main	36"	South	2016	7,998	8.50	19										
1	6937.016	S I-35, Segment 8 - I 35 Crossing North of FM 1327, 42-in Water Main	42"	South	2012	1.565	i 1,6	66										
1	6937.019	S I-35, Segment 20.0 - McKinney Falls Pkwy, Thaxton to Wm Cannon, 48-Inch W	48*	South	2014	3.414	1 3,63	13										
<u>,</u> 1	6937.020	S I-35, Segment 15 - Goodnight Ranch Ph I, 48- Inch Water Main	48"	South	2011	1,01	1 1,0	76										
1	6937.021	S I-35, Segment 1 - I 35 Slaughter Ln to Slaughter Crk, 36-In Water Main	36*	South	2018	2,917	3.1	04										
1	6937.022	S I-35, Seg. 11/12 - S. Pleasant Val. Ext. at Legends Way, 42-In Water Main	42"	South	2018	1,924	2,04	17										
1	6937.023	S I-35 Segment 10 - Bradshaw Rd, S of River Plantation Dr, 42-In Water Main	42"	South	2016	1,702	2 1,	911										
1	6937.024	S I-35, Segment 16 - Goodnight Ranch Phase II, 48-Inch Water Main	48"	South	2012	1,360), 1,4	47										
		\$ IH-35 Transmission Main, E Slaughter Ln ROW	Sites of Sec				•											
1	6937.030	Acquisition	17,15,19	South	2011	49	90	527										
1	3353.062	Zachary Scott Tract Service Extension	24	South	2009	1,240	1,3.	20										
1	3353.072	Goodnight Ranch	24"	South	2016	2.442												
1	3353.074	Alexan Onion Creek	24/36	South	2010	55		940										
1	3212.104 1001.001	Manchaca Rd-Ravenscroft to FM 1626 Davis Lane Reservoir SO-MUD (Add 10 to 20	16" 10 MG	South South	2013 1988	2.295 1.81												
'	1001.001	Facility Size That Determines Capacity	48° TM	00401	1000			156.475	70,316	1.08	2.23	54,544	67,139	12.596	13,594	28,029	8,182	49,539
		, waity out that or binning outduty				10,000	20,207		10,010		1.25		07,108	12.030	10,204	10,019	0,102	72,290

						(All cos	ts in 1000)so í do laus (intess preced	ed by \$")								
A	в	с	D	E	F	G	н	1	1	ĸ	L	M	N	0	Р	Q	R	8
Ref. Table	• Subproject ID	Project Description	Size	Pressure Zone	Completio n Date	Cost 10 Build	Interest Cost	Total Cost to Build	Facility Design Capacity SU	Cost to Build per SU	Coșt to Build per SU w/ Interest	2015 Land Us Assumptions SU	2025 Lar Use Assumptions SU	10-Year Growth Users SU	Impect Cost without Interest	Impact Cost with Interest	2015 Benefittin g Existing Users SU	2025 Excess SUAñter 10 years
								G+H		G/1	NJ			N-M	KXO	L X 0		J-R-Q
1	3825.001	Southwest 8 Camp Ben McCullough Transmission Main	16*	Southwest B	1992	-		536										
1	3659.001	Windmill Run Southwest & Transmission Main	36	Southwest B	1990	1,96	2 2,08	7										
1	85.2277	85/22-77 Southwest B 36" Transmission Main (CC#3-MUD)	36"	Southwest B	1988	1, 13	30 1.2	02				•						
1	85.2278	85/22-78 Southwest & Pump Station (CC#3	22 MGD	Southwest 8	1988	2,290	0 2,43	7										
1	1000.001	Southwest B Reservior #1 (CC#3-MUD)	2 MG	Southwest B	1988	1,90	3 2,02	5							•			
+	1988 0628	Southwest B 10" Trans Main (CC#3-MUD)	16"	Southwest B	1988		197	210										
		Facility Size That Determines Capacity	(Subproject ID	85 2277)		2,98	5 8,49	6 16,482	10,724	0.74	1.54	9,286	10 751	1,466	1,691	2,252	5,571	3,687
1	4800.005	New Thomas Springs Reservoir	1.25 MG	Southwest C	2001	2,34	7 2.4	71										
1	48D0 010	Southwest C Prossure Zone Pump Station	8.2 MGD	Southwest C		5,86							•					
1	4800.021	Southwest C Pressure Zone Transmission Main Ph 2	30"	Southwest C		2,10												
1	4800.022	Southwest C Pressure Zone Transmission Main Ph 1	30*	Southwest C	2007	5,546	8	•										
1	3353.025	Travis County West Developer Reimbursement Southwest C	2.1 MGD PS, 16"	Southwest C	2003	1,68	0 1,7	88										
		Facility Size That Determines Capacity	30" TM			17,539	12.54	5 30.084	25,138	0.70	1.20	2,951	3,536	584	408	699	2,361	22,193
· 1	3353.008	Lantana Service Extension Developer Reimbursement Southwest B&C	14 MGD PS	Southwest B/C	2002	3 254	9	•										
		Facility Size That Determines Capacity	14 MGD PS			3.254	•	- 3,254	16,866	0,19	0, 19	12,237	14,287	2.050	386	398	7,342	7,474
		Southwast A Site Development CD#3-NUD	n/a	Southwest A/B/C	1968	2	68 :	283										
1	85.2265	85/22-85 Davis Lane Pump Station (VWO-MUD)	56 M G D	Southwest A/B/C	1989	5,758	6,1;	27										
1	85.2276	85/22+76 SWA Storage Tank (Slaughter Lane, MR-MUD)	6 MG	Southwast A/B/C	1988	1,25	6 1,3:	36										
۱	85.2279	85/22-76 SWA TM Phases 1.1A,2,3,4A,4B (MR- MUD)	48"	Southwest A/B/C	1987	4,50	1 4,78	9										
1	1937.0508	Davis Lane TM (PS discharge, SO-MUD)	48*	Southwest A/B/C	1987	2	20 3	234										
,	1987.0627	SWA 48" Interconnector (MR-MUD)	48*	Southwest A/B/C	1987	1.01	16 1.0	81										
		Facility Size That Determines Capacity	48" TM			13,017	7 13.850	26,867	36,018	0,36	0.75	40,912	46,575	5,663	2,048	4,224	20,456	9.899

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A	8	с	D	E	F	(All costs G	ain 1000s H	i of dollars L I	nless preced	ed by *\$*) K	L	м	N	o	₽	o	R	5
Ref. Table	Subproject ID	Project Description	Size	Pressure Zone	Compietio n Date		nterest Cost	Total Cast to Build G+H	Facility Design Capacity SU	Cost to Build per SU G/J	Cost to Build per SU w/ Interest	2015 Land Us Assumptions SU	2025 Lar Use Assumptions SU	10-Year Growth Users SU N-M	Impáci Cost without Interest K x O	Impact Cost with Interost L x O	2015 Benefitin g Existing Users SU	2025 Excess SU After 10 years J-R-O
1	5335.001	Ulirich WTP 160 MGD Expansion	67 MGD Exp.	Ultrich	2011	109.123	118.107											
1	\$335.002	Ullrich Water Treatment Plant 160 MGD Expansion - Low Service Pump Station	67 MGD Exp.	Ullrich Service	2006	2,567		1										
		Facility Size That Determines Capacity	67 MGD			111,680	118,835	230,528	129,526	0.86	1.78	Saa Note	is 1 and 2	81.512	53,042	109,478	See	Nole 3
1	6083.002	Water Troatment Plant No. 4	50 MGD	Plant 4 Service	2017	101,736	108.062											
1	6683.007	Water Treatment Plant No 4 - Property Fencing	50 MGD	Plant 4 Service	2009	35	ie 3	82										
1	6093.009	Water Treatment Plant #4-Environmental Commissioning	50 MGD	Plant 4 Service	2017	2.833	3.01	2										
1	6683.010	WTP 4-Plant Site Storm Water Facilities	50 MGD	Plant 4 Service	2011	3 327	3,540	1										
1	6663.013	WTP4 Raw Water Pump Station Excavation and Stormwater Facilities	50 MGD	Plant 4 Service	2012	3 435	3,654	Ļ.										
1	6583.014	Water Treatment Plant No. 4 Raw Water Pump Station Facility	50 MGD	Plant 4 Service	2014	7,243	7,706	1										
1	6663.018	Value Engineering	50 MGD	Plant 4 Service	2011	57	4 6	10										
1	6683.019	Water Treatment Plant #4 - Construction Manager at Risk	50 MGD	Plant 4 Service	2015	289,433	279,812											
1	6683.020	WTP4 Bullick Hollow Roadway Improvements	50 MGD	Plant 4 Service	2011	1,08	1,15	ia										
		Facility Size That Determines Capacity	50 MGD			410,019 4	05,930	815,949	96,681	4.24	8.44	See Note	is 1 and 2	37.739	160,081	318,565	See	Viole 3
1	8702.003	Shaw Lane Sludge Facility Improvements	616,000 CY	Entire System	2017	5.428			See Note 5									
		Facility Size That Determines Capacity				5,428		11,202 2,243,339	502,439	0.01	0.02	393,263	492.514	99,251	1,072	2,213	0	See Note 5
									Service	Unit and Syste	im-wide Impac	ci Cosi Toiais		99,251	313,502	629,495		
						Resulta				cradit per atatı ting maximum					· •	-157,854 471,642	-	

Maximum Allowable Impact Fee (\$471,642,000 / 99,251 service units)

\$ 4,752

Notes and Plant Flow Distribution

- Note 1 Davis WTP is assumed to serve the same number of service units in 2015 and 2025 the decreasing gallons per service unit per day from 303 to 295 makes demand low er for same number of service units.
- Note 2 It is assumed that existing and new grow th units in the North/NW pressure zones are assigned to WTP4, that Davis WTP will serve existing units in the Central/North zones, and that Ullrich will serve existing and new grow th units in the Central/South/SW zones.
- Note 3 Recognizing that the flow per service unit may continue to change over time, the 2025 system remaining capacity is 84.5 mgd and 166,074 service units in the present analysis.
- Note 4 Capacity of the Jollyville and Martin Hill TMs is calculated based on the maximum day peaking factor in the same manner as for plants, since these major TMs operate in the same flow regime as the plant the feeds them.
- Note 5 The Shaw Lane Sludge Facility began utilizing the Far West Pit in 2016. This pit's volume is 616,000 cubic yards. 2015-2025 water demand estimates were used to calculate the sludge volume. It is estimated that the cumulative sludge volume will reach the capacity of the pit in 2026. Therefore, the facility design capacity (Column J) for Shaw Lane is the system wide number of service units served in year 2026.

Plant Flow	Distribution	(Maximum Day)
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Plant	Plant Capacity		Day Demand Top 5)		lax Day nand	10-Year A	rea Growth	
	(MGD)	(MGD)	(SU)	(MGD)	(SU)	(MGD)	(SU)	_
WTP4	50	31.9	60,558	50.0	98,297	18.1	37,739	Note 2
Davis	118	91.4	173,701	88.4	173,701		D	Notes 1 and 2
Ullrich	167	83.7	159,004	112.2	220,516	28.5	61,512	Note 2
System	335	207.0	393,263	250.5	492,514	46.6	99,251	_

Table 9 Wastewater Impact Fee Calculation by Collection Drainage Areas

				(All costs in 1000s	of dollars unit	ess preces	ted by S	<u> </u>										
A	B	c	D	E	F	G	Ĥ	I	J Facility	к	L Cost lo	M 2015 Land	N 2025 Land	0	P • impact	9	R 2015	\$ 2025
Ref. Table	Projectid/ MapID	Project Description	Size	Drainage Basin Facility Area	Completion Date	n Cosito Buñid	Interest Cast	Tola) Coslite Build	Design Capacity SU	Cost to Build per SU	Buiki per	Use Assumptions SU	Use	10-Year Growth Users St	Cost	Impact Cost with Interest	Existing	Excess SU After 10 years
										G/J	IJ			N-M	KxO	Lx0		J-R-O
2	3212.057	TxDOT Utility Relocation: FM 973 @ Colorado River	10" FM	Colorado River	2017	1.557	1,656											
		Facility Size that Defines Capacity Addition	10" FM	973 @ Colorado River		1557	1.656	3,213	1.774	0.88	1.81	43	150	. 106	93	193	43	1.625
2	3168 139	Travis Country Lift Station Improvement - Pump Installation	2400 gpm	Barton	2017	0	o											
2	3353 008	Travis Country Service Extension Facility Size that Defines Capacity Addition	21" 2800gpm	Williamson Barton to Williamson	1997	41 41	43 43	84	3 383	0.01	0.02	2.831	3,251	421	5	10	2.631	131
2	3351.001	Cullen/Southland Acquisition	12°FM/18'	Bear/Staughter	1997	781	0											
2	3353 054	Marbridge Farms Wastewater	350 gpm LS	Bear	2007	217	231											
2	3168 109		430 gpm	Bear	2016	27	0									·		
2	6943.055		30*	Slaughter	2019	1.027	1,093											
2	3168.138	Southland Oaks Wet Well Conversion Facility Size that Defines Capacity Addition	2100 gpm 30"	Bear Bear/Staughter	2018	2,132	0	3,457	5,771	0.37	0.60	1,533	1,911	378	140	776	1,533	3,850
2	3168.043	Boggy Creek LS Upgrade	25 MGD	Lower Boggy	2016	4,045	4,307											
2	6943.034	Carson Creek Basin Wastewater Line improvements	167/24"	Carson	2019	2,558	2,722											
2	3168.077	Gonzales Lift Station Abandonment	18"	Lower Boggy	2015	739	0											
2	3168.054	Govalle Wastewater Flow Diversion	36" FM	Colorado River	2020	2.917	0											
2		Hergotz-Lockheed Wastewater Improvements	48*	Carson	2020	2,562	2,832											•
2	3353.013		24"	Carson	2000	151	0											
2	3212.136	TxDOT Utility Relocation: US 183 Bergstrom Exprway (US 290 to SH 71)	24"/30"	ower Boggy/Colorado/Carso	2019	5,260	5,597											
		Facility Size that Defines Capacity Addition	48	Lockheed		18,335	15,459	33,794	31,040	0,59	1.09	14,108	17,864	3,758	2.220	4,091	14,106	13,176
2	7265 040	Brushy Creek Regional Wastewater Treatment Plant Expansion Participation	3 mgd exp	Brushy Creek	2023	20 700	22,025											
2	6943.033	Interceptor/Lake Creek Interceptor	36"	Brushy Creek	2016	998	1,062											
		Facility Size that Defines Capacity Addition	3 mgd exp	rushy Creek to Brushy WW	TP	21 698	23,087	44,784	10,067	2.16	4.45	3,732	8,973	5,240	11,294	23,311	0	4,827
2	3168 024		8"	Bult	2005	612	651											
		Facility Size that Defines Capacity Addition	8" @ 0.28%	Bull/Balcones		612	651	1,263	295	2.08	4.29	246	301	54	113	233	246	Note 1
2	6943 041	Barrington Oaks Downstream Gravity Improvements Phase 2	15	Յութ	2024	4.020	4,277											
2	6943.029	Barrington Way Forcemain Reroute and Gravity System Upgrade	15"	Bull	2017	2.616	0											
		Facility Size that Dafines Capacity Addition	15" @ 0.63%	Bul/Barrington		6,636	4,277	10,914	2,363	2.81	4.62	1,209	1,347	138	388	639	1,209	1.016
2	6943.022	Canyon Greek Interceptor - Upsize	18724*	Bull	2019	105	0											
_		Facility Size that Defines Capacity Addition	18" @ 0.9%	Bull/Canyon Creek		105	0	105	4,322	0.02	0.02	1,026	1,095	67	2	2	1.028	3.227
2	6943.032	Four Points Center Forcemain Improvements	12" FM	Bull	2018	665	708											
		Facility Size that Defines Capacity Addition	12" FM	Bull/Four Points Center		665	708	1.373	2.555	0.26	0.54	535	607	72	19	39	535	1,948
2	3168.085	Northwest Lift Station Improvements: Boulder Lane Lift Station	14"FM/1950gpmLS	Bul	2023	1,434	0											
2	3168 057	Rock Harbour Lift Station Improvements	6200 gpm	Bul	2021	2,628	2,798											
		Facility Size that Defines Capacity Addition	6200 gpm LS	Bull/Rock Harbour		4 062	2,796	6.858	7,490	0.54	0.92	2.098	2.363	265	144	243	2,098	5.127

				(Al costs in 1990a		less preced												
A	8	· c	D	E	F	G	н	1	· J	к	L	M	N	0	Р	Q	R	s
ef. Ibiç	Project Id/ Map ID	Project Description	Size	Drainage Basın Facility Area	Completio Date	n Costto Guild	Interest Cost	Tolai Costio Build	Facility Design Capacity SU	Castio Build per SU	Cost to Build per SU w/Interest		2025 Land Use Assumptions SU	10-Year Growth Users StJ	Impact Cost without Interest	lmpaci Cost with (nterest	2015 Existing Users SU	
2	3353.101	Bellingham Meadows/Wm, Waltace Way Lift Station Wastewater Relief Main	157/18"	Gilleland	2017	2,339	2.489											,
2	4769.010	Harris Branch Interceptor Lower A	12"/30"/38"	Harris Branch	2018	7,280	7 746											
2	4769.018	Harns Branch Interceptor Lower B	36"	Harris Branch/Gilleland	2016	872	927											
Ż	4789.018	Harris Branch Interceptor Lower B	36*	Hamis Branch/Gilleland	2016	5,533	o											
\$	4769.002	NE AREA INTERIM WWTP	20"FM/30"gravity/0.75 MGD plant	Gillerand	2008	6.752	9,312											
2	4769.005	Northeast Service Area North Interceptor (Wildhorse North Interceptor)	8718736	Gilleland	2005	2,329	2,478											
2	7265,004	Northeast WWTP Expansion to 1.5 MGD	0.75 mgd exp	Giteland	2021	7,705	8,199											
2	3353.077	Scots Glen	18"	Gilleland	2009	1	1											
2	3353.077	Scots Glen	18"	Gileland	2009	844	0											
2	3353.028	Wild Horse Ranch	8712718721724727758	Decker/Gilleland	2018	4,076	4,337											
2	3353.076	Wildhorse Addition	127/18"	Gilloland	2009	793	843											
2.	4760.015	Wildhorse North Interceptor Ext. No. of 290	42"	Gileland	2015	3 593	3,623											
2	4769.005	Wildhorse Northwest Interceptor Phase 2	12"/18"/21"/24"/27"/30"	Decker/Gileland	2013	2.548	0											
		Facility Size that Defines Capacity Addition	30" @ 0.27% / 36" @ 0.09%	is/Branch/Gilleland to Wildh	orse WWTi	P 46.684	40,154	66,819	17,924	2.60	4.84	2.153	4,462	2,310	8.013	11,187	2,153	13.
2	3353.105	Finspeed 30-Inch Offsite Wastewater Line	30"	Dry South	2018	303	322											
2	3353.096	Formula One United States	30"	Dry South	2016	8 287	D											
2	3353,103	Moore's Crossing MUD Lift Station Interceptor WW Service Extension Plan	21"	Dry South	2017	75	80											
2	3168.037	Pearce Lane Lift Station Upgrade (900 to 1800	900 gpm wp	Dry South	2014	54	0											
2	3168.059	gpm) South Area Lift Station Improvements: Pearce	, 4 50 0 gpm	Dry South	2021	2.970	3,160											
		Lane Upgrade & New Force Main Facility Size that Defines Capacity Addition	30" @ 0.08%	Dry South		9,609	3,562	13.232	4 358	2.22	3.04	1,375	2,729	1 353	3 002	4,109	1.375	1/
2	3353.067	Austin Blue Sky investments, Inc. SER 2271	12"Gravity/12"FM1000gpmLS	Eim Creek	2008	660	724	13.232	4 300	2.22	3,04	1,375	2.729	1 300	3 002	4,105	1.375	1.0
		(Quickstream Lift Station) Facility Size that Defines Capacity Addition	1000 gpm	Elm		680	724	1,404	1,208	0.58	1.18	534	549	15	9	18	534	6
2	6943.035	FM973 Wastewater Line Improvements	15 /16	Onipe	2018	4.463	0											
•		Facility Size that Defines Capacity Addition	18" @ 0.21%	FM073		4,463	ō	4,463	2,088	2.14	2,14	Q	275	275	588	588	0	1.8
2	3353.095		30 Gravity/LS/0.1 mgd TP	Gilleland	2024	2.811	2,778		-,	-		•			••••		•.	
		Facility Size that Defines Capacity Addition	30 @ 0 2%	Reland to Taylor Lane WWT	P	2,811	2,778	5,389	7,957	0.33	0.68	Q	1,015	1,015	333	687	0	6.1
2	5481.001	Downtown Wastewater Tunnel	42"/48"/54'778"/90"	Gova.le/SAR	2015	49,474	52 640											
2	5481.001	Downtown Wastewater Turnel	42"/48"/54"/78"/90"	Govalle/SAR	2015	8,205	0											
		Facility Size that Defines Capacity Addition	90* @ 0.05%	DTT		57,879	52.640	110,319	74,480	0.77	1.48	33,816	42.078	8,460	6,552	12,531	33,610	32,
2	6943.043	Harpers Branch Creek Interceptor	15" or 16" depending on slope	Harpers Branch	2019	2,596	Ø											
		Facility Size that Defines Capacity Addition	16"	Harpers Branch		2,596	0	2,596	1,691	1.54	1.54	1.046	1,413	368	565	565	1.046	2
2	7265.014	Dessau WWTP Expansion to 0.99 MGD	.49 mgd EXP	Harris Branch	2021	5,345	5 687											
2	3353,102	Fort Dessau	187/247/FM/750gpmLS	Harris Branch	2016	1,417	1.508											
2	7285,002		xianl/4100.gom LS/16" FM/284.gpm		2006	2,051	0											
		Facility Size that Defnes Capacity Addition		urris Branch to Dessau WW		6,823	7 195	18 017	3.322	2.66	4 82	1,272	2,159	867	2,357	4,279	1,272	1,1
2	3188.024	Balcones LS Relief - Phase I & 3A	8"/12"/18"/24"	Lake Creek	2005	414	440											
2	3168.024	Balcones LS Relief - Phase I & 3A	8"/12"/18"/24"	Lake Creek	2005	749	0											
2	3168.029	Balcones LS Relief - Phase IIC	19"/24"	Lake Creek	2002	1,577	1 678											
2	3041.001	Davis Springs Reimbursement	21"Gravity/16"FW3600gpmLS #1	Lake Creek	1996	1,476	0											
2	3041.001	Davis Springs Reimbursement Lake Creek Wastewater System Improvements	21"Gravity/16"FM/3600gpmLS #1	Lake Creek	1996	568	603											
2	27.7669	Convacts 1&2 (LS at capacity)	30"/36"/42"/48"	Lake Greek	1969	3,627	3,859											
2		Lakeline Condos-Gencap Partners SER 2846	8"/15" gravity/10"FM/1100gpmLS	Lake Creek	2014	1.341	1,427											
	0943 004	Parmer Lane Interceptor	42" 42"	Lake Creak/Rattan	2020	32 531	34,813											
2					2020	1.079	0											
2	6943.004 3353.091	Parmer Lane Interceptor Pearson Avery Ranch	42 12/24/FM 1100gpmLS	Lake Creek/Rattan Lake Creek	2016	2.827	3,008											

				(All costs in 1000)	or oonars un		ectly 21											
Α	8	С	D	E	F	G	н	I	J Facility	к	L Cosilo	M 2015 Land	N 2025 Land	Ó	P Impact	Q	R 2015	S 2025
Ref. Fable	Project ld/ Map K0	Project Description	Size	Drainage Basin Facility Area	Completio Date	n Costlo Build	Interest Cost	Tolal Cosi to Build	Design Capacity SU	Costlo Build perSU	Build per SU w/Interest	Use Assumptions SU	Use	10-Year Growth Users SU	Cost without Interest	Impact Cost with Interest	Existing Users SU	Exces SU After 1 years
2	4926.028	ACWP - Little Walnut/Buttermilk - South	8"/42"/60"	Little Walnut	2009		11,778											yours
2	4926.028	ACWP - Little Walnut/Buttermik - South	8"/42"/80"	Little Walnut	2009	5,753	0											
2	4926.021	ACWP - Little Walnut/Buttermilk @ 290 & 183	42"	Little Walnut	2010	1,931	2,054											
2	4926.023	ACWP-Little Walnut/Buttermilk @ Centre Creek	42"	Little Walnut	2009	4,732	5,035											
2	3212.151	TxDOT IH 35 Waterline Relocation: Rundberg To 290 East Segment	87/127/18*	Buttermik	2019	310	0											
		Facility Size that Defines Capacity Addition	60° @ 0.35%	Little Walnut/Buttermilk		23,794	18,867	42,661	65.B35	0.36	0.64	34,266	39,854	5 5B8	1,989	3,567	34,265	26,981
2	5028.005	RMMA Redevelopment South WW Improvements (SER 2281)	15"	Lower Tannehil	2008	1,301	1,385											
		Facility Size that Defines Capacity Addition	15" @ 0.65%	Lower Tannehill		1,301	1,385	2,686	2,400	0.54	1.12	318	538	220	119	246	318	1,862
2	3353.049	Robertson Hill Development	12*	Lower Waller	2008	693	738											
		Facility Size that Defines Capacity Addition	12 @ 0.36%	Lower Waller		693	736	1,431	985	0.70	1.45	322	478	157	110	228	322	507
	87.0704	Onion Creek Int Phase 3 (Slaught, To Boggy) SO-MUD	54"	Onion	1968	2,935	3, 123											
2	4292.001	ONION CK INTER EXIST-BOGGY CK	54"	Onion	1989	2,351	2,501											
2	4197.001	ONION CRK INTROPTR	54"	Onion	1968	1,965	2,090											
2	6937,026	S F35, Onion Creek Golf Course WW Int - 135 to Rinard (South Tunnel)	42	Onion	2015	10.849	11,544											
z	6937.025	S I-35, Onion Creek Wastewater Interceptor - Rinard to Staughter (N Tunnel)	54-	Onion	2017	13,501	14,366											
2	6937.027	S ⊩35, Onion Creek Wastewater Tie-in Line - Phase 1	24*	Onion	2012	2,409	2,564											
2	6937.003	So. IH35 W/WW Infrastructure Improvs PMC	PMC	Onion	2013	3,752	3,992											
2	6937.003	So. IH35 W/WW Infrastructure Improvs PMC	PMC	Onion	2013	644	0											
		Facility Size that Defines Capacity Addition	54" @ 0.12%	Onion		38,407	40,180	78 586	29,549	1.30	2.66	27,099	33,562	6,464	8,401	17,190	27,099	Note 1
2	3212.137	TxDOT Utility Relocation:SH 71: East of US 183 to Onion Crk-Toll Road	15"	Onion	2016	1 584	1 685											
		Facility Size that Defines Capacity Addition	15 @ 0.1%	Onion at SH 71		1.584	1.665	3.269	941	1.68	3.47	0	216	216	363	750	0	726
2	4926,097	ACWP Pedernales (Line Yonly)	36"	Pedernales	2012	4 846	5,156											
		Facility Size that Defines Capacity Addition	36* @ 0,30%	Pedernales		4,846	5,156	10.001	15.846	0.31	0.63	3,260	4,092	832	255	525	3,260	11.754
2	3353.071	Rancho Alto Ventures	481 gpm LS, FM	Bear	200B	442	470											
		Facility Size that Defines Capacity Addition	481 gpm LS, FM	Rancho Alto		442	470	912	581	0.76	1.57	297	486	189	144	297	297	95
2	3353,084	Legends Way	30"	Rinard	2016	1,905	2,027											
2	3353.062	Zachary Scott Tract SER (both city const. and dev design)	36"	Rinard	2012	5,937	6,317											
2	3353 062	Zachary Scott Tract SER (both city const. and devidesign)	36"	Rinard	2012	2,310	0											

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				(All costs in 1000s	of doitant unles	n preced	ed hy 🐨)											
A	6	с	D	E	F	G	н	•	J	к	L	м	N	o	Р	q	R	S
Ref. Fable	Project1d/ Map1D	Project Description	Size	Drainage Basin Fac⊪ty Area		Costlo Builo	Interest Cost	Total Cost to Build	Facility Design Capacity SU	Cost to Build per SU	Cost la Build per SU w/interest	2015 Land Use Aasumptions SU	2025 Land Use Assumptions SU	10-Year Gröwth Users Sü	Impact Cost without Interest	impact Cost with Interest	2015 Existing Users SU	2025 Exces SU After 1 years
		Facility Size that Defines Capacity Addition	35" @ 0.12%	Rinard		10.152	8,344	18,496	10,022	1.01	1.65	357	484	126	128	233	357	9,538
2	3333.001	SAR Expansion & improvements Project (50 to 75 mgd)	25 mgd exp	SAR WWTP	2006	19.067	20,287											
2	3333.005	SAR Lift Station Interconnect Tunnel	25 mgd exp	SAR WWTP	2006	3,941	4,194											
2	3333 008	SAR New Electrical Substation and Miscellaneous Areas	25 mgd exp	SARWWIP	2007	13,238	14,085											
2	3333.007	SAR Train C North	25 mgd exp	SAR WWTP	2006	25,606	27.244											
	3333.007	SAR Train C North	25 mgd exp	SAR WWTP	2006	2.826	9											
2	3333,006	SAR Train C South	25 mgd exp	SAR WWTP	2006	23,217	24,703											
2	3333.008	SAR Train C South	25 mgd exp	SAR WWTP	2006	8,170	0											
		Facility Size that Defines Capacity Addition	25 m gd exp	SAR WWTP		94,064	90.513	164,577	83,893	1.12	2.20	185.275	231,306	46,030	51,611	101,273	0	37,863
2	3353.016	Akin High School Reimbursement	18"	Staughter	2000	459	0											
2		North Bank Upper Sloughter Cr.in1 A&B CC#3 MUD	36	Staughter	1988	1.650	1.756											
2	B223.132	Staughter Creek Interceptor Phases 1, 2A & 2B CC#3 MUD	48"/54"	Slaugh;er	1990	9.280	9.874											
2	8223,132	Slaughter Creek Interceptor 1 & 2 SO-MUD	48"	Slaughter	1990	701	746											
2	8223.134	Staughter North Branch Interceptor SO-MUD	30"	Slaughter	1990	1,595	1.697											
2	8223.135	Staughter Tunnel SO-MUD	54	Slaughter	1988	3,442	3 662											
2	89.0506	South Branch Interceptor and Extension CC#4 MUD	21730" .	Slaughter	1988	1,295	1,378											
		Facility Size that Defines Capacity Addition	54 @ 0.68%	Slaughter		18,422	19,113	37.534	70,340	0.26	0.53	19,872	23.201	3,329	872	1,776	19,872	47,140

s	6943.045	Upper Boggy Creek Wastewater Line Improvements	18-	Цррег Во д ду	2022	1,400	0											
		Facility Size that Defines Capacity Addition	18" @ 0.47%	Upper Boggy		1,400	, o	1.400	3,124	0.45	0.45	2,156	2.830	672	301	301	2,158	293
2	5028 003	RMMA-Abroont Rol WW Improve Phase Two (SER 2279)	15718724*	Оррег Ворду	2009	2,01 1	2.140											
2	5028 007	RMMA Redevelopment Catellus SER #2263	12*/15*	Upper Boggy	2012	447	476											
		Facility Size that Defines Capacity Addition	24" @ D.54%	Upper Boggy/Mueller		2,458	2616	5,074	7.211	0.34	0.70	1,111	2.214	1,103	378	776	1,111	4,997
2	4926.037	ACWP - Shoal Creek WW Improvements / 29th to 34th St.	8"/12"/66"	Upper Shoal	2006	12,270	13,055											
2	6943.053	Burrell Drive Wastewater Improvements	12*	Upper Shoal	2020	1,148	1.222											
		Facility Size that Defines Capacity Addition	66° @ 0.33%	Upper Shoal		13,418	14,277	27,695	83,678	0.16	0.33	25,114	31,368	6,273	1,006	2,076	25,114	52.290
2	3212.116	Hwy 290 & Airport Blvd WWL Relocation	15*	Upper Tannehill	2014	390	415											
		Facility Size that Defines Capacity Addition	15" @ 0.68%	Upper Tannehill		390	415	806	2.455	0 16	0.33	1,472	2,345	873	139	286	1,472	110
2	5028 007	RMMA SE WW Improvements (SER 2282)	15"/30"	Upper Tannehill	2012	2,539	٥											
2	5028 007	RMMA SE WW Improvements (SER 2232)	15730	Upper Tannshill	2012	3.091	3.289											
		Facility Size that Defines Capacity Addition	15" @ 1.10%	Upper Tannahill/Mueller		5,630	3.289	8.916	3 122	1.80	2 86	65	925	B60	1,551	2,457	85	2 197
2	3023 003	Walnut Creek WWTP	15 mgd exp	Walnut WWTP	2004	20.474	21,784											
2	3023.017	Walnut Creek WWTP 75 MGD Upgrade	15 mgd exp	Walnut WWTP	2004	10,002	0											
2	3023.017	Walnut Creek WWTP 75 MGD Upgrade	15 mgd exp	Walnut WW TP	2004	17,609	18,735											
2	4579.001	WALNUT CREEK WWTP, PH II	15 mgd exp	Walnut WWTP	2004	15.483	16,474											
		Facility Size that Defines Capacity Addition	15 mgd	Walnut WWTP		63,567	56,993	120,560	50,336	1.26	2.40	184,597	228.147	43,550	54,998	104,309	6,548	Note 1

(.	•• •• •••			(All costs in 1000)	s of dollars unle	ss preced	ed by "\$")				••••							
A	в	c	D	E	F	G	н	I.	J	ĸ	L	м	N	0	Р	q	R	S
Ref. Table	Project kl/ Map ID	Project Description	Size	Drainage Basin Faci≌y Arsa	Completion Date	Cost to Build	interest Cast	Total Cost to Build	Facility Design Capacity SU	Cosito Build per SU	Cost to Build per SU wilnterest	2015 Land Use Assumptions St/	2025 Land Use Assumptions SU	10-Year Growth Users SU	Impact Cost without Interest	Impact Cost with Interest	2015 Existing Users SU	2025 Excess SU After 10 years
2	23.7642	Upper Walnut Creek Ini Phases 3A 3B,4&5 NCAGC-MUD	12"/16"/30"/36"/42"/48"	Walnui	1987	6,253	6,653											усыз
2	3168.039	Waters Park Wastewater Relief Main	36	Walnut	2018	7.228	7,690											
		Facility Size that Defines Capacity Addition	48° @ 0.5%	Walnut		13,481	14,343	27.824	44,058	0,31	0.63	41,241	50,856	9.615	2.942	6,072	41.24	1 Note 1
2	3353.011	Dell 18	18"	Walnut	2000	652	Ø											
		Facility Size that Defines Capacity Addition	18" @ 0.5%	Walnut/Dell		652	0	652	3,222	0.20	0.20	2.098	3.200	1,102	223	223	2,098	22
2	3353,007	Jourdan's Crossing Service Extension (Samsung)	12*/18"/36"/48"	Walnut	1998	2,406	0											
		Facility Size that Defines Capacity Addition	48" @ 0.074%	Walnut/Samsung		2,406	0	2,406	16,950	0.14	0.14	360	455	94	13	13	360	16,495
2	6943.026	Barlon Creek Plaza Lift Station Downstream Improvements	15"	West Bouldin	2019	3,199	0								•			
2	3353.112	Del Curto Road Westewater Improvements (SER-3486R2)	15"	West Bouldin	2017	o	0											
2	3168.076	South Area Lift Station Improvements: Barton Creek Plaza	1MGD	Barton	2019	1.125	0											
		Facility Size that Defines Capacity Addition	15" @ 1.0%	West Bouldin		4,325	0	4,325	2,977	1.45	1.45	1,731	2,539	808	1,173	1,173	1,731	439
2	88.0553	North Williamson Creek Int & Easements WO MUD	42"	₩illiamson	1989	3,097	3,295											
2	4534.001	OAK HILL BR. OF WIMSON CRK.INTER	30"	Williamson	1989	1.533	1,631											
2	85.0836	South Williamson Trunk Phases 1 and 2 VWO- MUD	15724	Williamson	1989	919	978											
2	85,0777	W≩iamson Creek 30* WW Interceptor MR- MUD	30"	Williamson	1989	500	532											
2	4221.001	WILLIAMSON CREEK INT PH I	42	Williamson	1989	820	872											
2	6943.031	Williamson Creek Wastewater Interceptor	66*/72*	Williamson	2023	42,341	45,051											
		Facility Size that Defines Capacity Addition	72*	Williamson		49,210		101.570 1,119,882	98,154	0.50	1.03	41,287	47,676	6,388	3.203	6,611	41,28	7 50,479

1,119,882 Service Unit and System-wide Impact Cost Totals 99,819 176,135 337,790

\$ 2,572

Calculated rate revenue credit per state law (See Appandix B) -81.850
Resultant amount to be used for calculating maximum allowable Impact Fee 256,740

Maximum Allowable Impact Fee (\$256,740,000 / 99,819 service units)

Note 1 The main interceptor in this group will reach capacity in the 10-year planning period according to the standard criteria. By allowing the pipe to go beyond 80% full, it will provide capacity for growth during the remaining few years of the financing period, after which time it will move off the Impact Fee.

VIJ. MAXIMUM ALLOWABLE FEE CALCULATION AND RATE REVENUE CREDIT

Once the portion of facilities cost associated with the 10-year growth users is calculated for pressure zone and drainage basin analysis areas, the next step is summing these area costs to produce the total system growth cost -- the impact cost total. Then, in compliance with Section 395.014 (a) (7) of the law, a credit must be applied to take into account the contributions growth users will pay in rate payments that go towards financing the CIP growth projects listed on the tables.

In this update, the Austin-specific rate revenue credits are calculated for water and wastewater, based on the idea that in any future year the study period growth users make rate payments in proportion to their number as a percent of total rate payers. And by extension, the growth user contribution to any particular component of the rate requirements (in this case the set of growth projects) can be estimated using this percentage. Applying the year by year percentage of new growth users to the total amortized cost by year with defeasance savings of the growth projects each year, and then summing all years gives the rate revenue credit for the new users' share of the growth project rate payments. Note that the rate revenue credit calculation uses the same interest cost basis (30-year financing and 5.5% interest rate) that yields the individual project interest costs presented in Tables 1 and 2. The rate revenue credit spreadsheets are shown in Appendix A for water and in Appendix B for wastewater.

Using this method, the rate revenue credit for water is \$157,854,000 and for wastewater it is \$81,050,000. To complete the maximum allowable fee calculation, the rate revenue credits are subtracted from the impact cost totals and the result is divided by the total number of 10-year growth service units to arrive at system wide maximum allowable fees. As shown on Table 8, the water maximum allowable fee is \$4,752 per service unit. As shown on Table 9, the wastewater maximum allowable fee is \$2,572 per service unit.

Impact FeeUpdate Report Preparation and/or Analysis Team

City of Austin Austin Water

Bruk Berhanu

Ariel Brown

Stacey Burgtorf

Marisa Flores Gonzalez

Joseph Gonzales

James Grabbs

Katherine Jashinski

Lauren King

Margaret Lake

Teresa Lutes

Prachi Patel

Aurora Pizano

Andrew Powell

Christina Romero

Joe Smith

Ian Toohey

Pamela Torres

Martin Tower

Gabriela Ybarra

Appendix A Water Rate Revenue Credit Calculation

Method

Section 395.014 (a)(7) of the Impact Fee law requires that calculation of the maximum allowable fee include a rate revenue credit to account for the money new growth users will pay in rate payments that go towards financing the CIP growth projects. Utilities can calculate this credit and apply it to the calculated fee or, alternatively, can forgo the credit calculation by opting to use the statutory credit equal to 50% of the calculated impact fee. AW opted to calculate the credit.

The calculation method is based on the idea that in any future year the study period growth users make rate payments in proportion to their number as a percent of total rate payers. And by extension, the growth user contribution to any particular component of the rate requirements (the set of impact fee projects in this case) can be estimated using this percentage. Applying the year by year percentage of new growth users to the total amortized cost by year with defeasance savings of the growth projects each year, and then summing all years gives the rate revenue credit for the new users' share of the growth project rate payments.

Beginning in 2016, AW began using impact fee collections to defease outstanding debt to reduce scheduled debt service requirements as authorized by Local Government Code Chapter 395. These fees paid by the developers can only be used to pay the direct costs or the principal and interest on bonds issued for constructing capital improvements or facility expansions identified in the growth-related capital improvement plan. A defeasance is a method of using available cash to pay off outstanding debt early. The utility plans to continue annual defeasance transactions using impact fee collections to manage debt service requirements. As such, the rate revenue credit calculation includes a reduction of the total amortized cost for projected defeasance savings. As a result, these savings lower annual debt service requirements attributable to the use of impact fee collections to defease debt.

The rate revenue credit calculation is employed in developing the accompanying table. The three basic steps are:

1. Estimate the total cost of growth projects being financed each year during the financing life of the projects.

This is done in the top part of the table. Yearly totals are arrived at by adding together the amortized cost of the individual projects, beginning from the completion date of the earliest-built water project (1987) and carrying out to the end of the financing period for last-built project (2054). The amortization uses the same financing basis for project interest costs presented in CIP Tables 1 and 2 (30-year financing period and 5.5% interest rate). The resulting cost totals are shown in the row labeled Amortized Cost by Year with Defeasance Savings. These totals estimate the rate revenue requirements for the impact fee growth projects for each year. Only the amortized cost totals for year 2018 and beyond are shown for clarity since these are the only years during which the study period new growth users will make rate payments.

2. Determine the percentage that the new growth users are of the total rate payers for each year in the future.

As shown in the lower part of the table, the study period new growth users (expressed in service units from the Land Use Assumptions) begin arriving in 2017 and are tallied by year as they come on line. At the end of the 10-year planning period, year 2027, the results row labeled Study Period Total Service Units shows the same 99,251 cumulative total of 10-year new growth water service units used in calculating the project impact costs in Table 8. Beyond 2027 the number of new growth service units that are the subject of the rate revenue credit for the 10-year planning period remains constant, but their percentage of total service units continues to change.

The total system service units are tallied by year starting with the existing 2017 water service unit total (413,113) adding in the subject 10-year new growth users for the planning period of 2017 - 2027 as they come on line, and then continuing to the end of the financing period in 2054 with the addition of future growth projected to occur in the period beyond 2027. The resulting year by year number of total system service units is shown in the table in the row labeled Total Service Units. The percentage that the study period new growth users are of the total service units for each year in the future is readily calculated by dividing the Study Period Total Service Units by the Total Service Units. The resulting percentages are shown in the row labeled Growth Percent of Total Service Units. The study period growth users as a percent of total users rises to a maximum of 19% in 2027 and then declines to 13% at the end of the financing period of the last project in 2054.

3. Calculate the amount the new growth users will pay towards the growth projects for each year. The sum of all years is the rate revenue credit.

Applying the Growth Percent of Total Service Units to the Amortized Cost by Year with Defeasance Savings gives the results labeled New Service Units Amount of Amortized Cost for each year (bottom row of table). Summing across for all years gives the Rate Revenue Credit amount shown at the lower right-hand corner of the table.

Using this method, the water rate revenue credit is \$157,854,000. It is subtracted from the water impact project cost of \$629,515,000 developed in Table 8 in calculating the water maximum allowable fee. Note that the calculated rate revenue credit equates to 25% of the water impact project cost which compares to 36% used previously. It may be said that of the \$630 M in impact project costs (including interest), that are associated with serving new growth users in the 10-year planning period, \$158 M of that amount will come from new growth user rate payments, so only the remainder, \$472 M, goes into calculating the maximum allowable fee.

3135303 555555				1															
Cost by Year	2018	2019	2020	2021	2022	2023	2024	2025	20.26	2027	2028	2029	2030	2031	2032	2033	2004	2035	2036
1907 Total Control of the State)	* ***							-										
100.000 (000 (00.000 (52,231	i							-										
1930,106al (\$467, 200, 100, 100, 100, 100, 100, 100, 100	\$364	\$364																	
1992 Total 525 680 1990 Total 521 525 535 535 535 535 535 535 535 535 535	\$689 \$241	\$889 \$211	\$289 \$201	\$889 \$741	5241														
1996 Total 2010 Part 44 4 2 366	\$79	\$79	\$79	\$79	579	\$79	\$79	575											
1997/1021/2011 514.581 1985 Total 5	\$458 \$421	5453 5421	5458 5421	5458) 5421	5458 5421	3458 5471	568 501	5428 5421	5458 5421	\$421									
1999 Total	\$150	\$150	5150	5150	5150	\$150	\$150	5150	\$150	5:50	\$150			•					
2000 Total / \$73,491 2001 Tale / \$73,491	\$2,568 \$1,843	52,565 \$1,843	52.566 \$1,843	\$2,566 \$1,843	\$2,566 \$1,543	≌,565 \$1,843	52,565	52,566	\$2,566 \$1,843	\$2,566	S2,565 \$1,643	\$2.566 \$1.843	\$1,843						
2042 Total	\$1,643	\$136	\$135	\$136	\$1,545	\$136	\$1,843 \$136	\$1,843 \$126	\$136	\$1,843 5136	\$1,645	\$1,643	\$1,545 \$136						
2003 Total 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$1.15	5116	\$116	\$1 16	\$116	\$116	\$115	\$116	\$116	\$116	\$116	\$1 15	3116		\$116				
2004 Total \$7 929 2005 Total \$2,37	\$264 \$52	5264 552	\$264 \$52;	\$264 \$52	\$264 \$52	\$264 \$52	\$264 \$27	525-1 522	5264 \$57	\$264 \$52	\$264 \$52	\$264 \$52	\$264 \$52	\$264 \$67	\$264 \$52	\$264 \$52	557		·
2006 Total 2004 4	\$5.97	5597	\$567	\$597	\$597	\$597	\$ 567	\$597	\$.597	\$597	£97	\$567	\$597	\$597	¥97	£97	\$. 7	\$597	- 1
200 Toll 51 96	5408 544	5408 544	3408 ¹ 544	5408 544	540C 544	5406 544	3406 544	5408 544	5408 544	5406 544	5408 544	5406 544	5408 544	5406 544	\$488 \$44	5408 541	5436 544	\$406 \$44	5458 344
2000 Total of 200 and 5 528 127	\$944	\$944	5944	\$944	5944	\$544	\$944	5944	5944	944	5944	5934	\$962	\$944	5944	\$944	5944	\$944	5:44
and found a second se	\$117 \$8,534	\$117 \$8,534	\$117 \$8,534	5117 58,534	5117 \$21534	,\$117 \$8,534	\$117 \$8,534	5117 \$3.534	5117 \$8,534	\$117 \$8,534	\$7,17 \$8,534	\$117 \$8,534	5117 58,534	\$117 \$8,534	\$117	51 17 \$8534	5117 58,534	5117	5117 58.434
20mitotil, processor \$256,031 2017 Jour \$26	\$1,310	\$8,534 \$1,310	\$1,310	\$1,310	\$1.310	58, s. 4 54, 310	\$1,310	\$6,53 \$1,310	\$1, 310	\$1,310	\$6,534 \$1,310	51,310			\$8,534 \$1,310	56. \$1,310	\$1,310	\$8,534 \$1,310	56,4.4
200 Iosil (50	\$1,294	\$1,294	51,294	\$1,294	\$1,294	51,294	31,294	\$1,254	\$1,294	\$1,294	\$1,294	51,294	51,294	\$1,294	\$1,294	\$1.291	\$1,294	51,294	S1,254
71 M Total 523.225 21 15 Total 2	\$841 \$28,999	\$841 \$26,999	\$641 \$26,599	5841 \$26,999	5341 526,999	5841 \$36,999	\$541 \$26,069	\$641 \$26,969	\$841 \$26,999	\$241 \$26,999	\$241 \$25,999	5841 526,999	\$811 \$26,999	5041 126,999	1641 525,999	5941 526,999	\$841 526,959	\$841 \$25,959	\$241) \$26,969
7016 Total 2 / 3129 195	\$4,305	\$4,306	S4, 306	\$4,306	54,306	54,305	34,366	54,306	\$4,306	34 306	\$4,306	\$4,306	51,306	\$4,306	\$4,306	54 ,306	51,306	S4,305	54,3 C E
2017, total \$ 532,545 2019, total \$ 53,901	\$10,612 \$463	\$10,612 \$453	\$10,612 \$403	\$10,512	\$10,612 \$463	\$10.612 \$483	\$10,612 \$-63	\$10.612 \$463	\$10,612 \$463	\$10,612	\$10,612 \$463	\$10,612 \$483	\$10,612 \$453	\$10,612 \$463	\$10,612 \$463	\$10,612 \$463	\$10,612 \$463	\$10,612 \$4€3	510,612 5453
219 Iocil 10 4 5 5 5 13	~~~	\$705	\$705	\$705	5705	\$765	\$705	\$705	\$705	\$205	\$76	\$705	\$705	\$705	\$705	\$705	\$7%	\$7(5)	5705
2020 1020 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		\$ \$2	\$82 \$2.46	582 55-45	582 55.46	572 \$545	582 5546	\$82 \$545	382 1246	\$22 %≪	582 5546	582 \$546	582 5546	902 5246	582 \$746	582 25-5	582 55-6	572 \$545
2024 Total 4 54 7 12	1		1	2-40	\$ <u>.</u> -e	31.40	\$157	\$157	5157	\$157	\$157	5157	\$157	\$157	\$157	\$157	10-50 51-57	\$157	51-7
2025 Total 544.079	1							\$1,463	SR, 463	\$1,463	51,483	\$1,483	\$1, 4 83	\$1,463	\$1,453	51,483	\$1,463	\$1,453	St.483
Total Cost of Growth Project: \$2,244,157					-														1
Total Amortization Cost \$2,182,971	\$66,282	964,755	\$64,473	\$65,019	364,130	\$63 ESB	SEA DAS	\$65,47B	\$25,448	\$64,991	\$64,570	\$64,420	\$61,554	SED 011	\$* 9.87*	\$59,760	\$59,496	\$59,443	\$58,845
Dekasance Savings (583,084)	(23,199)	(22,664)	(22,565)	Q2,7571	(22,445)	(22,361)	(22,416)	(22,938)	(22,907)	(22,747)	(22,600)	(22547)	(21,649)	(21,001)	(20,95-6)	(20,916)	(20,823)	(20,005)	(20,598)
Amorband Costs by Year with Onleasance Savings \$1.589,588	10.00	\$42,091	\$41,907	\$42,282	\$41.604	\$41.527	541.830	\$42,580	\$12547	\$42,744	\$41,971	\$41,873	\$40.705	\$19.007	\$38,919	\$38,844	\$33.672	\$38,538	\$20.7.4
2017 Forward Cumulative Total	\$111,200]	\$153,360]	\$195,207	\$237,469	\$279,154	\$320,681	\$362,310	\$404,904	\$417,446	\$489,690	\$631,660	\$573,534	\$613,739	\$852,746	\$£91,665	\$738,509	S769,121	\$802,819	\$445,059
1987 Forward Currulative Total	\$560,102	\$602,193	\$644, 100	\$686.352	\$728,047	\$769,574	\$811 203	\$653,797	5096, 33 9	1938.583	980,663							\$1,256,712	
2017 E sisting Service Units	413,113	413,113	413,113	(13,113	413113	413.113	413,113	413,113	413,113	413,113	413,113	413,113	413,113	413,113	413.113	413,113	412113	413,113	43,115
2018 Rew Service lints	9,925	9,925	9,925	9.925	9,925	9,925	9,925	9,925	9,925	9,925	8,925	9,925	9.925	0.925	9,925	9,925	9,925	9,925	9,905
2019 New Service Units		9,925	9,925	9,925 9,925	9.925 9.925	9,935 9,925	9,925 9,925	9,925 9,925	9,925 9,925	9,925 9,925	9,925 9,925	9.92 ⁺ 9.925	9,925 9,925	9.925 9.925	9,525 9,525	9,925 9,925	9,925	9,935 9,925	9,925
2021 Rew Service Units		ľ		9.825	9,925	9,925	9,925	9,975	9,525	9,925	9.925	9,925	9.925	9,925	9,925	9 92 5	9,925	9,925	9,925
2022 Rem Service Units				-	9,925	9,925 9,925	9,925 9,925	9,925 9,925	9,925 9,925	9,905 9,925	9.925 9.925	9,925 9,925	9,925 9,925	9,925 9,925	9,925	9,925 9,925	9,925	9,925	9,905
2024 New Service Links	[1		2,753	9.925	9,925	9,525	9,925	9,925 9,925	9,925 9,925	9,925	9,925	9,225	9,925	9,925	9,925	9,525
2025 New Service Units 2026 New Service Units	ļ			1				9,925	9.525 9.525	9,925 9,925	9.925 9.925	9,925 9,925	9,925 9,925	9,925 9,925	9,925 9,925	9,925 3,925	9,925 9,925	9,925 9,925	9,905 9,925
2027 Rev Service Units	l			1	1				3,325	9,925	9,925	9,925	9,925	9,925	9,925	9,925	8,925	9.925	9,525
Study Period Total Service Units	9,925	19,850	29,775	39,700	49,626	£9,551	69,176	79,401	89,326	99,251	99,251	99,251	99,254	\$9,251	99,231	99,251	99,253	35,251	36,25 (
Total Service Units	423,038	432,963	442,688	452,814	452,739	472,664	482,589	492,514	502,409	512,354	522,014	531,563	541,313	550,962	568,612	578,262	575,911	569,561	569,218
Growth Percent of Total																-			
Service Units	2 3%	4,6%	6,7%	88%	10 7%	12.674	14.4%	16 1%	17.8%	19,4%	19.0%	13,7%	¥8.3%	18.0%	17.7%	87,4%	17.1%	16.6%	16.6%
New Service Units Accura			i	1		ļ		Į										1	i
of Amortizati Cost	\$1,011	\$1,920	\$2,817	\$3,705	\$4.470	\$5,7:2 ¹	\$5,663	\$6,667.	\$7,563	56,183	ST 960	57,817	\$7,372	\$7.027	SE,890	\$6,761	55 619	\$3,50	\$5,3%

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Cost by Year	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Sector by Use Instruction by Use	\$444 \$044 \$117 \$8,554 \$1310 \$1,284 \$405 \$70,612 \$405 \$70,612 \$1,310 \$1,284 \$10,612\$10,612\$1	\$044 \$117 \$6,534 \$1430 \$1,310 \$1,310 \$1,310 \$1,310 \$1,310 \$1,012 \$4,306 \$1,612 \$522 \$546 \$157	\$1117 \$8 534 \$1 28 534 \$1 290 \$1, 294 \$4, 206 \$10, 615 \$4, 206 \$4, 206 \$5, 206 \$4, 206	38, 534 \$1, 534 \$1, 204 \$4, 306 \$4, 0, 61 \$7,	\$1,310 \$1,204 \$1,204 \$10,612\$\$10,612\$\$	\$1,294 \$881 \$26 590 \$4,300 \$10,612\$10,612\$10\$10\$10\$10\$10\$10\$10\$10\$10\$10\$10\$10\$10\$		\$28,999 \$4,062 \$10,012 \$7463 \$7463 \$7463 \$7463 \$7463 \$72 \$546 \$157 \$1,483	\$4,306 \$10,012 \$705 \$705 \$1463 \$7463 \$7463 \$167 \$1,483	\$10.812 \$463 \$705 \$422 \$546 \$157 \$1,483	\$463 \$705 \$62 \$162 \$1453	\$705 542 546 \$157 \$1,463	\$02 \$546 \$167 \$1,463		\$157 \$1,483	\$157	\$157 \$1,483	\$1,483
Tatal Amortization Cost \$2,182,18 Debasance Savings (582,918			\$57,450 (20,107)	\$57,333 (20,067)	\$48,799 (17,080)	\$47,459 (16,621)	\$45,195 (16,168)	\$45,354 (15,874)	\$15,355 (6,424)	\$14,048 (4,917)	\$3,436 (1,202)	\$2.972 (1,040)	\$2.268 (794)	\$2,186 (765)	\$* 640 (574)			\$1,453 (519)
Amortized Costs by Year with Defeasence Sevings \$1,599,264	\$37,985	\$37,956	\$37,342	\$37,266	\$31,719	\$30,866	\$30,026	\$29,480	\$11,930	\$9,131	\$2,233	\$1,932	\$1,474	\$1,421	\$1,066	\$1,065	\$ 1,066	\$964
2017 Forward Cumulative Total 1987 Forward Cumulative Total	\$883,721		\$959,019		\$1,028,005	\$1,058,672		\$1,118,379 \$1,566,983				\$1,143,606 \$1,592,210					\$1,149,698	
1987 Forward Comutative Total 2017 Exitancy Service Units 2018 Rev. Sprace Units 2019 Rev. Sprace Units 2019 Rev. Sprace Units 2020 Rev. Sprace Units 2021 Rev. Sprace Units 2021 Rev. Sprace Units 2022 Rev. Sprace Units 2023 Rev. Sprace Units 2024 Rev. Sprace Units 2024 Rev. Sprace Units 2025 Rev. Sprace Units 2027 Rev. Sprace Units 2028 Rev. Sprace Units 2020 Rev. Sprace U	413, 113 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1608,660	\$1,370,281 413,113 8,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 5,925 9,925 5,925	\$1,407,624 413,113 6,025 9,020	413,113 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1,5,8%	413, 113 9, 025 9, 925 9, 925 1, 739	413.113 9.025 9.050 9.050 9.050 9.050 9.00	413,113 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 14 9%	413,113 9,025 9,025 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1,925 9,925 1,925 9,925 1,925 9,925 1,925 9,925 1,925 9,92	413,113 9,625 9,625 9,625 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,926 1,627,464	413.113 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1,697,385	413, 113 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 107,127	413,113 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 13,8%	413,113 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 9,625 13,6%	413,113 9,025 9,026 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 9,025 1,737,120	413,113 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1,747,051	413,113 9,825 9,826 9,926 9,925 9,925 9,925 9,925 9,925 9,925 9,925 9,925 1756,982	413.113 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 1766.914	413.113 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 9.925 1778,845
af Amortized Cost	\$6,192	\$6,091	\$5,900	\$5,799	\$4,860	\$4,658	\$4,464	\$4,318	\$1.722	\$1,300	\$313	\$267	\$201.	\$191			i \$138 Treidit (Pfier)	\$123

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Appendix B Wastewater Rate Revenue Credit Calculation

Method

Section 395.014 (a)(7) of the Impact Fee law requires that calculation of the maximum allowable fee include a rate revenue credit to account for the money new growth users will pay in rate payments that go towards financing the CIP growth projects. Utilities can calculate this credit and apply it to the calculated fee or, alternatively, can forgo the credit calculation by opting to use the statutory credit equal to 50% of the calculated impact fee. AW opted to calculate the credit.

The calculation method is based on the idea that in any future year the study period growth users make rate payments in proportion to their number as a percent of total rate payers. And by extension, the growth user contribution to any particular component of the rate requirements (the set of impact fee projects in this case) can be estimated using this percentage. Applying the year by year percentage of new growth users to the total amortized cost by year with defeasance savings of the growth projects each year, and then summing all years gives the rate revenue credit for the new users' share of the growth project rate payments.

Beginning in 2016, AW began using impact fee collections to defease outstanding debt to reduce scheduled debt service requirements as authorized by Local Government Code Chapter 395. These fees paid by the developers can only be used to pay the direct costs or the principal and interest on bonds issued for constructing capital improvements or facility expansions identified in the growth-related capital improvement plan. A defeasance is a method of using available cash to pay off outstanding debt early. The utility plans to continue annual defeasance transactions using impact fee collections to manage debt service requirements. As such, the rate revenue credit calculation includes a reduction of the total amortized cost for projected defeasance savings. As a result, these savings lower annual debt service requirements attributable to the use of impact fee collections to defease debt.

The rate revenue credit calculation is employed in developing the accompanying table. The three basic steps are:

1. Estimate the total cost of growth projects being financed each year during the financing life of the projects.

This is done in the top part of the table. Yearly totals are arrived at by adding together the amortized cost of the individual projects, beginning from the completion date of the earliest-built wastewater project (1987) and carrying out to the end of the financing period for last-built project (2053). The amortization uses the same financing basis for project interest costs presented in CIP Tables 1 and 2 (30-year financing period and 5.5% interest rate). The resulting cost totals are shown in the row labeled Amortized Cost by Year with Defeasance Savings. These totals estimate the rate revenue requirements for the impact fee growth projects for each year. Only the amortized cost totals for year 2018 and beyond are shown for clarity since these are the only years during which the study period new growth users will make rate payments.

2. Determine the percentage that the new growth users are of the total rate payers for each year in the future.

As shown in the lower part of the table, the study period new growth users (expressed in service units from the Land Use Assumptions) begin arriving in 2017 and are tallied by year as they come on line. At the end of the 10-year planning period, year 2027, the results row labeled Study Period Total Service Units shows the same 99,819 cumulative total of 10-year new growth wastewater service units used in calculating the project impact costs in Table 9. Beyond 2027 the number of new growth service units that are the subject of the rate revenue credit for the 10-year planning period remains constant, but their percentage of total service units continues to change.

The total system service units are tallied by year starting with the existing 2017 wastewater service unit total (399,204) adding in the subject 10-year new growth users for the planning period of 2017 - 2027 as they come on line, and then continuing to the end of the financing period in 2053 with the addition of future growth projected to occur in the period beyond 2027. The resulting year by year number of total system service units are shown in the table in the row labeled Total Service Units. The percentage that the study period new growth users are of the total service units for each year in the future is readily calculated by dividing the Study Period Total Service Units by the Total Service Units. The resulting percentages are shown in the row labeled Growth Percent of Total Service Units. The study period growth users as a percent of total users rises to a maximum of 20% in 2027 and then declines to 13% at the end of the financing period of the last project in 2053. 3. Calculate the amount the new growth users will pay towards the growth projects for each year. The sum of all years is the rate revenue credit.

Applying the Growth Percent of Total Service Units to the Amortized Cost by Year with Defeasance Savings gives the results labeled New Service Units Amount of Amortized Cost for each year (bottom row of table). Summing across for all years gives the Rate Revenue Credit amount shown at the lower right-hand corner of the table.

Using this method, the wastewater rate revenue credit is \$81,050,000. It is subtracted from the wastewater impact project cost of \$337,790,000 developed in Table 9 in calculating the wastewater maximum allowable fee. Note that the calculated rate revenue credit equates to 24% of the wastewater impact project cost which compares to 35% used previously. It may be said that of the \$338 M in impact project costs (including interest), that are associated with serving new growth users in the 10-year planning period, \$81 M of that amount will come from new growth user rate payments, so only the remainder, \$257 M, goes into calculating the maximum allowable fee.

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2007/00111	\$928 \$770		1				1					1						
2000(Tata) 2000(Tata) 2000(Tata)	\$1,260	\$770 \$1,280	\$1.260											1		i		
2010/0011 (33/085	\$133	\$133	\$133	\$133	1													
2012fic111 (30977 2009fic11) (319978	\$1,151 \$258	\$1,151 \$258	\$1,151 \$258	\$1,151 \$258	\$1,151; \$258	\$1,151 \$256	\$258											
2011(TOLD) 53(226	\$200	\$206 \$119	\$256 \$119	\$258 \$119	\$256 \$119	\$250	\$119	\$119										
201311-111 6102723	\$3.851	\$3,651	\$3,651	\$3,851	\$3,651	\$3,651	\$3,051	53 651	\$3,651				[
2010(Cata) 2017(Cata) 2017(Cata)	\$1.577; \$1,202	\$1,577 \$1,202	\$1,577 \$1,202	\$1,577 \$1,202	\$1,577 \$1,202	-\$1,677 \$1,202	\$1,577	\$1,577 \$1.202	\$1,577 \$1,202	\$1,577 \$1,202	\$1,202			1				
2010/70131	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454	\$1,454						
2019/0011 925/593	\$809 \$2,500	\$609	5609	\$609 \$2,500	\$809 \$2,500	\$808 \$2,500	\$609 \$2,500	\$809 \$2,500	\$809 \$2,500	\$809 \$2,500	\$809 \$2,500	\$609 \$2,500	\$800 \$2,500	\$2,500				
2020(1611) 970(004 2021(1611) 932(35	\$1,283	\$2,500	\$2,500 \$1,283	\$1,283	\$1,263	\$1,263	\$1,283	\$1,263	\$1,283	\$1,283	\$1,283	\$1,283.	\$1,283	\$1,283	\$1,283			
702277-0111 (31400	\$ 0,	\$0	\$0	S 0	\$0	50	50	50	\$0	\$0	50	\$0	\$0	\$0	\$0			
50206500 502206590 506650 5066552	\$4,337 \$450	\$4,337 \$456	\$4,337 \$456	\$4 337 \$450	\$4,337 \$456	\$4,337 \$456	\$4,337 \$458	\$4,337 \$456	\$4,337 \$458	\$4,337 \$456	\$4,337 \$456	\$4,337 \$456	\$4,337 \$458	\$4,337 5456	\$4.337 \$456	\$4,337 \$450	\$4,337 \$458	\$456
Total Cost of Growth Projects \$1,119,882 . \$85,119							1					ł						
Total Amortization Cost \$1,034,763 Defeasance Savings (238,372)	\$21.705 (5,729)	\$20,780 (6,442)	\$20,010 (6,203)	\$18,730, (5,608)	\$18,597; (5,765);	\$18,597, (5,785)	\$17,448 (5,408)	\$17,168 (5,328)	\$17,000 (5,291)	\$13,418 (4,160)	\$11,841 (3,871)	\$10,630 (3,298)	\$9.185 (2,847)	\$8,577 (2,659)	\$8,078 (1,884)	\$4,793 (1,466)	54,793 (1,488)	\$456 (141)
Amortized Cost by Year with		1	1				1					1	. 1	1				
Defeasance Savings \$796,391	\$14,977	\$14,338	\$13,807	\$12,924	\$12,832	\$12,832	\$12,038	\$11,860	\$11,778	\$9,259	\$8,171	\$7,341	\$6,338	\$5,918	\$4,193	\$3,307	\$3,307	\$315
2017 Forward Cumulative Total	\$403,435;	\$417,773	\$431,560	\$144,504	\$457,336	\$470,165	\$482,206	\$494,086	\$505,844	\$515,102	\$523,273	\$530,614	\$538,952	\$542,870	\$547,062	\$550,370	\$553,677	
1987 Forward Cumulative Total	\$645,833	\$660,171	\$673,979	\$686,902	\$699,735	\$712,587	\$724,605	\$736,465	\$748,242	\$757,691	\$765,672	\$773,013	\$779,351	\$785,268	\$789,461	\$792,769	\$796,078	\$786,391
2019/E12-IbmStretz-Walls	399,204	399,204	399,204	399,294	399,204	399,204	399,204	399,204	399.204	399,204	399,204	399,204	399,204	399,204	399,204	399,204	399,204	399,204
2018 NowSitvico (Inde	9,982	9,982	9,992	9,982	9,962	9,982	9,987	9,982	9,982	9,962	9,982	9,962	9,982	9,962	9,982	9,962	9,982	9 982
2015 New Environments 2020 New Environments	9,962 9,962	9,982 9,982	9,962 9,962	9,982 9,982	9,982 9,982	9,962 9,962	9,962 9,962	9,982 9,982	9,962 9.962	9,962 9,962	9,562 5.562	9,962 9,982 .	9,962 5,982	9,962 9,962	9,982 9,582	9,982 9,982	9,982 9,982	9.382 9.382
20210hw0nvlzn0ji20	9,962	9,982	9,962	9,982	9,982	9,982	9.98Z	9,982	9,982	9,982	9,962	9,962	9,982	9,962	9,982	9,962	9,982	9,982
2020,msCanterOnite 2020,msCanterOnite	9,962 9,962	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982	9,962 9,962	9,982 9,982	9,962 9,962	9 982 9,982	9,962 9,962	9,962 9,982	9,962 9,962	9,982 9,982	9 982 9,982
2020 Row Standing Contract Standing State	9,962 9,962	9,982	9,962	9,992	9.982	9,962	9,982	9,982	9,582	9,962	9,962	9,962	9,982	9,962	9,962	9,962	9,982	9,982
20130.0000000000000000000000000000000000	9,982	9,982	9,962	9,982	9.962	9,982	9.982	9,982	9.982	9 90Z	9.962	9,982	9.962	9,962	9,962	9,962	9,562	9,982
2730m2Coxter0mD 2010m2Coxter0m2	9,962 9,962	9,982 9,982	9,962 9,962	9,982 9,982	9 982 9,962	9,982 9,982	9,982 9,982	9,982 9,982	9.982 9.982	9,982 9,982	9.982 9.982	9,962 9,962	9,982 9,982	9,962 9,962	9,982 9,982	9,982 9,982	9,982 9,982	9,982 9,982
Study Period Total Service Units	99,819	89.819	69,619	99,819	69 810 J	99,819	69,819	99,819	65,810	99,B19	P9,819	99,519	BD 610	99,519	99,819	D9 819	99,819	99,519
Total Service Units	585,868	595,518	605,167	614,817	624,486	634,398	644,329	654,250	664,191	674,122	684,053	693,985	703,916	713,847	723,778	733,709	743,640	753,572
Growth Percent of Total Service		İ		- 1							1	1		I I				
Units	17.0%	16.8%	16.5%	18.2%	16.0%	15.7%	15.5%	15.3%	15 0%	14.8%	14 8%	14.4%	14 2%	14.0%	13.8%	13.8%	13.4%	13.2%
New Service Units Amount of			i	1		Į						1			i			
Amortized Cost	\$2,552	\$2.403	\$2,277	\$2,098	\$2.051	\$2,019	51 865 ¹	\$1,809	\$1.770	\$1,371	\$t.192	\$1,058 [!]	5899	\$828	\$578	\$450	\$444	\$42
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CIP-B-4

Appendix C
IP Projects Targeted to Meet Existing Needs 2018-2022—Wastewater

0EPT 2307	Subproject ID 1255.021	SubprojectName Blocks 2 & 4 Odor Abatement - Wastewater Collection System	Appropriation \$485,355	Expenditures \$86,349
2307	2231.065	Misc WW Rehabilitation projects	\$801,847	\$656,877
2307	2231.104	Annual Contracts for Lines Relay & Spot Rep	\$18,925,819	\$18,920,624
2307	2231.134	Palma Plaza Reroute	\$0	\$0
2307	2231.183	South Austin SSO	· \$1,832,340	\$1,793,536
2307	2231.211	Real Estate Svcs-Existing WW Pipelines	\$129,800	\$44,735
2307	2231.212	Wastewater Manhole Rehab	\$4,319,100	\$4,198,798
2307 2307	2231.213 2231.221	In-Situ Rehab & Replacement - cash funded Future Wastewater Pipeline Replace/Rehab	\$10,284,046 \$0	\$10,284,046 \$0
2307	2231.221	Future Ww Pipeline Replace/Rehab-Awu Crews	\$0 \$0	\$0 \$0
2307	2231.225	Rehabilitation of WW lines-EPA SAAP Grant	\$5,645,689	\$3,058,148
2307	2231.231	WW Manhole Rehab ID/IQ	\$1,156,373	\$323,467
2307	2231.24	Old Enfield - Niles And Newfield Area Neighbrhd Ww	\$261,700	\$81,185
2307	2231.263	Rehabilitation of Walnut Creek 72" Siphon Box	\$0	\$0
2307	2231.264	WW-Rehab CIPP High Priority 1 Projects Group A	\$1,600,446	\$1,174,834
2307	2231.265	Wastewater Collection System Replacement Lines Group A	\$738,942	\$507,477
2307	2231.266	Wastewater Collection System Replacement Lines Group B	\$945,878	\$677,569
2307	2231.268	Large Wastewater Interceptors - Assess and Rehab	\$844,843	\$466,444
2307	2231.274	Schulle Branch Creek Aerial Wastewater Pipeline Crossing Ren	\$258,665	\$71,312
2307	2231.275	WW Relay and Spot Repair Service Contract IDIQ (2017-2019)	\$6,000,181	\$3,770,379
2307	2231.276	Wastewater Renewal Program-Pipelines (Idiq) Targeted Wastewater Line Improvements - Town Lake Basin	\$0 5115 314	\$0
2307 2307	2231.28 2231.301	WW Line Renewal And Spot Rehab IDIQ	\$115,314 \$100,000	\$74,551 \$4,947
2307	2231.301	Fort Upper Basin Wastewater Pipeline Renewal	\$125,314	\$74,594
2307	2231.306	In Situ Wastewater Pipeline Renewal Group B	\$3,593,377	\$512,426
2307	2231.308	Wastewater Pipeline Replacement Program: Group C	\$90,103	\$75,930
2307	2231.314	In Situ Wastewater Line Renewal Program (2018 to 2020)	\$1,084,767	\$47,300
2307	2231.319	Targeted Ww Line Improvements - Town Lake Basin Group B	\$0	\$0
2307	2231.32	Targeted Wastewater Line Improvements - South Boggy Basin	\$0	\$0
2307	2231.321	Targeted Wastewater Line Improvements - Buttermilk Basin	\$0	\$0
2307	2231.322	Targeted Wastewater Line Improvements - Lake Austin Basin	\$0	\$0
2307	2231.323	Targeted Wastewater Line Improvements - Boggy Lower Basin +	\$0	\$0
2307	2231.324	Targeted Wastewater Line Improvements - County Club Basin	\$0	\$0
2307	2231.325	Targeted Wastewater Line Improvements - Little Walnut Basin	50	\$0
2307	2231.326	Targeted Wastewater Line Improvements - Williamson Basin	\$0 \$550,000	\$0 \$430
2307 2307	2231.327 2231.328	Targeted Wastewater Line Improvements - Bull Creek Basin Targeted Wastewater Line Improvements - Dapz	\$550,000	\$430 \$0
2307	2231.329	Targeted Ww Line Improvements - Red River 12th To 6th St	\$0	\$0 \$0
2307	2231.33	Targeted Ww Line Improv - Red River 6th St To Cesar Chavez	\$0	50
2307	2231.343	Renewal Of Critical Wastewater Assets – Walnut Basins	50	\$0
2307	3023.019	Walnut Creek Wwtp Headworks Improvements	\$0	\$0
2307	3023.021	Walnut Creek WWTP Plant Control System Upgrade	\$231,622	\$230,811
2307	3023.022	Walnut creek Pumping System Improvements	\$1,919,578	\$1,220,813
2307	3023.023	Walnut Creek Ventilation/Odor Control	\$0	\$0
2307	3023.025	Walnut Creek WWTP Tertiary Filter Rehabilitation	\$34,786,162	\$10,811,756
2307	3023.026	Walnut Crk WWTP Outfall Bank Erosion Ph 2	\$1,823,818	\$1,815,085
2307 2307	3023.03	Wc Electrical Loop Switched Ph3 Walnut Creek WWTP Sludge Trf Line	\$0	\$0 (1.112
2307	3023.033 3023.035	Walnut Creek WWTP Thickener Building Rehab	\$30,000 \$1,472,116	\$1,113 \$635,349
2307	3023.036	Walnut Crk Prim. & Sec. Clarifier Rehab	\$0	\$0
2307	3023.039	Walnut Creek WWTP Stormwater Improvements	\$2,626,924	\$2,193,460
2307	3023.04	Walnut Creek Influent Bank Stabilization	\$1,652,240	\$1,629,508
2307	3023.041	Wc Wwtp Lab & Adm Bldg Hvac-P1	\$3,027,464	\$1,337,215
2307	3023.042	Wc Wwtp Lab & Adm Bldg Hvac-P2	\$0	\$0
2307	3023.046	Wewwtp 100 Mgd Expansion	\$0	\$0
2307	3023.051	Walnut Creek Wwtp Disinfection System Improvements	\$0	\$0
2307	3023.057	Walnut Creek Wwtp Scada Update	\$0	\$0
2307	3023.058	ADP - Walnut Creek Facilities Improvements	\$315,000	\$263,847
2307	3023.059	Walnut Creek Wwtp Influent Lift Station	\$0	50
2307	3023.06	Walnut Creek WWTP Safety and Process Impr Project-ADP (IDIQ) Walnut Creek Wwtp Pumping Systems Improvements - Phase li	\$119,598 \$0	\$119,598 \$0
2307 2307	3023.061 3023.052	Walnut Creek Wwtp Pumping Systems Improvements - Phase II Walnut Creek Wastewater Plant Elevator Replacement	\$188,228	\$0 \$188,228
2307	3023.063	Walnut Creek WWTP Radio Antennae Improvements	\$623,660	\$588,825
2307	3023.064	Walnut Creek WWTP Bar Rack Replacement	\$155,000	\$0
2307	3023.065	Walnut Creek WWTP Settled Wastewater Pump Replacement	\$350,000	\$0
2307	3023.056	Walnut Creek WWTP Scrubber Rehabilitation	\$467,256	\$143,233
2307	3023.067	Walnut Creek WWTP Optimization And Facility Plan	\$2,065,570	\$601,286
2307	3023.068	Walnut Creek WWTP Process Area Door Replacements	\$0	\$0
2307	3023.069	Walnut Creek WWTP Maintenance Storage Building Replacement	\$75,000	\$69,589
		Walnut Creek WWTP Septic Hauler Prescreening Facility	\$0	\$0

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Jack at Bog can be able of the able able of the able of the able able able of the able of the able	2307	3164.065	Hb Wwtp Lab & Adm Bidg Hvac-P1	\$0	\$0
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1307 136.07 Honsykpand Graudwater Mankenig Wells 544.28 549.28 2307 136.07 Honsykpand Inkaes Serves an Inprovements 50 90 2307 136.07 Honsykpand Inkaes Serves an Inprovements 50 90 2307 136.07 Honsykpand Inkaes Serves an Explacement 50 90 2307 136.08 Honsykpand Inkaes Serves an Explacement 50 90 2307 136.08 Honsykpand Inkaes Serves an Explacement 50 90 2307 136.08 Honsykpand Inkaes Serves an Explacement 50 533.397 2307 136.08 Honsykpand Bree Millightom Pres 530.30 535.780 2307 136.08 Honsykpand Bree Millightom Pres 50 50 2307 136.08 Honsykpand Bree Millightom Pres 50 50 2307 136.08 Honsykpand Bree Millightom Pres 50 50 2307 136.09 Honsykpand Bree Millightom Pres 50 50 2307 136.09 Honsykpand Bree Milightom Pres 50 </td <td>2307</td> <td>3164.071</td> <td>Hornsby Bend Pond Remediation</td> <td></td> <td></td>	2307	3164.071	Hornsby Bend Pond Remediation		
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2307 3168.103 Old Lampasas Lift Station Pump Around Vault \$5,000 \$0			•		
2307 3166.104 IUIL-VAIVE REplacement at Boston Lane Lift Station \$4.29 \$429					
	2307	3168.104	ioių-vaive keplacement at boston Lane Litt Station	3423	

DEPT	Subproject ID 3168.107	Subproject Name IDIQ-Gonzales Lift Station Pump Replacement	Appropriation \$90,097	Expenditures \$90,097
2307 2307	3168.108	Walnut Creek Business Park Lift Station Rehabilitation	\$559,638	\$485,695
2307	3168.11	IDIQ-Brittlyns Court Lift Station Improvements	\$13,198	\$13,198
2307	3168.112	IDIQ-Westview at Lake Austin Lift Station Improvements	\$59,998	\$59,998
2307	3168.114	Improvements at Spicewood Parkway Lift Station	\$500,000 \$0	\$439,028 \$0
2307 2307	3168.115 3168.116	Coomer Path Lift Station Pump Upgrades Kale Lift Station Improvements	50	30 \$0
2307	3168.117	Walsh Tract Lift Station Improvements	\$0	\$0
2307	3168.118	Northwest Lift Station Improvements Phase 2	\$0	\$0
2307	3168.119	Bull Creek Area Lift Station Improvements	· \$0	\$0
2307	3168.12	Developer Lift Station Inspector Services - Hills Bear Creek	\$32,316	\$32,316
2307	3168.121	Developer Lift Station Inspector Services - Pilot Knob Commo	\$39,614	\$39,614
2307	- 3168.122	Developer Lift Station Inspector Services - Bayshore Bend	\$41,026	\$41,025
2307	3168.123	Developer Lift Station Inspector Services - Harris Ridge	\$33,575	\$33,575
2307	3158.124	Davis Springs #2 Lift Station Demolition	\$0	\$0
2307	3168.125	Fema Springfield Mitigation	\$163	\$163
2307	3168.126	William Wallace Way Lift Station Demolition	\$50,000	\$0
2307	3168.127	Nuckols Crossing Lift Station Demolition	\$0	\$0
2307	3168.128	Bradshaw Crossing Lift Station Demolition	\$0	\$0
2307	3168.129	Circle C #1 Lift Station Demolition	\$0	\$0
2307	3168.13	Developer Lift Station Inspector Services-Taylor Lane WWTP	\$34,372	\$34,372
2307	3168.131	Hidden Bluff Lift Station Demolition	\$0	\$0
2307	3168.132	Scotland Well Lift Station Wet Well Cleaning (IDIQ)	\$100,000	\$95,705
2307	3168.134	Developer LS Inspector Services - Pearce Ln Influent Lift St	. \$35,317	\$35,317
2307	3168.135	Fort Dessau Lift Station Jib Crane Installation	\$3,953	\$3,953
2307	3168.136	Hills of Bear Creek Lift Station Jib Crane Installation	\$25,000	\$0
2307	3168.137	Rock Harbor Lift Station Wet Well Rehab	\$33,812	\$33,812
2307	3168.14	Southland Oaks Lift Station Flood Rehabilitation	\$543,000	\$514,757
2307	3168.141	Boggy Creek East Lift Station Pump Study	\$0	\$0
2307	3168.143	. Rock Harbor Lift Station Emergency	\$21,158	\$21,158
2307	3212.125	Future Ww Pipeline Relocation-External	\$0	\$0
2307	3212.138	Upper Brushy Creek WCID WWL Relo at Dam 7	\$3,872,444	\$3,340,111
2307	3333.01	SAR WWTP Plant Control System Upgrade	\$166,000	\$81,608
2307	3333.015	SAR Tertiary Filters	\$29,501,386	\$25,200,680
2307	3333.016	SAR Thickener Improvements	\$9,241,660	\$6,088,751
2307	3333.017	SAR Replace Drives on A & B Clarifiers	\$8,954,364	\$2,283,382
2307	3333.021	Sar Expansion To 100 Mgd	50	\$0
2307	3333.027	Sar Oil Storage Facilities	\$0	\$0
2307	3333.028	SAR Replace Trains A & B Blowers	\$28,754,772	\$23,\$96,107
2307	3333.029	Sar 500-Yr Storm Berm Improvement	\$0	\$0
2307	3333.03	Sar Replace Sulfinator & Evaporator	\$0	\$0
2307	3333.032	SAR Electrical Sub-station 1 Replacement	\$3,325,811	\$2,160,181
2307	3333.034	SAR LS2 Debris Removal	\$410,454	\$410,454
2307	3333.041	SAR Chlorine Release Recovery Project	\$1,642,379	\$1,616,937
2307	3333.044	Sar Train A/B 2nd Trtmnt/Disinfect	\$0	\$0
2307	3333.045	ADP-SAR Train A/B Acration Basin Crack Repair	\$35,154	\$35,154
2307	3333.047	SAR Trains A, B and C Flow Equalization Basins (FEB) - Rehab	\$0	\$0
2307	3333.049	Sar Plant Modifications For Biological Nutrient Removal (Bnr	\$0	\$0
2307	3333.05	SAR Valve and Gate Replacement - Phase 2	\$0	\$0
2307	3333.052	SAR Blower Valve Rehabilitation	\$93,281	\$88,569
2307	3333.053	Sar Thickener Improvements - Phase 2	. \$0	\$0
2307	3333.054	Sar Influent Flow Split (Ifs) Grit Removal	\$0	\$0
2307	3333.058	Flood Control Drainage Bank	\$63,264	\$63,264

DENT	Cubunglast IO	Cubaralast Nama	Appropriation	Expenditures
DEPT 2307	Subproject ID 3333.06	Subproject Name SAR DO/Ammonia Process Control	Appropriation \$0	\$0
2307	3333.062	SAR Alkainity Feed	\$0	\$0
2307	3333.066	South Austin Regional WWTP Reuse And Yard Piping Improvement	\$207,082	\$206,014
2307	3333.067	South Austin Regional WWTP Blower Air Piping Connection	\$115,000	\$105,751
2307	3333.068	South Austin Regional WWTP Outfall Repair	\$5,948	\$5,948
2307	3333.069	South Austin Regional WWTP Train A&B Return Activated Sludge	\$545,695	\$545,695
2307	3333.07	South Austin Regional WWTP Gas Meter and Sensor Replacement	\$75,681	\$75,681
2307	3333.073	South Austin Regional WWTP Scrubber Rehabilitation	\$512,819	\$141,899
2307	3333.075	SAR Train Bb Clarifier Conduit Rehabilitation	\$92,110	\$92,110
2307	3333.076	Sar Train A & B Yard Lighting Improvements	\$61,182	\$61,182
2307	3333.077	South Austin Regional WWTP Restroom Rehabilitation	\$0	\$0
2307	3333.078	South Austin Regional WWTP Abandoned House Demolition	\$0	\$0
2307	3333.081	Sar Installation Of Fire Alarm System - Admin Bidg	\$0 \$0	\$0
2307	3333.082	South Austin Regional Administration Building HVAC Controls	\$0 \$0	şo
2307	3333.083	SAR Treatment Plant Lighting Rehabilitation and Retrofit	50	50 50
			\$506,000	şu \$102,131
2307	3353.098	Block 18 Alley Wastewater Relocation		
2307	3353.107	18-Inch Wastewater Main Easement Acquisition	\$3,232,083	\$0
2307	3353.11	William Cannon Developer Improv - Construction Inspection	\$14,075	\$14,075
2307	4598.006	Annexed Area 4480 Parent	\$198,999,606	\$0
2307	4598.007	Annexed Area 4570 Parent	\$219,174,869	\$0 60
2307	4598.012	Texas Water Development Board	\$270,883	\$0
2307	4716.002	ROCIP V Program	\$0	\$171,393
2307	4716.003	Rocip VI Program	\$2,000,000	\$1,335,375
2307	4769.011	Upper Harris Br Ww Interceptor	\$766,702	\$619,140
2307	4769.017	Upper Gillieland Interceptor-18 inch	\$99,410	\$99,409
2307	4769.019	Upper Gillieland Interceptor-24 inch	\$78,421	\$78,420
2307	4769.021	Northeast Regional WWTP	\$257	\$257
2307	4857.019	STAA-Springwoods Noπ-MUD (WW)	\$1,492,374	\$1,492,011
2307	4857.026	North Acres-Wastewater Tunnel	\$5,838,782	\$5,838,782
2307	4927.007	Canterbury, Hwy, Bergstrom Shafts and Lateral Rehab	\$5,596,186	\$5,596,185
2307	4927.008	Canterbury LS Demo	\$1,637,547	\$1,636,612
2307	4927.015	Lockheed Shaft Rehabilitation	\$4,547,191	\$4,526,656
2307	4954.007	Bluffington LS #2, #3, & #4 Upgrades	\$1,567,813	\$1,567,813
2307	5217.018	Town Lake Metro Park	\$2,500	\$2,500
2307	5873.01	Wm Cannon Railroad Overpass	\$9,266	\$9,265
2307	5873.036	Wickersham Bridge Protection of 24" Wastewater Line	\$37,000	\$37,000
2307	6621.007	Walnut Crk Wwtp Security Improvs	\$1,018,793	\$0
2307	6621.008	Hornsby Bend Security Access System Upgrade	\$884,000	\$882,686
2307	6621.009	SAR Security Phase II	\$800,000	\$297,127
2307	6621.014	Govalle Security Access System Upgrade	\$32,239	\$32,239
2307	6943.002	Onion Interceptor Upgrade-Slaughter to Tunnel	\$0	\$0
2307	6943.003	Lower Tannehill Interceptor	\$0	\$0
2307	6943.005	Rinard Creek Interceptor	\$0	\$0
2307	6943.006	Sunchase Creek Crossing	\$0	\$0
2307	6943.007	Rinard To Onion	\$0	\$0
2307	6943.008	Onion Interceptor (Bear Creek to IH 35)	\$0	\$0
2307	6943.009	Garland Park (Interim)	\$0	\$0
2307	6943.01	Dry Creek Upper Forks Trib	\$0	\$0
2307	6943.011	Dry Creek Upper	\$0	\$0
2307	6943.012	Dry Creek Lower Trib - Conceptual	\$0	\$0
2307	6943.014	Wolf Ranch Segment 1	\$0	\$0

DEPT	Subproject IO	Subproject Name	Appropriation	Expenditures
2307	6943.015	Stonelake Upper Segment 1	\$0	\$0
2307	6943.016	WW system Flow Monitoring and Analysis	\$0	\$0
2307	6943.017	Parmer and Hwy 290	\$0	\$0
2307	6943.018	Mueller West Branch	\$0	\$0
2307	6943.019	Mueller Airport Redevelopment	\$0	\$0
2307	6943.02	Walnut Creek WWTP to SAR WWTP Flow Transfer	\$68,660	\$47,960
2307	6943.021	Equivest North	\$0	\$0
2307	6943.023	Onion Interceptor Segment 2-Etj To Bear	\$0	\$0
2307	6943.024	Robinson Ranch Walnut Interceptor	\$0	\$0
2307	6943.027	Walnut Creek Siphon Odor Control	\$303,896	\$170,242
2307	6943.028	Onion Creek Tunnel Odor/Corrosion Control Improvements	\$0	\$0
2307	6943.03	Crosstn, Big&Little Walnt, On Crk Tunnel Ventilation Study	\$305,751	\$305,751
2307	6943.037	Waller Upper Basin Wastewater Improvements	\$0	, \$0
2307	6943.038	Shoal Upper Basin South Wastewater Improvements	\$0	\$0
2307	6943.039	Shoal Upper Basin North Wastewater Improvements	\$D	\$0
2307	6943.04	Wastewater Collection Systems Improvements Future Program	\$0	\$0
2307	6943.042	Sanitary Sewer Evaluation Targeted Studies CT-17 and GT-31	\$1,442,995	\$555,161
2307	6943.044	Sanitary Sewer Evaluation Study - Onion Tunnel Areas	\$0	\$0
2307	6943.046	Sanitary Sewer Eval Study - Walnut And Little Walnut Basins	\$847,500	\$12,701
2307	6943.047	Review Of Collection System Odor & Corrosion Control Systems	\$363,040	\$12,117
2307	6943.048	Canterbury Lines	\$0	\$0
2307	6943.049	Thousand Oaks Interceptor	\$0	\$0
2307	6943.05	Onion Creek Odor Control Facility Stream Bank Stabilization	\$422,826	\$114,212
2307	6943.051	Walnut Interceptor Odor And Corrosion Improvements	\$898,050	\$446
2307	6943.052	Boggy Lower Basin Inflow And Infiltration Study	\$358,596	\$55,644
2307	7235.001	New Central Library Wastewater Service	\$243,526	\$240,171
2307	7265.005	Pkg WWTP Rehab	\$326,803	\$326,802
2307	7265.007	Onion Creek WWTP Demolition	\$1,241,985	\$1,157,560
2307	7265.009	Lost Creek Pkg Plant Rehab	\$1,219,031	\$953,355
2307	7265.012	Harris Branch WWTP Decommissioning	\$598,267	\$507,481
2307	7265.015	Wildhorse Wwtp Expansion To 2.25 Mgd	\$0	\$0
2307	7265.016	Anderson Mill WWTP Relief	\$483,000	\$216,493
2307	7265.019	Pearce Lane Wwtp Expansion	\$0	\$0
2307	7265.02	Taylor Lane Wwtp Expansion	\$0	\$0
2307	7265.021	North East Package Plant Rehab	\$299,093	\$299,093
2307	7265.025	IDIQ-Dessau WWTP Generator Standby Installation	\$64,948	\$59,130
2307	7265.026	IDIQ-NE WWTP Generator Standby Installation	\$70,696	\$65,806
2307	7265.027	Dessau WWTP Expansion to 1.5 MGD	\$0	\$0
2307	7265.029	Lost Creek WWTP Electric Duct Bank Installation	\$389,355	\$366,261
2307	7265.03	Thoroughbred Farms WWTP Disinfection and Lift Station Improv	\$292,788	\$292,787
2307	7265.033	Dessau WWTP Clarifier Drive Replacement	\$204,432	\$203,010
2307	7265.035	Balcones WWTP Effluent Box Replacement (IDIQ)	\$162,055	\$162,055
2307	7265.036	Dessau Wastewater Treatment additional Headworks Box	\$0	\$0
2307	7265.038	Thoroughbred Farms Memorial Day 2016 Flood Recovery	\$85,632	\$85,632
2307	7265.039	Thoroughbred Farms WWTP Hypochlorite Improvements	\$95,000	\$43,244
2307	7265.041	Decentralized Treatment Reuse Pilot	\$0	\$0

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Appendix D	
CIP Projects Targeted to Meet Existing Needs 2018-2022-Water	

DEPT	SubprojectID	Subproject Name	Appropriation	Expenditures
2207	757.007	Waller Crk Ctr - Improvemts Misc	\$1,235,288	\$1,235,287
2207	757.008	Webberville - Chiller - Refrigerant Monitor	\$1,467,002	\$1,467,000
2207	757.028	Facility Master Plan Study - Water	\$800,000	\$67,726
2207	757.029	Waller Creek Center - Tenth Floor Renovation	\$0	\$0
2207	757.03	GBSC-Radio Console & Modular Sys Replmt	\$729,465	\$717,031
2207	757.034	Glen Bell Service Center - Fire System Upgrade	\$178,654 \$72,922	\$178,653 \$72,922
2207 2207	757.036 757.037	Waller Creek Center - Fire Monitoring Workstation Waller Creek Center - Curtain Wall	\$204,545	\$51,023
2207	757.039	Waher Creek Center Fourtain Wah Webberville Service Center-Tech Shop Replacement	\$0	\$0
2207	757.041	Waller Creek Center Parking Garage improvements	\$157,874	\$157,874
2207	757.042	Glen Bell Service Center HVAC Replacement	\$240,572	\$240,572
2207	757.045	Waller Creek Center Controls - Water	\$494,478	\$494,477
2207	757.046	Waller Creek Center Plumbing Code Compliance	\$17,897	\$17,897
2207	757.047	Webberville Improvements-Water	\$0	\$0
2207	757.048	Glen Bell Service Center Improvements Program	\$0	\$0
2207	757.049	ESC Misc Improvements	\$0	- \$0
2207	757.05	North Service Center Improvements Program	\$0	\$0
2207	757.051	South Service Center Future Program	\$0	\$D
2207	757.052	Summit Lab Fire Alarm System Replacement - Water	\$30,912	\$30,912
2207	757.053	Waller Creek Center - 9th Floor Renovation	\$320,000 \$245,491	\$49,780 \$245,490
2207	2006.001 2006.004	Pump Station Improvements Real	50	\$243,490 \$0
2207 2207	2005.004	Ullrich Pump Station- West Rim retired Facility Decommissioning-P\$	\$556,885	\$555,884
2207	2006.013	Far South Zone Pump Station	\$0	\$0
2207	2006.014	Spicewood Sprgs PS 24 inch TM	\$4,569,087	\$4,410,099
2207	2006.018	Retired Facility Decommissioning Phase 8	\$1,811,624	\$1,714,140
2207	2005.019	Pressure Point Improvements	\$\$44,239	\$305,319
2207	2006.02	Lookout Pump Station Improvements	\$594,196	\$342,040
2207	2006.021	Davis Lane Cooling Towers	\$691,800	\$562,937
2207	2006.022	East Austin Pump Station Improvements	\$1,258,051	\$1,113,956
2207	2006.023	Guilford Cove Pump Station Improvements	\$70,293	\$70,231
2207	2006.024	Glenlake Pump Station Decommissioning	\$386,944	\$265,351
2207	2006.026	IDIQ-Howard Lane Pump Station Improvements	\$434,705	\$368,622
2207	2006.028	South Service Center Uninterupted Power Supply Replacement	\$95,000 \$110,467	\$16,041 \$110,467
2207 2207	2006.029 2006.03	Jollyville Pump Station Land C Improvements South Service Center HVAC Rehab	\$454,538	\$454,538
2207	2006.031	Martin Hill Pump Station	\$0	\$0
2207	2006.033	Mt. Larson Hydro Tank Replacements	\$180,334	\$135,230
2207	2006.034	Leuthan Lane Pump Station Improvements	\$50,000	\$3,752
2207	2006.035	Davis Lane Pump Station I&C And Scada Improvements	\$220,000	\$171,507
2207	2006.036	Spicewood Springs Pump Station Mechanical And 1&C Improv	\$0	\$0
2207	2006.037	Jollyville Pump Station Hydraulic And I&C Improvements	50	\$0
2207	2006.038	East Austin Pump Station Hydraulic And I&C Improvements	\$0	\$0
2207	2006.039	River Place Water Treatment Plant Decommissioning	\$0	50
2207	2009.011	Green WTP Decomm TM Relocation	\$1,645,002	\$1,645,002
2207	2009.012	Green WTP Environmental Decomission	\$2,733,824	\$2,733,824
2207	2015.006	Davis WTP Power Distrib Upgrade Davis/Ullrich LSPS Intake, Wetwell Hydraulics Rohab	\$33,924,296 \$2,169,479	\$12,816,839 \$1,562,631
2207 2207	2015.017 2015.019	Davis CONCELSES Intake, wetweil hydraulics kenab Davis SCADA System	\$257,000	\$214,587
2207	2015.025	Davis SCADA System Davis Wtp Power Dist Upgrade Phase B	\$0	\$0
2207	2015.025	Davis WTP Main Power Feed Replacement	\$4,659,976	\$4,659,976
2207	2015.027	Davis Wtp Non-Gas Chlorine Systems	\$0	\$0
2207	2015.028	Davis Wtp Sludge Disposal Improvs	\$3,149,706	\$3,128,293
2207	2015.03	Davis Chemical Feed Pumps	\$1,758,486	\$1,747,022
2207	2015.04	Davis - Alternate Delivery Projects	\$0	\$0`
2207	2015.041	Davis WTP-TWD-Med 5vc PS	\$50,860,298	\$16,023,890
2207	2015.048	Davis Chemical Feed System Improvements Pkg 3	\$38,254	\$37,710
2207	2015.051	Davis WTP CO2 Tanks, Guard Station, and Misc Facility Impr	\$550,489	\$526,612
2207	2015.052 2015.053	Emergency Davis WTP Chemical Bldg Transformer Replacement Davis Rapid Mix Improvements (IDIQ)	\$175,754 \$1,579,360	\$166,139 \$1,579,360
2207 2207	2015.055	Davis Replaining Inprovements (1014) Davis Water Treatment Plant - High Service Pump Station Powe	\$406,530	\$406,530
2207	2015.056	Davis WTP Lubricant Storage Shed and Handling Equipment	\$50,000	\$0
2207	2015.057	Davis WTP Surge Vault Improvements	· \$91,923	\$31,559
2207	2015.058	Davis Wtp Chemical Bidg Chlorine & Ammonia Leak Detection	\$134,000	\$0
2207	2015.059	Davis Wtp Co2 Tanks Pressure Relief Valve Improvements	\$32,419	\$0
2207	2015.06	Davis Water Treatment Plant Calgon Pump Improvements	\$160,261	\$0
2207	2015.061	Davis Wtp-Recycle Pump Station Discharge Solid Grit Remova	\$0	\$0
2207	2015.062	Davis Water Treatment Plant Filter Media Tank Improvements	\$0	\$0
2207	2015.064	Davis Water Treatment Plant Clarifier #3 Improvements	\$0	\$0
2207	2015.065	Davis Wtp - Iron And Fluoride Flow Meters	\$0	\$0
2207	2015.066	Davis Water Treatment Clearwell No.4 Improvement	\$0	\$0
2207	2015.067	Davis Wtp High Service Pump Station Discharge Piping And Valve Improvements	\$0 \$0	\$0 60
2207	2015.068	Davis Water Treatment Plant Recycle Pump Replacement	\$0	\$0

DEPT 2207	Subproject ID 2015.069	Subproject Name Davis Raw Water Efficiency Low Service Pump Station Improvem	Appropriation S0	Expenditures \$0
2207	2015.07	Davis WTP - Low Service Building HVAC Replacement	\$90,000	\$85,474
2207	2015.071	Davis Water Treatment Plant • Filter Gallery Hallway Heaters	\$10,000	\$0
2207 2207	2015.072 2015.074	Davis Water Treatment Plant-Recycle Building No.2 Water Davis Water Treatment Plan Admin Building Roof Top Unit	\$0 \$0	\$0 . \$0
2207	2015.075	Davis WTP Replacement of Inoperable Doors	\$0	\$0
2207	2015.076	Davis Water Treatment Plant - Scada Room Floor Replacement	\$0	\$0
2207	2015.077	Davis Water Treatment Plant Rehab of Maintenance Shop	\$0	\$0
2207	2015.078	Davis WTP Maintenance Shop - Replace Shop Heaters	\$24,000	\$8,785
2207	2015.079	Davis Water Treatment Plant High Service Replace Air Hand	\$0	\$0
2207	2015.08	Davis Water Treatment Plant Chemical Building Remodel	\$0	50
2207	2056.004	Water Distribution Scada -Energy & Water Quality Mgt Phase I	\$686,744	\$453,916
2207	2056.005	Wdcs/Scada Ph 2 (Priority 2&3)	\$0	\$0
2207	2056.006	Water Dist Control Sys Replace	\$5,874,143	\$3,623,579
2207	2056.007	Water Distr/Lift Station Scada Control Impr-Ph II	\$1,040,000	\$18,395
2207	2056.008	Annexation Telemetry River Place MUD and Lost Creek MUD	\$825,117	\$655,043
2207	2056.009	SCADA Cyber Security Remediation	\$1,312,758	\$1,033,458
2207	2056.01	SCADA - Water Treatment Plants	\$770,000	\$190,243
2207	2056.011	SCADA	\$1,445,575	\$1,209,507
2207	2056.012	Awu Telecommunications System Upgrade Study	\$0	\$0
2207	2056.013	Scada Data Mart And Data Warehouse Replacement +	\$200,000	\$0
2207	2127.001	Reservoir Improvements	\$1,366,190	\$1,366,189
2207	2127.003	Forest Ridge Reservior Access	\$3,000	\$3,000
2207	2127.012	North Austin Reservoir and Pump Station Improv	\$4,848,372	\$2,474,567
2207	2127.016	Southwest Parkway Swb Elevated Reservoir	\$0	\$0
2207	2127.017	Elevated Tank-Loop 360 Area - Lost Creek	\$0	\$0
2207	2127.019	Pilot Knob Reservoir Improvements	\$2,107,930	\$2,107,930
2207	2127.021	Spicewood Springs Reservoir Improvements	\$47,335	\$47,335
2207	2127.022	Far South Zone Reservoir	\$0	\$0
2207	2127.023	Reservoir Evaluations	\$624,697	\$564,479
2207	2127.025	Anderson Mill Reservoir Improvs	\$2,323,817	\$2,311,937
2207	2127.026	Jollyville Reservoir Improvements	\$3,099,441	\$3,048,897
2207	2127.027	Howard Lane Reservoir #1 Improvements	\$2,605,933	\$2,546,500
2207	2127.028	Reservoir Improvements Consultant	\$16,722	\$0
2207	2127.029	River Place Water System Improvements	\$566,287	\$506,085
2207	2127.03	Lost Creek Reservoirs Improvements	\$2,511,937	\$2,450,482
2207	2127.031	Martin Hill Elevated Reservoir	\$0	\$0
2207	2127.032	Martin Hill Reservoir Mixing Improvements	\$205,000	\$85,811
2207	2127.033	IH 35 South Reservoir	\$117,493	\$117,493
2207	2127.034	Four Points Elevated Tank Improvements	\$3,771,065 \$608,362	\$3,651,313 \$215,573
2207 2207	2127.035 2127.036	Loutnan Lane Tank Improvements Aquifer Storage & Recovery (ASR) Pilot	\$608,362	\$215,573
2207	2127.038	Lcra Tom Miller Dam Gate Improvements	\$4,996	\$205
2207	2127.038	Longhorn Dam Transition Improvements	\$34,455	\$34,455
2207	2127.039	Forest Ridge Reservoir Improvements	\$271,800	\$78,109
2207	2127.04	Lookout Lane/Neverbend Reservoir Improvements	50	\$0
2207	2127.041	Mt. Larson/Westlake Reservoir Improvements	\$0 50	\$0
2207	2127.042	Slaughter Lane Reservoir Improvements	\$0 \$0	\$0
2207	2231.093	Southwest Allandale Neighborhood Water System Upgrades	\$0	\$0
2207	2231.094	RA-Austin Hts Neighborhood WSU	\$2,783,005	\$2,749,861
2207	2231.109	RA - East Allandale White Rock Neighborhood Water System Upg	\$990,884	\$565,490
2207	2231.122	Airport at Chesterfield Water Improvements	\$10,348,470	\$10,348,255
2207	2231.125	Future Large Diameter Waterline On-Call ID/IQ	\$6,529,365	\$6,386,023
2207	2231.146	Pemberton Hts Water Rehab Ph 3	\$9,382,271	\$9,354,430
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DEPT	Subproject 10	Subproject Name	Appropriation	Expenditures
2207	2231.159	Plaza Saltillo Ph 1 Water Ln Replace Rehab	\$713,189	\$533,767
2207	2231.162	RA-NW Brentwood Nghbrhd WSU	\$3,457,490	\$3,426,557
2207	2231.164	Polygon 337-except 32nd Duval to Red River	\$4,512,869	\$4,469,688
2207	2231.176	Service Contract for Large Dia. WL	\$6,365,234	\$6,365,233
2207	2231.178	Misc Water Rehab 2009-10 Ph 2	\$2,800,689	\$2,800,689
2207	2231.179	Misc Water Rehab 2009-10 Ph 3	\$1,238,762	\$1,238,761
2207	2231.181	Haylawn Dr-WL Replacement Rehab	\$3,731,328	\$707,006
2207	2231.185	Plaza Saltillo Ph 2 Water Ln Replace Rehab	\$1,040,623	\$631,001
2207	2231.188	CBD Alley W. Lines 2010 Ph 1-4th to 10th & San Antonio	\$2,552,147	\$2,549,224
2207	2231.192	RA-SE Allandale Nghbrhd WSU	\$5,782,164	\$5,465,070
2207	2231.197	Nueces Water Rehab - 8th to MLK	\$3,572,010	\$647,403
2207	2231.203	Fm 812 (Elroy Loop)	\$0	\$0
2207	2231.207	Misc Water Rehab 2010-11 Ph A Improvs	\$1,160,308	\$1,160,308
2207	2231.216	Nelray & Evans Util Improvs-Water	\$4,508,931	\$4,508,931
2207	2231.217	University Avenue Alley Water Pipeline Improvements	\$75,500	\$57,227
2207	2231.218	Future Water Pipeline Replace/Rehab	\$0	\$0
2207	2231.22	Future Water Pippline Replace/Rehab-Awu Crews	\$0	\$0
2207	2231.233	Ra - Ne Brentwood / Arcadía Street Neighborhood Water System	\$1,010,841	\$400,825
2207	2231.234	Ra - North Rosedale / Lawnmont Neighborhood Water System Upg	\$905,715	\$190,588
2207	2231.235	Brentwood Water Pipeline Renewal: Houston Street Area	\$0	\$0
2207	2231.236	Morrow and Gault Water and Wastewater Rehab	\$1,012,753	\$761,064
2207	2231.237	RA - Exposition Blvd WL Rehab - W. 35th to Enfield	\$833,331	\$628,622
2207	2231.238	Bryker Woods Water Pipeline Renewal	\$1,179,211	\$575,554
2207	2231.239	Ra - Tarrytwn/Hillview & Clearview Area Neighbd Ws	\$0	\$0
2207	2231.241	RA - Prado Water Line Replacement	\$510,175	\$346,836
2207	2231.242	RA - Allen Street Water Line Replacement	\$\$68,306	\$404,503
2207	2231.243	RA - Bengston and Kay Water Line Replacement	\$691,042	\$482,533
2207	2231.244	RA - Cherico/Sellers Water Line Replacements	\$419,170	\$269,482
2207	2231.245	Rosewood Avenue (Navasota to Hargrave) Water Pipeline Renewal	\$0	\$D
2207	2231.246	Ra-Kellam Rd WI	\$0	\$0
2207	2231.248	RA - Garwood Street Water Line Replacement	\$676,025	\$490,663
2207	2231.249	Sth-6th and Chaimers-Comal Alley Water line	\$9,913,633	\$9,689,773
2207	2231.25	RA - Marathon Blvd - 42nd to 45th - Water Line Repl	\$761,022	\$722,612
2207	2231.252	RA - Thames Drive Water Line Upgrade	\$548,464	\$511,122
2207	2231 253	Meter Upgrades-3-in diameter and larger	\$1,576,263	\$960,006
2207	2231.255	Oakmont Blvd WL Imrpvoements - CRS	\$819,757	\$654,479
2207	2231.256	Arroyo Seco WL Improvements - CRS	\$211,560	\$162,760
2207	2231.258	Hartford Rd. WL Improvements CRS	\$429,747	\$428,433
2207	2231.259	Delwood Dr WL (inprovements CRS	\$419,360	\$89,565
2207	2231.26	Jim Hogg Ave to Arroyo Secon-CRS	\$109,906	\$109,906
2207	2231.269	Sunset Lane Water Line Extension CRS	\$81,868	\$81,867
2207	2231.27	Turnabout Lane Relocation(CRS)	\$158,636	\$158,636
2207	2231.271	Suburban Dr. Water Service Line (WSL) Relays	\$165,651	\$165,651
2207	2231.273	RA-West Allandale and Trailridge Drive	\$1,196,409	\$1,036,424
2207	2231.277	Dakhurst Avenue Waterline Rehabilitation	\$67,184	\$67,184
2207	2231.279	Waterline On-Call Services Future Program	\$0	\$0
2207	2231.281	Hyde Park Water System Upgrades	\$1,251,653	\$6,284
2207	2231.282	Deteriorated Asbestos Cement Waterline Replacement	\$0	\$0
2207	2231.284	Gillis Street Water Line Replacement - Renewing Austin	\$102,485	\$55,472
2207	2231.285	Asbestos Cement Water Pipe Line Replacement (Northeast)	\$611,289	\$48,639
2207	2231.286	Cruz Street Water Lines Replacement - Renewing Austin	\$4,998	\$4,998
2207	2231.287	Galindo Street Water Line Replacement - Renewing Austin	\$90,000	\$7,319

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DEPT	Subproject ID	Subproject Name	Appropriation	Expenditures	
2207	2231.288	Northumberland Road Waterline Replacement - Renewing Austin	\$90,000	\$30,144	
2207	2231.29	Zilker Water Pipeline Renewal: Hether St Area	\$0	\$0	
2207	2231.291	Zilker Water Pipeline Renewal: Treadwell St Area	\$741,301	\$9,102	
2207	2231.292	Bouldin Water Pipeline Renewal: Post Oak Street Area	<u> </u>	\$0	
2207	2231.293	Arapahoe Trail Area Water Pipeline Renewal	\$0	\$0	
2207	2231.294	Barton Hills Water Pipeline Renewal: Horseshoe Bend Area	\$0	\$0	
2207	2231.295	Belford Drive Area Water Pipeline Renewal	\$0	\$0	
2207	2231.296	Barbara Street Area Water Pipeline Renewal	\$0	\$0	
2207	2231.297	Gloucester Lane Area Water Pipeline Renewal	· . \$0	\$0	
2207	2231.298	Harmon Avenue Area Water Renewal	\$491,312	\$3,243	
2207	2231.299	W. 9th Street Alley 2" Abandonment/WSL's Relays	\$44,656	\$43,407	
2207	2231.3	Abingdon Waterline Replacement - Renew Austin	\$296,000	\$308,288	
2207	2231.302	Academy Road Waterline Replacement - Renew Austin	\$191,560	\$76,048	
2207	2231.303	La Casa Drive Waterline Replacement - Renew Austin	\$80,749	\$22,646	
2207	2231.304	Beverly Road Waterline Replacement - Renew Austin	\$88,716	\$40,130	
2207	2231.307	North Rosedale Phase II Neighborhood Water Sy	\$0	\$0	
2207	2231.309	Martin Luther King Ir. West Water Pipeline Renewal	\$0	\$0	
2207	2231.31	Greater South River City North Water Pipeline Renewal	\$0	\$0	
2207	2231.311	Wilshire Blvd Area Water Pipeline Renewal	\$0	\$0	
2207	2231.312	Stonegate Water Pipeline Renewal	- \$0	\$0	
2207	2231.313	Truman Heights Water Pipeline Renewal	\$D	\$0	
2207	2231.316	Tejas Trail Waterline Replacement - Renew Austin	\$240,000	\$264,709	
2207	2231.317	Periwinkle Path Waterline Replacement - Renew Austin	\$150,000	\$246,296	
2207	2231.318	Brentwood Water Pipeline Renewal: Arcadia Avenue Phase 2	\$0	\$0	
2207	2231.331	Sunny Lane Waterline Replacement - Renew Austin	\$5,000	\$1,351	
2207	2231.332	Robbins Place and West 21st Street Waterline Replacement - R	\$0	\$0	
2207	2231.333	Zilker Water Pipeline Renewal Phase I I	\$D	\$0	
2207	2231.334	Bryker Road Water Replacement	\$111,160	\$24,122	
2207	2231.335	Creedmoor Drive Water Pipeline Replacement	\$200,000	\$109,114	
2207	2231.336	West Avenue Waterline Replacement - Renew Austin	\$0	\$0	
2207	2231.337	Vanderbilt Lane Waterline Replacement - Renewing Austin	. \$0	\$0	
2207	2231.338	West 12th St. and Maufrais Street Waterline Replacement	\$0	\$0	
2207	2231.339	West 9th Street Water Replacement	\$205,736	\$95,020	
2207	2231.34	Plaza Saltillo Ph2 Water Ln Replacement - Cfa	\$250,000	\$0	
2207	2231.341	Wishire Area Water Pipeline Renewal - Phase 2	\$0	\$0	
2207	2231.342	Garden Villa Lane Waterline Replacement - Renewing Austin	\$0	\$0	
2207	2981.001	Subdiv Engineering & Inspection	\$28,653,880	\$28,653,879	
2207	2982.001	Water Services & Meters	\$13,347,204	\$12,936,320	
2207	3156.003	Water Resource Planning Study	\$900,020	\$898,282	
2207	3159.003	Laboratory Info Mgmt System	\$1,439,277	\$1,270,344	
2207	3159.01	Infor Public Works (Hansen)	\$3,070,238	\$2,481,911	
2207	3159.011	Infor EAM Datastream	\$711,710	\$548,856	
2207	3159.012	GIS	\$1,435,433	\$1,004,434	
2207	3159.013	Data Mgmt/Integration Tool	\$2,405,022	\$2,252,771	
2207	3159.016	SAN & Server Replacement	\$5,131,197	\$4,728,129	
2207	3159.017	Router, Switch Replace/DR	\$2,267,629	\$1,949,785	
2207	3159.021	Mobile Workforce	\$2,039,234	\$1,906,352	
2207	3159.025	Collaboration Software Implementation	\$100,000	\$27,079	
2207	3159.026	Permitting Software Upgrade (AMANDA)	\$300,000	\$0	
2207	3185.002	Capital Equipment- Vehicles	\$43,444,310	\$41,241,560	
2207	3185.005	Miscellaneous Capital Equipment-W	\$531,067	\$93,140	
2207	3185.006	Capital Equipment - Radios	\$0	\$0	
2207	3185.007	Capital Equipment - Vehicles FY17	\$6,671,308	\$3,718,880	

DEPT	Subproject ID	SubprojectName	Appropriation	Expenditures
2207	3212.006	Miscellaneous Paving Improv	\$1,361,361	\$1,316,105
2207	3212,081	FM 973 From Pearce Ln to FM 812	\$493,805	\$493,805
2207	3212.12	SH 71 (W) WL Reloc:Arroyo Canyon to 5. of SW Pkwy	\$606,271	\$602,413
2207	3212.122	SH 71 @ Riverside	\$2,340,853	\$2,333,230
2207	3212.124	Future Water Pipeline Relocations-External	\$0	\$0
	3212.126	Future Water Pipeline Relocations-Internal	\$0	\$0
2207 2207	3212.126	SH 71 (W): SW Parkway to US 290	\$6,233,627	\$6,116,553
2207	3212.131	Frate Barker Brodie Ln to Manchaca	\$1,503,296	\$1,470,602
2207	3212.132	So. Congress Ave North Bluff to Foremost Dr.	\$775,371	\$741,798
2207	3212.135	TXDOT-MoPac 42-Inch Water TM Relocation Txdot-Manchaca Road Improvements	\$2,245,640 \$0	\$2,238,143 \$0
2207 2207	3212.139 3212.14	IH 35 W Line Betterment-Ben White To William Cannon Segment	\$2,515,573	\$2,382,814
2207	3212.141	TxDOT Loop1 Water Line Relocation	\$2,921,659	\$2,404,381
2207	3212.143	Readjustment of Water Line Appurtenances On Slaughter Lane	\$56,588	\$52,537
2207	3212.144 3212.146	Relocation of Neenah Road Water Line and Appurtenances Pearson Ranch Road	\$160,175 \$1,875,093	\$65,410 \$1,471,950
2207 2207	3212.146	Forest North Phase 2 Water Line Relocation	\$1,239,547	\$151,659
2207	3212 148	Pond Springs Road Water Line Relocation	\$61,375	\$0
2207	3212.149	Anderson Mill Zone Water Line Relocation	\$241,480	\$46,154
2207	3212.15	Travis County Weid No. 10 Inspection Services	\$172,353 \$58,817	\$10,213 \$15,077
2207 2207	3212.152 3212.153	IH 35 W Line Relo - Riverside Segment TXDQT FM 734 (Parmer Lane) WL Relocation - Harris Branch to	\$1,215,000	\$0
2207	3212.154	TX DOT SH 71 Water Line Relocation - SH71 @ US 183 Interchan	\$1,170,000	\$0
2207	3212.155	TXDOT - IH 35 Water Line Relocation at Parmer Lane Segment	\$860,000	\$3,120
2207	3212 156	TXDOT IH 35 WL Relocation: SH 45 SE to Onion Creek Pkwy (Est	\$40,000	\$0
2207 2207	3212.157 3212.158	TxDOT Fm 2222 Water Ln Relo: W Of Parker Ctr To Loop 360 TxDOT US 183/SH 71 Relocation: S of Thompson Ln/SW of Airport Commerce Dr	\$885,000 \$0	\$14,674 \$0
2207	3212.159	TXDOT FM 1826 Water Line Relo: Slaughter Lane to US 290	\$0	\$0
2207	3212.16	TxDQT IH 35 WI Relocation-Riverside Drive To Sh 45 Se	\$50,000	\$0
2207	3212.161	TxDOT Fm 2222 WI Relocation: Bonaventure Drive To Ribelin	\$4,165,000	\$272,600
2207 2207	3212.162 3212.163	TxDOT IH 35 Central WI Relocation-Us 183 To Riverside Drive TxDOT (H 35 North (16) Project WI Reloc: Sh 45 N. To Us 290	\$30,000 \$20,000	\$0 \$0
2207	3212.164	4th Street Water Main Relocation and Improvements	\$0	\$0
2207	3257 001	DavisLab/Admin Renovation	\$539,549	\$539,549
2207	3353.053	Colton Bluff Subdivision-Water	\$781,000	\$0
2207 2207	3353.06 3353.068	Pioneer Crossing Amended Pud N Circle C CCR 103 Water Line Improvements	\$5,238,000 \$1,473,195	\$0 \$1,455,564
2207	3353.073	Watersedge Pud	\$8,164,832	\$68,068
2207	3353.083	The Vistas-W	\$4,239,000	\$0
2207	3353.104	The Terrace 16-Inch Offsite Water Line	\$215,783	\$4,082
2207 2207	3353.109 3353.113	Bull Creek Tract 24-Inch Water Line Improvements West 5th Street Self-Storage	\$1,304,894 \$116,409	\$4,081 \$3,332
2207	4598.001	Accumulated Balance	\$17,568,492	(\$1)
2207	4598.004	Citywide Water Improvements-Cash	\$89,335,012	\$0
2207	4598.005	Citywide WaterImprovements-Debt	\$220,573,500	\$0
2207 2207	4598.011 4716.001	Texas Water Development Board Rocip Program	\$80,195,000 \$0	\$0 \$0
2207	4857.016	Anderson Mill MUD	\$2,392,177	\$2,392,177
2207	4857.024	North Acres-Water Improvements-North	\$3,363,867	\$3,362,770
2207	4857.025	North Acres W Final Conveyance in the Creek	\$5,658,254	\$5,592,526
2207 2207	4857.027 4857.03	North Acres-Water Improvements-South Shady Hollow Annexation	\$6,053,139 \$0	\$6,053,139 \$0
2207	4857.031	Annexation Projects Future Program	\$0	\$0
2207	4953.003	Property Improvements for New Bond Lands	\$997,011	\$997,010
2207	4953.015	Water Quality Protection Land Fencing Improvements	\$457,075 \$380,000	\$446,493 \$24,573
2207 2207	4953.02 4953.021	Rutherford Ranch Road TFAD-Trail for a Day	\$145,352	\$95,352
2207.	4953.023	Balcones Canyonlands Preserve (BCP) Property Improvements	\$166,974	\$158,858
2207	4953.025	BCP Shop and Barn	\$526,130	\$520,420
2207	4953.028	Tabor Dam Removal	\$75,000 \$4,357,621	\$16,535 \$4,356,939
2207 2207	5267.013 5267.016	Smith Road Extension Future Tank Site Purchases	\$2,053	\$2,053
2207	5267.027	WCWWTP WRI Tank Assess.& Repair/H\$P5	\$7,565,518	\$7,561,097
2207	5267.035	Future Tank-Montopolis Tank	\$14,702,557	\$8,081,686
2207	5267.037	Cemetery Water Line Parter Hills Water Services Peolesement	\$1,080,000 \$601,501	\$301,284 \$601,501
2207 2207	5309.005 5309.006	Barton Hills Water Services Replacement Water Services Replacement Contract IDIQ (2017 to 2021)	\$2,206,000	\$915,206
2207	5335.003	Ulirich Wtp Contract li Raw Water Pipeline	\$0	\$0
2207	5335.005	Ullrich DACS Obsole scence	\$3,678,560	\$816,287
2207	5335.008	Ullrich WTP Conversion to On-Site Generation of Sodium Hypoc	\$3,365,624	\$891,174
2207 2207	5335.01 5335.012	Ullrich WTP New Generator Installation Ullrich Basin Structural Repairs	\$161,609 \$927,398	\$161,609 \$927,398
2207	5335.012	Ullrich WTP SWGR 15KVA Switch Replacement	\$1,584,423	\$200,518
. 2207	5335.017	Air Handler Replacement-Ullrich	\$0	\$0

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DEPT	Subproject ID	Suhnrniert Name	Appropriation	Exnenditures
2207	5335.019	Maintenance Shop A/CReplacement	\$45,000	\$32,996
2207	5335.021	Ullrich Alternate Delivery Projects	\$0	\$0
2207	5335.027	Ullrich Hydraulic & Energy Efficiency Improv.	\$9,975,584	\$7,446,374
2207	5335.031	ADP-UllrichConcreteRehabilitation	\$227,550 *	\$227,550
2207 2207	5335.032 5335.033	ADP-Ullrich WTP Protective Coating System Rehabilitation Ullrich-Data Acquisition And Control System RehabPhase1	\$150,000 \$40,000	\$109,846 \$9,309
2207	5335.035	Infrastructure Replacement	\$0	\$0
2207	5335.037	ADP - Replacement of Filter basin Basement Dehumidifiers	\$355,699	\$355,699
2207	5335.039	Ultrich WTP Powered Activated carbon (PAC) system Rehabilitate	\$1,250,000	\$1,161,289
2207	5335.042	Ullrich Basin #2 Structural Analysis And Repair Of Clarifier	\$149,218	\$149,218
2207	5335.043	Ullrich Wtp Chlorine Pipes And Valves Rehabilitation	\$173,315	\$173,315
2207	5335.044	Replacement of Ultrich fluoride storage tanks	\$35,537	\$35,537
2207	5335.045	Ullrich Wtp Medium/High Service Chiller And Air Handler	\$375,000	\$0
2207	5335.046	Ullrich Oil Storage Location/Store Room Improvements	\$0	\$0
2207	5335.047	Ullrich Truck Scale System Rehabilitation	\$0	\$0
2207	5335.048	Ullrich Filter Basins 1-18 Stairway Rehabilitation	\$29,848	\$0
2207	5335.05	Ullrich Lime Blower Pump Rehabilitation	\$0	\$0
2207	5335.051	Ullrich Clarifier Basin Valve Extension	\$0	\$0
2207	5335.052	Ullrich Electrical System Replacement Study	\$0	\$0
2207	5335.053	Ullrich Clarifier Basin Recoating	\$0	\$0
2207	5335.055	Ullrich Clarifier No. 2 and 5 Rehabilitation	\$0	\$0
2207	5335.056	Ullrich Project Trailer Replacement	\$0 [.]	\$0
2207	5335.058	Low Water Pump #3 Rehabilitation	\$0 .	\$0
2207	5335.06	Ullrich Clear Well #2 Rehabilitation	\$0	\$0
2207	5335.061	Ullrich Electrical Upgrade and Pump Rehabilitation	\$0	\$0
2207	5335.062	Ullrich Private Automated Branch Exchange Room Relocation	\$0	\$0
2207	5335.063	Ullrich Centrifuges 1&3 Replacement	\$40,000	\$3,944
2207	5335.064	Ullrich Dehumidifier Basins #4-8 Replacement	\$0	\$0
2207	5335.065	Ullrich WTP Service Water System Pump Replacement	\$50,000	\$4,077
2207	5335.066	Ullrich Water Treatment Plant - Admin Building Lab HVAC	、\$0	\$0
2207	5335.068	Ullrich Water Treatment Plant Roof Repair	\$0	\$0
2207	5335.07	Ullrich WTP Lime Feed Loop	\$1,070,947	\$374,728
2207	5335.071	Ullrich Water Treatment Plant Lime Building Condeser Replace	\$0	\$0
2207	5335.072	Ullrich Water Treatment Plant Admin and Control Room Rehab	\$0	\$0
2207	5335.073	Ullrich Water Treatment Plant Low Service Chiller Controls	\$0	\$0
2207	5335.074	Ullrich Water Treatment Plant Centrifuge Building HVAC	\$0	\$0
2207	5385.002	Davis Ln/ Leo St- Huebiger Dr	\$385,265	\$385,265
2207	5385.003	Davis/Deer Lane Improvement-Water	\$33,787	\$33,787
2207	5403.003	Rio Grande from 24th to 29th St. Recon & Util Adj	\$1,240,000	\$1,196,445
2207	5645.003	Davis & Ullrich O & M Manual Digital Archive	\$543,409	\$543,409
2207	5754.085	Little Walnut Creek 8-Inch Water Main	\$636,454	\$434,550
2207	5789.022	Shoal Crk Ridgelea Storm Drain-Water	\$975,254	\$975,253
2207	5873.012	Redbud Trail - Water	\$334,598	\$165,444
2207	5873.031	Barton Spring Road Bridge Over Barton Creek	\$25,000	\$0
2207	6000.103	GIS eALP (ABIA Utility Location)	\$50,000	\$50,000
2207	6031.005	Howard Lane at Cameron Road to Gregg Lane	\$750,419	\$750,419
2207	6055.007	So. Congress Ave Town Lake to Oltorf	\$45,000	\$42,750
2207	6066.043	Zilker Metro Park - Water Line Extension	\$150,000	\$0
2207	6319.007	Fallwell Lane Approach 16-Inch Water Line	\$233,320	\$24,534
2207	6598.037	U\$290 Intersect@1826 & Convict Hill	\$1,469,560	\$1,469,560
2207	6598.039	US290 Intersect at SH71, Wm Cannon, Joe Tanner	\$1,779,684	\$1,717,854
2207	6621.006	Davis WTP Security Access System Upgrade	\$1,391,995	\$1,052,955
2207	6621.012	Water Distribution Security System Replacement	\$1,175,000	\$885,392
2207	6621.013	Ullrich WTP Security Access System Upgrade	\$1,060,479	\$775,328
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DEPT	Subproject ID	Subproject Name	Appropriation	Expenditures
2207	6621.017	Waller: Security Operation Center's Build-Out	\$97,555	\$97,554
2207	6621.018	Webberville Stores Security Upgrade	\$120,000	\$113,406
2207	6621.019	Waller Creek Security Enhancements	\$266,138	\$266,138
2207	6621.02	Water Treatment Plant 4 Security Guard Station Setup	\$35,648	\$35,648
2207	6621.021	Glen Bell Service Center Stores Security Upgrade	\$75,000	\$0
2207	6621.022	WTP4 Site Security Enhancements	\$0	\$0
2207	6621.023	Glen Bell Service Center Security Conversion to Geneted	\$0	\$0
2207	6621.025	Wtp4 Site Security System Conversion	\$0	\$0
2207	6621.026	Security Operations Center (SOC) Expansion	\$0	\$0
2207 .	6621.027	Waller Creek Center security system conversion	\$0	\$0
2207	6621.029	North Service Center Security System Upgrade	\$125,000	\$0
2207	6621.03	Tim Louviere Service Center Security System Upgrade	\$0	\$0
2207	6621.031	Davis Water Treatment Plant Security System Upgrade	\$0	\$0
2207	6621.033	Pump Station Security Access System Upgrade	\$0	\$0
2207	6621.034	Ullrich Water Treatment Plant Security System Upgrade	\$0	\$0
2207	6621.035	Summit Water Quality Lab Security Access Upgrade	\$0	\$0
2207	6621.036	Webberville Service Center Security System Upgrade	\$0	\$0
2207	6621.037	Longhorn Dam Security Monitoring And Access Control	\$0	\$0
2207	6659.002	Cost of Service Study 2007 - Water	\$1,887,479	\$1,217,691
2207	6659.004	Facility Condition Assessment	\$1,821,030	\$1,821,030
2207	6683.022	WTP4 SCADA Programming, Pump, and Other Betterments	\$1,067,758	\$962,051
2207	6683.023	Wtp4 Process Reliability Improvements	\$0	\$0
2207	6683.024	WTP4 Security Guard House and Improvements	\$217,685	\$193,413
2207	6683.025	WTP4 Supervisory Control and Data Acquisition	\$351,128	\$0
2207	6683.026	Water Treatment Plant 4 Lime Building Elevator	\$0	\$0
2207	6683.027	Water Treatment Plant 4 Centrifuge Building Elevator	\$0	\$0
2207	6683.029	Water Treatment Plant 4 Low Service Pump Station	\$0	\$0
2207	6683.03	Wtp4 Low Service Pump Station And Raw Water Pipe Gallery Com	\$405,043	\$0
2207	6683.031	Water Treatment Plant 4 Process Buildings HVAC	\$0	\$0
2207	6683.032	Water Treatment Plant 4 Filter Backwash Pump Station	\$0	\$0
220 7	6755.002	Tadd Ln/ Ben White- St. Elmo	\$906,805	\$906,805
2207	6935.001	Davis Medium Service Tm (Ph 1 & 2)	\$0	\$0
2207	6935.005	Springdale/183/71 Tm	\$0	\$0
2207	6935.006	Spicewood Springs Tm 48-Inch Upgrade	\$0	\$0
2207	6935.013	Forest Ridge/NWA TM	\$1,051,769	\$1,051,769
2207	6935.015	Hwy 183 - Pilot Knob Supply Main	\$0	\$0
2207	6935.017	Wonsley Dr & Gessner Dr (Georgian)	\$0	\$0
2207	6935.018	FM 969 Trans. Line-Decker Ln to SH 130	\$1,099	\$1,099
2207	6935.024	Eaps To Cameron Tm	\$0	\$0
2207	6935.025	SW Pkwy Tm (Swb) Old Bee Caves Travis Cook Ext.	\$0	\$0
2207	6935.026	Moore Rd Tm	\$0	\$0
2207	6935.028	Lost Creek Improvements	\$0	\$D
2207	6935.029	Fm 812 Tm	50	\$0
2207	6935.03	Harris Branch Pkwy/Cameron Rd 24" TM	\$98,824	\$98,824
2207	6935.032	Tanglebriar System Improvements	\$1,380,079	\$992,540
2207	6935.037	Highland Park Improvements	\$1,643,853	\$761,996
2207	6935.04	Westlake/West Rim Wtr Sys Imp	\$0	\$0
2207	6935.041	Motorola/Oakhill Conversion	\$0	\$0
2207	6935.042	Loop 360 Westlake To Waymaker	\$20,000	\$0
2207	6935.043	Future System Improvements To Meet Minimum Standards	\$0	\$0
2207	6935.045	Northwest A & B Zone Boundary Project	\$680,735	\$387,460
2207	6935.046	Hwy 290 / 183 Low Pressure Project	\$0	\$0

DEPT	Subproject ID	Subproject Name	Appropriation	Expenditures
2207	6935.047	Interstate 35 - Oltorf Low Pressure Project	\$385,000	\$82,257
220 7	6935.048	Interstate 35 Water Line Extension	\$25,935	\$24,466
2207	6935.049	Travis Co Water Line Constr - FM 1626 from Manchaca to Brodi	\$582,642	\$100,469
2207	6935.05	Integrated Water Management Plan	\$1,000,000	\$614,435
2207	6935,051	Hearn Street and W. 7th Waterline Improvements	\$287,510	\$202,279
2207	6935.053	Feasibility and Engineering Analyses (FEA) for Supply-side	\$729,755	\$716,619
2207	6935.054	ASR Preliminary Investigation and Feasibility Analysis	\$144,165	\$131,036
2207	6935.055	East Austin Transmission Line	\$90,785	\$90,785
2207	6935.056	Seaholm 30-Inch Water Main Abandonment And Interconnect	\$0	\$0
2207	6935.057	Advanced Metering Infrastructure Consultant	\$2,400,000	\$80,554
2207	6935.06	Lift Staions Water Service Lines Install	\$0	\$0
2207	6935.062	W. 35th/W. 38th Water System Improvements	\$164,180	\$78,756
2207	7328.013	WRI Seaholm District Reclaimed Water Mains	\$246,310	\$244,369
2207	7328.015	Block 24/ECC Redevelopment	\$0	\$0
2207	7678.001	Justin Lane from Burnet to Lamar	\$1,857,110	\$1,499,995
2207	8158.004	3rd St. Reconstruction Phase 4 - Guadalupe St. to Nueces St.	\$276,446	\$268,481
2207	8198.001	Pond Springs Rd/Interlocal, Water	\$231,167	\$231,166
2207	8598.006	Plaza Saltillo POĐ	\$69,952	\$69,952
2207	8702.004	Alternative Process Evaluation for Austin Water Trtmt Plants	\$199,624	\$199,624
2207	8702.005	Lime Residual Disposal Master Plan	\$0	\$0
2207	8702.006	Austin Water Energy Projects Analysis	\$0	\$0
2207	9083.006	Waller Creek District - Sabine St Promenade Water Line	\$615,303	\$28,830
2207	9084.001	Water Facility IDIQ FY 14-17	\$2,856,206	\$2,632,743
2207	10998.002	Harold Court Slope Failure Assessment and Response	\$0	\$0

Appendix E Descriptions of the Zones for the Current Fees

Descriptions of the zones for the current fees are found in the Land Development Code Chapter 25-1-21(26) and (30), Chapter 25-8-2(D), Chapter 25-2-311, and Ordinance 990805-31 excerpted below. The boundaries are subject to change based on field work and plan review by Watershed Management Department.

Land Development Code Chapter 25-1-21 (30) DRINKING WATER PROTECTION ZONE means the areas within the Barton Springs Zone, the Barton Creek watershed, all water supply rural watersheds, and all water supply suburban watersheds, as described in Section 25-8-2 (Descriptions Of Regulated Areas) that are in the planning jurisdiction.

LDC 25-8-2(D): BARTON SPRINGS ZONE means all watersheds that contribute recharge to Barton Springs, including those portions of the Barton, Williamson, Slaughter, Onion, Bear and Little Bear Creek watershed located in the Edwards Aquifer recharge or contributing zones.

BARTON CREEK WATERSHED means the land area that drains to Barton Creek.

EDWARDS AQUIFER is the water-bearing substrata also known as the Edwards and Associated Limestones Aquifer and includes the stratigraphic rock units known as the Edwards Formation and Georgetown Formation.

EDWARDS AQUIFER CONTRIBUTING ZONE means all land generally to the west and upstream of the Edwards Aquifer recharge zone that provides drainage into the Edwards Aquifer recharge zone.

EDWARDS AQUIFER RECHARGE ZONE means all land over the Edwards Aquifer that recharges the aquifer, as determined by the surface exposure of the geologic units comprising the Edwards Aquifer, including the areas overlain with quaternary terrace deposits.

SOUTH EDWARDS AQUIFER RECHARGE ZONE means the portion of the Edwards Aquifer recharge zone that is located south of the Colorado River and north of the Blanco River.

WATER SUPPLY RURAL WATERSHEDS include the Lake Travis watershed and Lake Austin watershed, excluding the Bull Creek watershed and the area to the south of Bull Creek and the east of Lake Austin.

WATER SUPPLY SUBURBAN WATERSHEDS include: the Bull, Eanes, Dry Creek North, Taylor Slough North, Taylor Slough South, and West Bull creek watersheds; the Town Lake watershed on the south side of Town Lake from Barton Creek to Tom Miller Dam; the Town Lake watershed on the north side of Town Lake from Johnson Creek to Tom Miller Dam; and the Town Lake watershed on the east side of Lake Austin from Tom Miller Dam to Bull Creek.

Land Development Code Chapter 25-1-21 (26) DESIRED DEVELOPMENT ZONE means the area not within the drinking water protection zone.

LDC 25-8-2(D): SUBURBAN WATERSHEDS include all watersheds not otherwise classified as urban, water supply suburban, or water supply rural watersheds, and include: the Brushy, Carson, Cedar, Cottonmouth, Country Club East, Country Club West, Decker, Dry Creek NE, Dry Creek East, Elm Creek, Elm Creek South, Gilleland, Harris Branch, Lake, Maha, Marble, North Fork, Plum Creek, Rattan, Rinard, South Boggy, Walnut, and Wilbarger creek watersheds; the Colorado River watershed downstream of U.S. 183; and; those portions of the Onion, Bear, Little Bear, Slaughter, and Williamson creek watersheds not located in the Edwards Aquifer recharge or contributing zones.

LDC 25-8-2(D): URBAN WATERSHEDS include: the Blunn, Buttermilk, East Boggy, East Bouldin, Fort, Harper Branch, Johnson, Little Walnut, Shoal, Tannehill, Waller, and West Bouldin creek watersheds; the north side of the Colorado River watershed from Johnson Creek to U.S. 183; and; the south side of the Colorado River watershed from Barton Creek to U.S. 183.

CIP-E-1