



INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Committee**
 FROM: **Henry Hash, Public Works Director** *H.H.*
 BY: **Gail Labanara, Public Works Analyst**
 CC: **Mayor Ekberg**
 DATE: **September 21, 2018**
 SUBJECT: **Proposed 2019-2020 Biennial Budget**
Water, Sewer & Surface Water Enterprise Funds

ISSUE

Transportation and Infrastructure Committee to review Proposed 2019-2020 Biennial Budget, Rate Model, and Capital Improvement Programs for Water, Sewer and Surface Water Enterprise Funds.

BACKGROUND

The City is committed to developing and passing a fiscally-sound, balanced budget. Two challenges the City is encountering is 1) sales tax revenue growth of 3% projected for 2018 has not been realized to date, and 2) sales tax mitigation payments will end in late 2019. As a result, the City is seeking a balanced budget with expenditure reductions and possible new revenue opportunities.

DISCUSSION & FISCAL IMPACT

Water Fund

- Rate increases of 5% across the board
- Remains at 7.5 Employees
- CIP includes 58th Ave S, Macadam Rd S, and the Water Comprehensive Plan
- Long range concern includes Water Reservoir
- Public Works Shops debt service is estimated at \$400k/year

Sewer Fund

- King County sewer treatment increase in 2019 only, no Tukwila rate increase
- Remains at 4.5 Employees
- CIP includes CBD Sewer Rehabilitation and Fort Dent Park Sewer Relocate
- Long range concerns include aging infrastructure and replacing sewer lift stations
- Public Works Shops debt service is estimated at \$240k/year

Surface Water Fund

- Rate increases of 5% in 2019 and 3% in 2020, alternate years
- Remains at 12.5 Employees
- CIP includes Riverton Creek Flap Gate 42nd Ave S, Chinook Wind, Tukwila 205 Levee, EMW Outfalls, and 53rd Ave S
- Long range concerns include NPDES requirements, aging infrastructure, and levee
- Public Works Shops debt service is estimated at \$560k/year

RECOMMENDATION

Transportation and Infrastructure Committee approval to forward the Water, Sewer, and Surface Water section of the 2019-2020 Biennial Budget to the Committee of the Whole.

ATTACHMENT D
City of Tukwila
WATER ENTERPRISE FUND
2019 - 2024 Analysis in 000's

REVENUES	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Totals
Monthly Water Charges ⁽¹⁾	Base	+5% Commercial	+5% Commercial	+5% Commercial	+5% Commercial	+5%	+5%	+5%	+5%	+5%	+5%	
Cascade Water Alliance (CWA)	2,480	2,525	2,905	2,710	3,100	3,193	3,256	3,354	3,421	3,524	3,594	20,342
Regular City Water	3,987	3,858	3,841	4,265	3,827	3,991	4,110	4,193	4,319	4,448	4,671	25,732
Subtotal Water	6,467	6,383	6,746	6,975	6,927	7,184	7,366	7,547	7,740	7,972	8,265	46,074
Other Miscellaneous Revenue	42	48	96	43	105	53	58	60	65	70	72	378
Interlocal Ags\PWTF\Grants	1,105	22	0	0	0	0	0	0	0	3,000	3,000	6,000
Water Connection Fees ⁽²⁾	108	80	216	25	87	80	100	100	100	20	20	420
Total Revenues	7,722	6,533	7,058	7,043	7,119	7,317	7,524	7,707	7,905	11,062	11,357	52,872
EXPENDITURES												
CWA Purchased Water ⁽³⁾	2,480	2,525	2,905	2,710	3,100	3,050	3,142	3,354	3,421	3,524	3,594	20,085
Water Operations & Maintenance	2,026	2,004	2,172	2,102	2,038	2,275	2,325	2,339	2,409	2,505	2,581	14,434
Debt Service ⁽⁴⁾	545	148	146	148	148	145	145	144	129	128	128	819
<i>Debt Service for PW Shops</i>				81	340	159	181	400	400	400	400	1,940
Interfund Utility Tax ⁽⁵⁾ 10%	648	640	677	702	703	724	742	761	781	804	834	4,645
Engineering Labor ⁽⁷⁾	66	42	53	85	65	75	76	78	80	82	84	475
Subtotal	5,765	5,359	5,953	5,828	6,394	6,428	6,611	7,076	7,220	7,443	7,621	42,398
Water Capital - CIP Program	1,318	598	2,041	1,055	1,869	1,056	2,205	443	916	3,785	4,350	12,755
Total Expenditures	7,083	5,957	7,994	6,883	8,263	7,484	8,816	7,519	8,136	11,228	11,971	55,153
FUND BALANCE												
Change in Fund Balance ^(a)	639	576	(936)	160	(1,144)	(167)	(1,292)	188	(231)	(166)	(614)	(2,281)
Beginning Balance	5,777	6,693	6,693	5,691	5,691	4,547	4,380	3,088	3,276	3,046	2,879	5,487
Ending Balance	6,416	7,269	5,757	5,851	4,547	4,380	3,088	3,276	3,046	2,879	2,266	3,206

Fund Balance:	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Totals
Reserved ^(b) 20% of revenue	1,212	1,323	1,302	1,302	1,302	1,424	1,463	1,505	1,541	1,581	1,612	1,612
Unreserved	5,204	5,946	4,455	4,549	3,245	2,956	1,624	1,771	1,504	1,298	653	653
Ending Balance	6,416	7,269	5,757	5,851	4,547	4,380	3,088	3,276	3,046	2,879	2,266	2,266

^(a) Revenues in excess of (less than) expenditures

^(b) Annual reserve balance requirement equals 20% of the prior year operating revenues.

ATTACHMENT D-1

NOTES TO WATER ENTERPRISE FUND

- 1) Rates reflect increases of 5% for 2019 through 2024. These rate increases are essential to sustain our reserve balance and cover any possible increases from Cascade Water Alliance (CWA). We will continue to review the annual rate model to confirm that the proposed increases are necessary.

Future water purchased at additional costs will be passed on to ratepayers. We have identified Cascade Water Alliance's revenues and expenditures to better reflect the actual water charges and the respective increases. CWA has proposed rate increases of 3.01% in 2019 and 1.71% in 2020.

- 2) Connection fees are estimated for the Allentown/Foster Point and Duwamish projects.
- 3) Cascade Water Alliance is split out to identify the actual costs of purchased water. CWA has scheduled increases in their six-year planning model that will affect our water rates.
- 4) Debt schedule includes Public Works Trust Fund (PWTF) loans and Bonds.

Water Debt Service includes:	<u>Expires</u>	<u>2019</u>	<u>2020</u>
2003 PWTF Duwamish (20%)	7/1/21	14,671.06	14,598.79
2004 PWTF Allentown (26%)	7/1/24	83,044.26	82,641.13
2006 Bond Allentown (26%)	12/31/26	47,129.54	47,740.74
2018 Public Works Shops (17%)	12/31/38	<u>159,027.00</u>	<u>181,339.00</u>
	Total	<u>\$303,871.86</u>	<u>\$326,319.66</u>

- 5) An Interfund Utility Tax was approved in October 2009 for the water, sewer, and surface water utilities. Gross revenues are currently taxed 10% through December 31, 2021.
- 6) The Working Capital Reserve Fund's policy was updated in 2012 per Resolution No. 1774 to maintain an adequate fund balance in each of the enterprise funds. For the Enterprise Funds, the unrestricted fund balance shall equal or exceed 20% of the previous year's revenue, exclusive of significant non-operating, non-recurring revenues.
- 7) The Senior Water/Sewer Engineer's salary and benefits are split evenly between the water department and the sewer department.

Water Enterprise Fund

The City's Enterprise Funds account for utility operations that are self-supported through user charges. The utilities are financed and operated like a private business enterprise which requires periodic determination of revenues earned; expenses incurred, and net income for capital maintenance, public policy, management control and accountability. The Water Fund accounts for operations and capital improvements to provide water to a portion of City residents. King County Water District 125 and Highline Water District also supply water to City residents.

DEPARTMENT: Public Works
FUND: Water
RESPONSIBLE MANAGER: Henry Hash

FUND NUMBER: 401
POSITION: Director

Description

The mission of the Water Utility is to operate and maintain a water distribution system that will provide residential, commercial, and industrial customers with high water quality, adequate capacity and pressure, at economical costs. The system distributes, on an annual basis, approximately 776 million gallons of water through 41 miles of water mains through approximately 2,202 meters. The Water Utility maintains relationships with adjoining jurisdictions, cities, water districts, sewer districts, and the Washington State Department of Health. Additional service is provided with reclaimed water along the Interurban Avenue South Corridor.

2017-2018 Accomplishments

- ◆ Completed construction of Andover Park E Water Main Replacement.
- ◆ Continued development of the GIS as-builts of city water infrastructure.
- ◆ Completed construction of 53rd Ave S water improvements.
- ◆ Continued monitoring water use efficiency efforts and provided an annual report.
- ◆ Achieved 10 percent water savings to meet Water Efficiency Goals established by the Municipal Water Law.

2019-2020 Outcome Goals

- | | |
|-------------------------------------|--|
| ◆ Improve water use efficiency. | <i>Strategic Goal 1 Utility Comp Plan Goal 12.1</i> |
| ◆ Improve water system reliability. | <i>Strategic Goal 1 Utility Comp Plan Goal 12.1</i> |
| ◆ Increase water system capacity. | <i>Strategic Goal 1 Utility Comp Plan Goal 12.1</i> |

2019-2020 Indicators of Success

- ◆ Complete construction of Macadam Rd S Water Upgrade.
- ◆ Complete construction of 58th Ave S Water Main Replacement.
- ◆ Continue development of the GIS as-builts of city water infrastructure.
- ◆ Complete update to Water Comprehensive Plan.
- ◆ Finish design and begin construction of Martin Luther King Jr Water Main.
- ◆ Continued development of the GIS as-builts of city water infrastructure.

Performance Measures

Public Works - Water	Actual			Projected	
	2016	2017	Estimated 2018	2019	2020
Ensure a safe supply of drinking water					
Number of backflow prevention assemblies (BPA) certified	1,500	1,665	1,685	1,715	1,725
Number of water system samples tested	25	47	50	50	50
Number of zones where mains are flushed	150	129	135	135	135
Bi-monthly tests for coliform & chlorine residual levels	18	25	25	25	25
Number of fire hydrants tested	585	570	575	580	580
Capital					
Number of water meters 2 inches and larger tested for accuracy	145	90	100	125	110
Number of new water meters installed within 48 hours of hook-up request	10	13	15	17	19
Customers					
Number of water customers	2,145	2,150	2,202	2,500	2,600
Total Gallons of Water Purchased (in thousands)	712,000	775,000	776,000	777,000	778,000
Number of total water system miles	43	44	44	44	45
Number of fire hydrants	595	595	600	605	608
Number of shut-off notices	380	375	370	380	380
Number of actual shut-offs for non-payment	40	40	40	40	40

Revenue and Expense Summary

Water								
	Actual			Budget			Percent Change	
	2016	2017	2018	2018	2019	2020	2018-19	2019-20
Operating Revenue								
Charges for Services								
Water Sales	\$ 6,401,246	\$ 6,774,040	\$ 6,939,820	\$ 6,996,000	\$ 7,206,000	\$ 7,388,000	3.00%	2.53%
Inspection Fees	210	345	382	1,000	-	-	0.00%	0.00%
Total Charges for Services	6,401,456	6,774,385	6,940,203	6,997,000	7,206,000	7,388,000	2.99%	2.53%
Transfers In Hydrant Rental	-	-	935,000	-	-	-	0.00%	0.00%
Miscellaneous Revenue								
Investment Earnings	33,658	62,912	52,481	21,000	31,000	36,000	47.62%	16.13%
Sale of Capital Assets	(3,538)	4	-	-	-	-	0.00%	0.00%
Other Misc Revenue	186	3,969	400	-	-	-	0.00%	0.00%
Total Miscellaneous Revenue	30,307	66,885	52,881	21,000	31,000	36,000	47.62%	16.13%
Total Operating Revenue	6,431,763	6,841,271	7,928,084	7,018,000	7,237,000	7,424,000	3.12%	2.58%
Capital Project Revenue								
State Grant	41,082	-	-	-	-	-		
Capital contributions	60,209	216,339	83,444	25,000	80,000	100,000	220.00%	25.00%
Transfer In from Fund 306	-	-	935,000	-	-	-	0.00%	0.00%
Total Capital Project Revenue	101,291	216,339	1,018,444	25,000	80,000	100,000	220.00%	25.00%
Total Revenue	6,533,054	7,057,609	8,946,528	7,043,000	7,317,000	7,524,000	3.89%	2.83%
Operating Expenses								
Salaries & Wages	529,831	557,332	607,264	612,767	618,746	632,379	0.98%	2.20%
Personnel Benefits	184,242	254,595	271,233	271,885	283,215	294,631	4.17%	4.03%
Supplies	2,650,091	3,031,752	2,417,466	2,815,300	3,215,550	3,307,300	14.22%	2.85%
Services	259,278	535,451	363,601	288,436	301,567	323,858	4.55%	7.39%
Intergovt Services & Taxes	931,294	979,237	999,004	982,000	1,004,000	1,022,000	2.24%	1.79%
Total Operating Expenses	4,554,737	5,358,367	4,658,569	4,970,388	5,423,078	5,580,169	9.11%	2.90%
Capital Expenses								
Salaries & Wages	30,398	42,500	17,022	-	-	-	0.00%	0.00%
Personnel Benefits	12,074	17,054	7,194	-	-	-	0.00%	0.00%
Supplies	2,544	-	3,846	-	-	-	0.00%	0.00%
Services	235,496	237,296	607,081	317,000	473,000	505,000	49.21%	6.77%
Capital Outlay	341,352	1,629,668	1,233,857	753,000	583,000	1,700,000	-22.58%	191.60%
Principal	132,734	132,333	133,992	133,992	134,242	135,801	0.19%	1.16%
Interest	15,449	14,066	14,500	14,500	172,050	192,952	1086.55%	12.15%
Total Capital Expenses	770,047	2,072,917	2,017,493	1,218,492	1,362,292	2,533,753	11.80%	85.99%
Transfers Out for Debt Service	-	-	40,634	81,180	136,714	136,714		
Indirect cost allocation	603,974	616,053	628,374	628,374	661,175	684,977	5.22%	3.60%
Total Transfers	603,974	616,053	669,008	709,554	797,889	821,691	12.45%	2.98%
Total Expenses	5,928,757	8,047,337	7,345,069	6,898,434	7,583,259	8,935,613	9.93%	17.83%
Change in Fund Balance	604,297	(989,728)	1,601,459	144,566	(266,259)	(1,411,613)	-284.18%	430.17%
Net working capital (Fund Balance)	\$ 6,688,109	\$ 5,698,381	\$ 8,289,568	\$ 5,842,947	\$ 8,023,309	\$ 6,611,696	37.32%	-17.59%

Capital Projects

The capital projects listed below are capital projects planned for the 2019-2020 biennium. The year in which the project is estimated to be completed has been provided. Additional information on the projects may be found in the Capital Improvement Program section of the budget document.

2019-2020 Water Capital Projects	2019 Budget	2020 Budget	Anticipated Completion
58th Ave S Water Main Replacement	\$ 679,000	\$ -	2019
Water Comprehensive Plan	140,000	140,000	2020
GIS Inventory of Water System	100,000	100,000	N/A
Macadam Rd S Water Upgrade	87,000	1,950,000	2020
Martin Luther King Jr Water Main	50,000		2022
Interurban Water Reuse		15,000	N/A
	\$ 1,056,000	\$ 2,205,000	

Debt Service Requirements

The following chart provides information on debt service requirements, by debt issue, for the biennium.

Debt Service	Project	Budget	
		2019	2020
2015 Revenue Bonds	Allentown Phase II		
Principal		39,191	40,720
Interest		7,938	7,021
	Total	47,130	47,741
PWTF 2001	Duwamish/Valley View		
Principal		14,454	14,454
Interest		217	145
	Total	14,671	14,599
PWTF 2004	Allentown Phase II		
Principal		80,625	80,625
Interest		2,419	2,016
	Total	83,044	82,641
Public Safety Plan 2018 Bond Issuance	Public Works Shops		
Interest		136,714	136,714
	Total	136,714	136,714
Public Safety Plan 2019 Bond Issuance	Public Works Shops		
Interest		22,313	44,625
	Total	22,313	44,625
Total Principal		134,271	135,799
Total Interest		169,600	190,520
Total Debt Service		\$ 303,871	\$ 326,320

Amortization of premiums and discounts are not included in this schedule but are included in the Revenue and Expense Summary statement.

Expenditure Detail - Salaries and Benefits

Salaries for budgeted positions are based on actual costs for existing positions and include a cost of living adjustment per contract agreements.

Public Works - Water							
Position Description	2018	2019	2019 Budget		2020	2020 Budget	
	FTE	FTE	Salaries	Benefits	FTE	Salaries	Benefits
Maint & Ops Superintendent	1	1	\$ 85,278	\$ 41,742	1	\$ 87,000	\$ 43,436
Maint & Ops Foreman	1	1	85,833	37,880	1	87,528	39,335
Maint & Ops Specialist	4	4	299,404	146,886	4	306,936	153,227
Water Quality Specialist	1	1	80,623	36,141	1	82,200	37,573
Development Manager	0	0.4	56,608	18,147	0.4	57,715	18,640
Senior Engineer	0.5	0	-	-	0	-	-
Extra Labor			4,000	396		4,000	396
Overtime			7,000	694		7,000	694
Clothing Allowance				1,330			1,330
Department Total	7.5	7.4	\$ 618,746	\$ 283,215	7.4	\$ 632,379	\$ 294,631

Water Operations & Maintenance Capital

The Water Department operations and maintenance capital purchases for 2019/2020 include \$23,500 in 2019 for a Vehicle Gateway Base Station (VGB). The VGB allows the reading of a new generation of 520m radios on the water meters. The Water Department also has \$30,000 budgeted (\$10,000 in 2019 and \$20,000 in 2020) for a Water Distribution Chlorine Analyzer, which allows us to sample chlorine residual once a day within several of the water distribution pressure zones, as required by the WA State Department of Health. In 2019, there is \$6,000 budgeted for a temporary potable water line for emergencies.

Expenditure Detail – Supplies, Services and Other

Supplies include miscellaneous operating supplies for the water utility and purchased water. Services including engineering and surveying, repair and replacement charges, insurance, utilities, registrations, and credit card fees, among others. Intergovernmental includes excise tax and interfund utility tax.

Water - Administration						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
401.01.534.800.31.00 Supplies -Office & Operating	\$ (1,934)	\$ 1,706	\$ 479	\$ 500	\$ 500	\$ 500
401.01.534.800.31.01 Supplies -Office & Safety	3,605	2,116	1,896	2,000	2,000	2,000
401.01.534.800.31.02 Supplies -Operating	15,042	26,753	21,695	26,000	26,000	26,000
401.01.534.800.31.03 Supplies -Repairs & Maintenance	49,561	57,329	60,655	58,500	58,500	58,500
401.01.534.800.31.04 Supplies -Billing	2,106	2,674	1,310	2,300	2,300	2,300
401.01.534.800.31.05 Supplies -Large Meters	42,002	30,146	16,022	55,000	55,000	55,000
401.01.534.800.33.01 Supplies -Purchased Water	2,524,605	2,905,004	2,291,131	2,650,000	3,050,250	3,142,000
401.01.534.800.33.04 Supplies -Reclaimed Water	3,794	4,211	11,907	10,000	10,000	10,000
401.01.534.800.35.00 Small Tools & Minor Equip -Tools	8,444	985	11,926	8,500	8,500	8,500
401.01.534.800.35.01 Small Tools & Minor Equip -Traffic control	2,866	828	446	2,500	2,500	2,500
Total Supplies	2,650,091	3,031,752	2,417,466	2,815,300	3,215,550	3,307,300

Expenditure Detail – Supplies, Services and Other, Continued

<i>Water - Administration, Continued</i>						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
401.01.534.800.41.00 Prof Svcs - Engineering services, water analysis, and computer programming	7,174	51,333	53,530	8,000	8,000	8,000
401.01.534.800.41.01 Prof Svcs -Utility one call services for utility line locates	527	632	656	500	500	500
401.01.534.800.41.02 Prof Svcs -CDL licenses, hearing tests	765	500	603	1,000	1,000	1,000
401.01.534.800.42.00 Communication -Phone bills and Nextels	720	2,001	2,776	2,500	2,500	2,500
401.01.534.800.43.00 Travel -Mileage, meals (for overtime), parking	109	923	935	1,500	1,500	1,500
401.01.534.800.45.00 Rental -Tapping machines, test pumps and other emergency equipment	3,042	1,230	3,142	1,500	1,500	1,500
401.01.534.800.45.94 Rental -Equip Replacement Fund	86,774	131,873	109,461	109,461	81,143	93,036
401.01.534.800.45.95 Rental -Equipment Rental O & M	46,188	76,010	73,868	73,868	80,003	85,775
401.01.534.800.46.01 Insurance -WCIA Liability	26,901	14,853	16,410	16,338	18,051	21,661
401.01.534.800.47.00 Public Utility -Gas, electricity, water, and sewer for water facilities	8	-	23	13,400	-	-
401.01.534.800.47.01 Public Utility - Disposal of spoils and asphalt from excavations	1,409	210	2,500	5,000	5,000	5,000
401.01.534.800.47.21 Public Utility -Electricity	15,842	18,247	22,766	5,000	19,320	20,286
401.01.534.800.47.25 Public Utility -Water and Sewer	1,089	960	1,909	1,000	1,050	1,100
401.01.534.800.48.00 R&M - Repairs to reservoir, PRV, water facilities and components	13,994	173,870	11,513	12,369	15,000	15,000
401.01.534.800.49.00 Misc - Registrations, training, memberships, computer upgrades, sm equip. repair	1,859	4,052	7,227	12,000	12,000	12,000
401.01.534.800.49.01 Misc -Operating permit from Dept of Health	5,279	4,943	4,943	5,000	5,000	5,000
401.01.534.800.49.08 Misc -PPI credit card fees	47,598	53,816	51,339	20,000	50,000	50,000
Total Services	259,278	535,451	363,601	288,436	301,567	323,858
401.01.534.800.53.00 Taxes & Assessments -Excise Tax	291,083	302,017	293,461	280,000	280,000	280,000
401.01.534.800.54.01 Interfund Taxes -Interfund Utility Tax	640,211	677,221	705,543	702,000	724,000	742,000
Total Intergovernmental	931,294	979,237	999,004	982,000	1,004,000	1,022,000
Total Supplies, Services and Other	\$ 3,840,664	\$ 4,546,440	\$ 3,780,072	\$ 4,085,736	\$ 4,521,117	\$ 4,653,158

Services include construction management related to capital projects. Capital includes capital projects specific to the water fund.

Water - Capital Outlays by Expenditure Type						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
401.98.594.340.31.00 Supplies -Office and Operating	\$ 2,544	\$ -	\$ 3,846	\$ -	\$ -	\$ -
Total Supplies	2,544	-	3,846	-	-	-
401.98.594.340.41.00 Professional Services -Construction management	234,400	237,296	607,081	317,000	473,000	505,000
401.98.594.340.44.00 Advertising -Bid ads	675	-	-	-	-	-
401.98.594.340.45.00 Advertising -Bid ads	421	0	-	-	-	-
Total Services	235,496	237,296	607,081	317,000	473,000	505,000
401.01.594.340.64.00 Capital -Machinery & Equipment	24,164	26,485	-	-	39,500	20,000
401.98.594.340.65.00 Capital -Construction Projects	317,187	1,603,183	1,226,663	753,000	583,000	1,700,000
Total Other	341,352	1,629,668	1,226,663	753,000	622,500	1,720,000
Total Capital	\$ 579,392	\$ 1,866,964	\$ 1,837,590	\$ 1,070,000	\$ 1,095,500	\$ 2,225,000

City of Tukwila
CAPITAL IMPROVEMENT PROGRAM
 for
 2019 - 2024

WATER ENTERPRISE FUND
401.98

CIP Page #	PROJECT TITLE	2019	2020	2021	2022	2023	2024	TOTAL	**Other Sources	After Six Years
62	Interurban Water Reuse	0	15	10	0	25	0	50	0	0
63	58th Ave S Water Main Replacement	679	0	0	0	0	0	679	0	0
64	Water Comprehensive Plan	140	140	0	0	0	0	280	0	0
65	GIS Inventory of Water System	100	100	100	0	0	0	300	0	0
66	Macadam Rd S Water Upgrade	87	1,950	0	0	0	0	2,037	0	0
67	Martin Luther King Jr Way S Water Main	50	0	313	156	0	0	519	0	0
68	S 152nd Place Waterline Replacement	0	0	20	110	0	0	130	0	0
69	Water Reservoir 1.5 million Gallon Capacity	0	0	0	600	3,500	3,000	7,100	6,000	0
70	Crystal Springs Intertie with Highline WD	0	0	0	50	180	0	230	0	0
71	S 152nd Street Waterline Replacement	0	0	0	0	80	690	770	0	0
72	57th Ave S Waterline Replacement	0	0	0	0	0	270	270	0	0
73	Minkler Blvd Water Looping	0	0	0	0	0	390	390	0	0
	S 140th St Waterline Replacement	0	0	0	0	0	0	0	0	260
	Southcenter Blvd Water Main Replacement	0	0	0	0	0	0	0	0	870
	S 180th & W Valley Loop/Renton Turnover	0	0	0	0	0	0	0	0	2,464
	Foster Area Water Upgrade	0	0	0	0	0	0	0	0	1,390
	West Valley Hwy East Side Water Looping	0	0	0	0	0	0	0	0	1,400
	West Valley Deep Water Main Replacement	0	0	0	0	0	0	0	0	690
	65th Ave S Water Main Replacement	0	0	0	0	0	0	0	0	2,240
	49th Ave S Water Main Replacement	0	0	0	0	0	0	0	0	1,400
	S 180th St Water Main Replacement	0	0	0	0	0	0	0	0	1,232
	Evans Black Dr Water Main Replacement	0	0	0	0	0	0	0	0	780
	S 112 St Water Looping	0	0	0	0	0	0	0	0	1,140
	S 153rd St Water Main Replacement	0	0	0	0	0	0	0	0	350
	Corporate Dr S Water Main Replacement	0	0	0	0	0	0	0	0	560
	Allentown Phase III - Water Revitalization	0	0	0	0	0	0	0	0	560
	Foster Playfield Reclaimed Water Extension	0	0	0	0	0	0	0	0	1,680
	Duwamish River Crossing Reclaimed Water	0	0	0	0	0	0	0	0	193
	Strander Blvd Waterline Upgrade	0	0	0	0	0	0	0	0	3,190
	Baker Blvd Water Main Replacement	0	0	0	0	0	0	0	0	1,595
Grand Total		1,056	2,205	443	916	3,785	4,350	12,755	6,000	21,994

** Denotes other funding sources, grants, or mitigation.

Changes from 2017 to 2019 CIP:

Deleted:

Andover Park E Water Main Replacement, completed in 2017/2018.
 53rd Ave S Water Main Replacement, water completed in 2018.
 Minkler Blvd Water Main Replacement, not needed with new PW Shop location.

New:

Baker Blvd Water Main Replacement

Project sheets scheduled beyond 2024
 can be found in the City's website under
 Public Works Capital Improvement Program.

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Interurban Water Reuse Project No. 99240106

DESCRIPTION: Develop water reuse along the Interurban corridor with Class A treated wastewater from the Eastside Reclamation Facility for irrigation, sewer flushing, sweeping, dust control, and other non-potable uses.

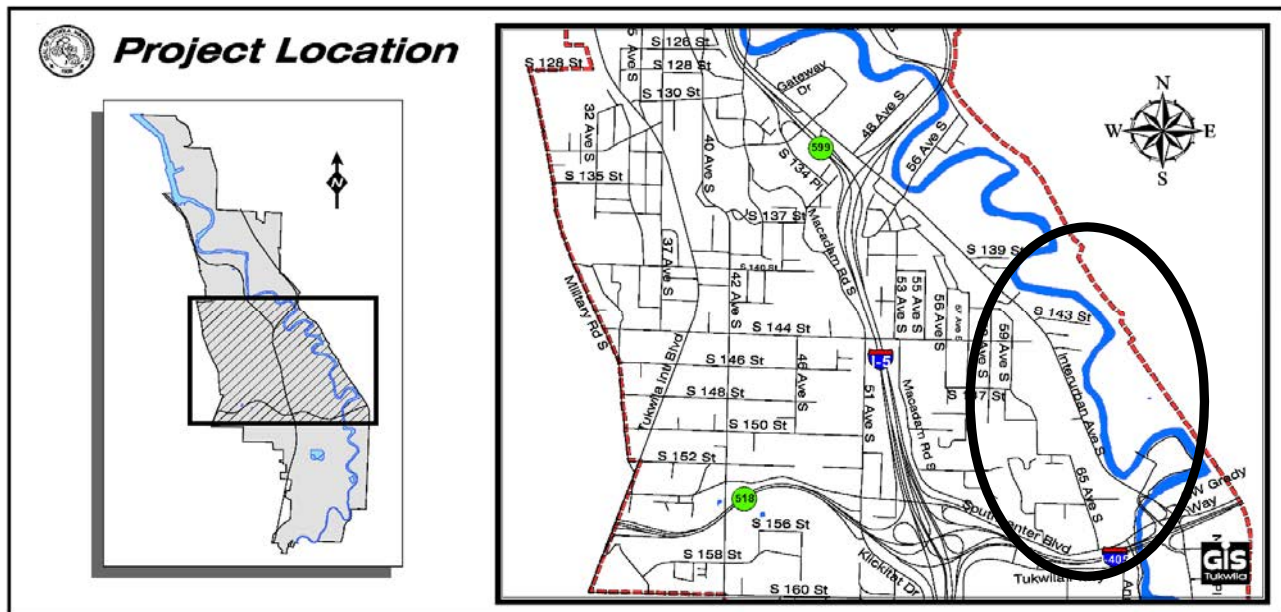
JUSTIFICATION: Using reclaimed water is an element of the City's Water Conservation Plan as well as the Cascade Water Transmission and Supply Plan.

STATUS: These funds will be used for engineering and construction to assist potential connections to the King County reclaimed water line.

MAINT. IMPACT: Future maintenance and operation of the new meters, tracking and preventing cross-connections.

COMMENT: KC Dept of Natural Resources funded the construction of additional portions for installation of the reuse water line.

FINANCIAL (in \$000's)	Through		Estimated							
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	5			15	10		25		25	80
Land (R/W)										0
Const. Mgmt.	6									6
Construction	111									111
TOTAL EXPENSES	122	0	0	15	10	0	25	0	25	197
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	122	0	0	15	10	0	25	0	25	197
TOTAL SOURCES	122	0	0	15	10	0	25	0	25	197



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: 58th Ave S Water Main Replacement

Project No. 90540102

DESCRIPTION: Design and construct 680 LF of 8" ductile iron waterline to replace the old cast iron waterline in 58th Ave S from S 142nd St to S 144th St. Construction also includes overlay of the street.

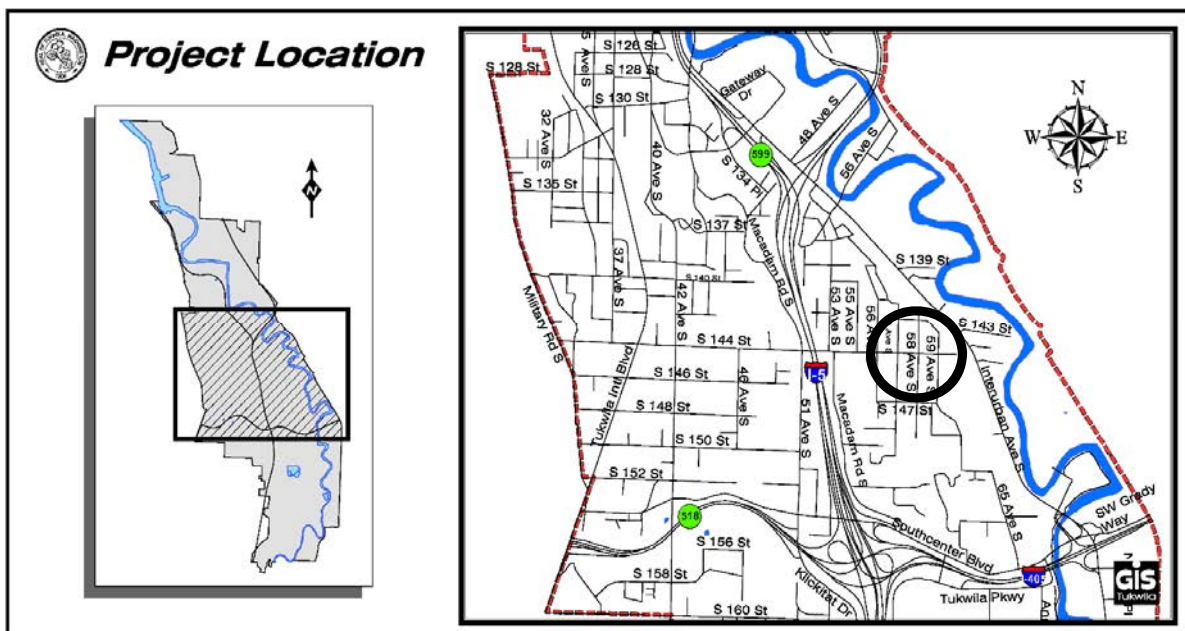
JUSTIFICATION: The existing waterline is cast iron and is subject to cracking and breaking apart with age.

STATUS: Design completed in 2016 with review and construction in 2019.

MAINT. IMPACT: The new waterline will significantly reduce impact on crews from the risk of failure.

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated							BEYOND	TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024			
EXPENSES											
Design	21	1	10								32
Land (R/W)											0
Const. Mgmt.			86								86
Construction			583								583
TOTAL EXPENSES	21	1	679	0	0	0	0	0	0	0	701
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	21	1	679	0	0	0	0	0	0	0	701
TOTAL SOURCES	21	1	679	0	0	0	0	0	0	0	701



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Water Comprehensive Plan

Project No. 91040101

DESCRIPTION: Prepare the new Water Comprehensive Plan incorporating any regulatory or new Growth Management Act Comprehensive Plan issues related to running the water utility.

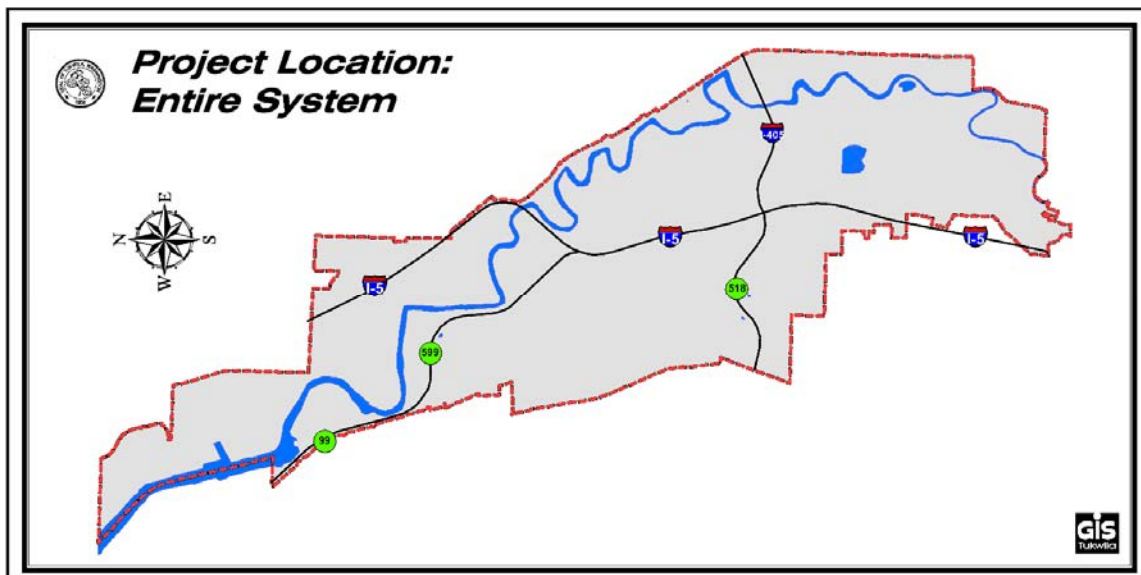
JUSTIFICATION: Plan needs to be consistent with City's Comprehensive Plan and the Department of Health requires the plan to be updated every 6 years.

STATUS: Current Water update was adopted in 2015. The next update is scheduled for 2021.

MAINT. IMPACT:

COMMENT:

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	234		140	140						514
Land (R/W)										0
Const. Mgmt.										0
Construction										0
TOTAL EXPENSES	234	0	140	140	0	0	0	0	0	514
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	234	0	140	140	0	0	0	0	0	514
TOTAL SOURCES	234	0	140	140	0	0	0	0	0	514



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: GIS Inventory of Water System

Project No. 81640104

DESCRIPTION: The GIS (Geographic Information System) will provide current as-built data for the Tukwila water system. The data base will include fire hydrants, valve locations, approximate water line locations, date of installation, and material type.

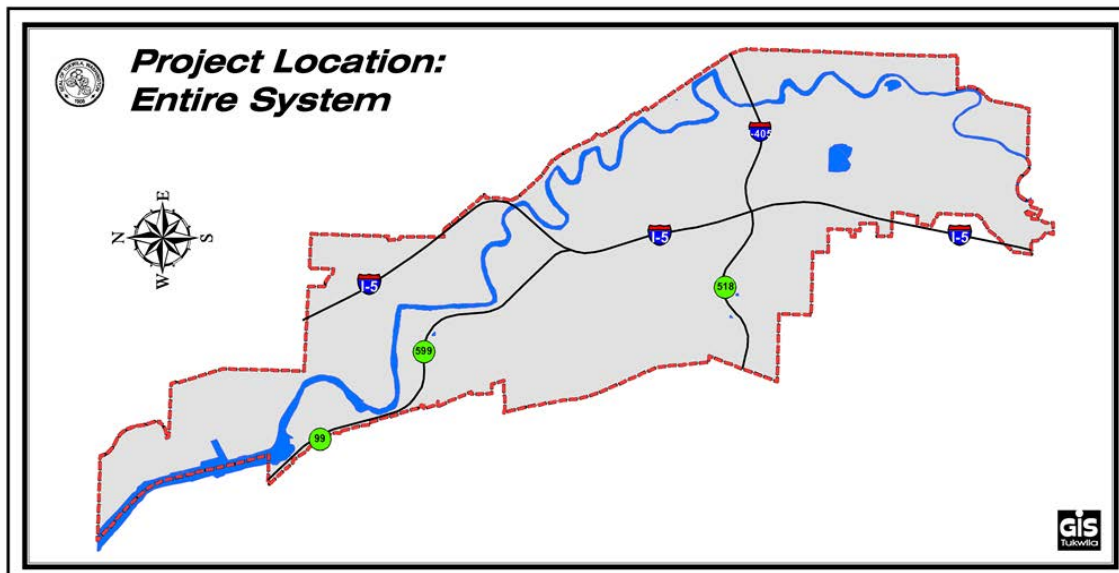
JUSTIFICATION: The GIS mapping will provide information on the water system that is easily addressable by City staff and the public. With GIS data, the City will be able to develop an asset management plan to determine the water assets needed to be upgraded or replaced.

STATUS: Combined Asset Management System began in 2017.

MAINT. IMPACT: The survey will provide staff with-up-date information on the location of water line features.

COMMENT:

FINANCIAL (in \$000's)	Through Estimated										
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL	
EXPENSES											
Design	10	115	100	100	100					425	
Land (R/W)										0	
Const. Mgmt.										0	
Construction										0	
TOTAL EXPENSES	10	115	100	100	100	0	0	0	0	425	
FUND SOURCES											
Awarded Grant										0	
Proposed Grant										0	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	10	115	100	100	100	0	0	0	0	425	
TOTAL SOURCES	10	115	100	100	100	0	0	0	0	425	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Martin Luther King Jr Way S Water Main** Project No. 90640102

DESCRIPTION: Design and construct replacement of 800 LF of 12" water line and hydrants.

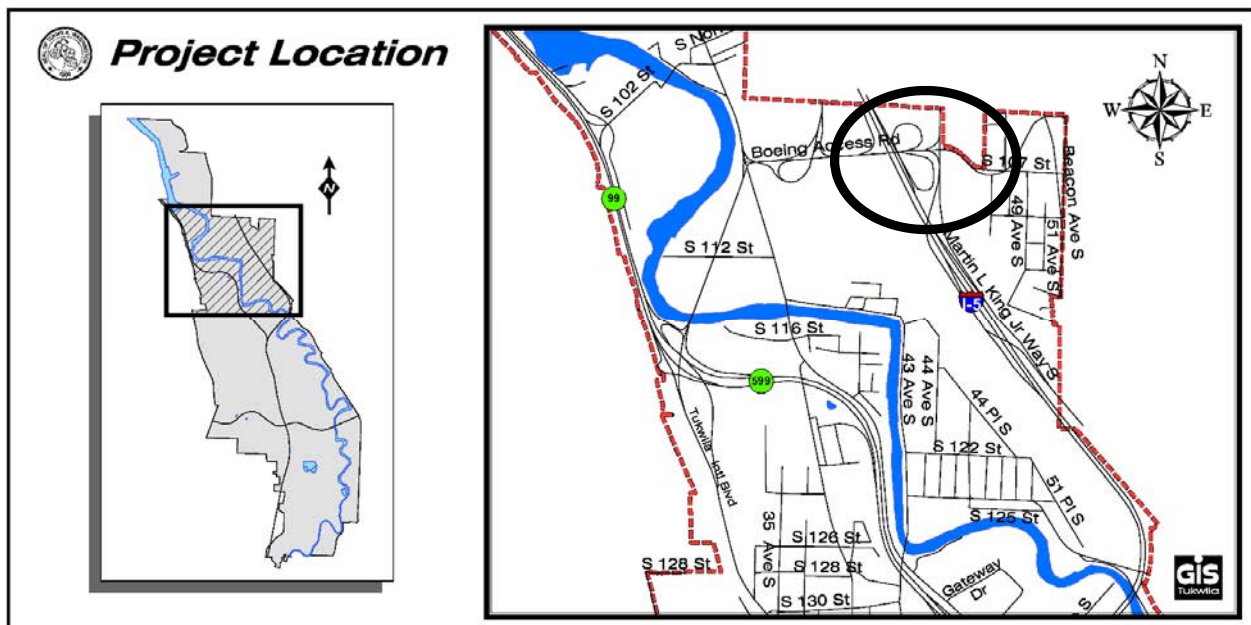
JUSTIFICATION: During the construction of Sound Transit light rail along Martin Luther King Jr Way South, the existing 12" D.I.P. waterline was found to be heavily covered with corrosion.

STATUS: Design will begin in 2019 with construction in 2020/21.

MAINT. IMPACT: A relined pipe will reduce the risk of failure.

COMMENT: Project will require a franchise agreement with WSDOT for existing waterline located in WSDOT right-of-way.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	1	25	50							76
Land (R/W)										0
Const. Mgmt.					40	40				80
Construction					273	116				389
TOTAL EXPENSES	1	25	50	0	313	156	0	0	0	545
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	1	25	50	0	313	156	0	0	0	545
TOTAL SOURCES	1	25	50	0	313	156	0	0	0	545



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: S 152nd Place Waterline Replacement

Project No. 91640103

DESCRIPTION: Design and construct 150 LF of 8" ductile iron waterline in S 152nd Place to Sunwood Blvd.

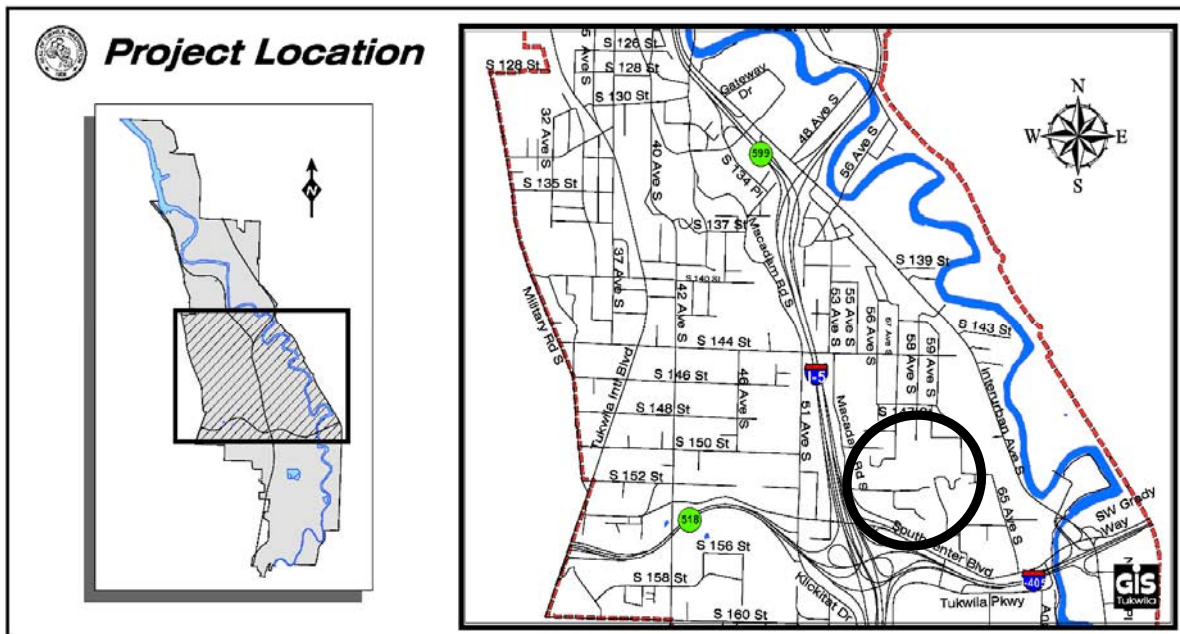
JUSTIFICATION: The proposed waterline will also meet fire flow requirements.

STATUS: Easement acquisitions will be needed.

MAINT. IMPACT: To remove a dead-end in South 152nd Place to improve water quality.

COMMENT:

FINANCIAL (in \$000's)	Through Estimated									TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design					20	30				50
Land (R/W)										0
Const. Mgmt.						10				10
Construction						70				70
TOTAL EXPENSES	0	0	0	0	20	110	0	0	0	130
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	0	0	0	0	20	110	0	0	0	130
TOTAL SOURCES	0	0	0	0	20	110	0	0	0	130



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Water Reservoir and Pump Station

Project No. 91240102

DESCRIPTION: Design and construct a new 1.5 million gallon water storage reservoir with a 3,300 gpm pump station.

JUSTIFICATION: The Department of Health is requiring that the City provide additional water storage in the 360 pressure zone, which includes the Commercial Business District. A pump station is needed for fire flow.

STATUS: Design funds in 2017/18 will study the possibility of using Highline's CrestView Reservoir's extra capacity instead of building a new reservoir.

MAINT. IMPACT: Additional staff will be needed to provide maintenance for the new reservoir and pumps.

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated							
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	28	50				500	500			1,078
Land (R/W)						100				100
Const. Mgmt.							400	400		800
Construction							2,600	2,600		5,200
TOTAL EXPENSES	28	50	0	0	0	600	3,500	3,000	0	7,178
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Bond							3,000	3,000		6,000
Mitigation Expected										0
Utility Revenue	28	50	0	0	0	600	500	0	0	1,178
TOTAL SOURCES	28	50	0	0	0	600	3,500	3,000	0	7,178

Location to be determined.

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Crystal Springs Intertie with Highline Water District** Project No. 91040104

DESCRIPTION: Supply an emergency intertie for 10-12 customers within the Crystal Springs pressure zone.

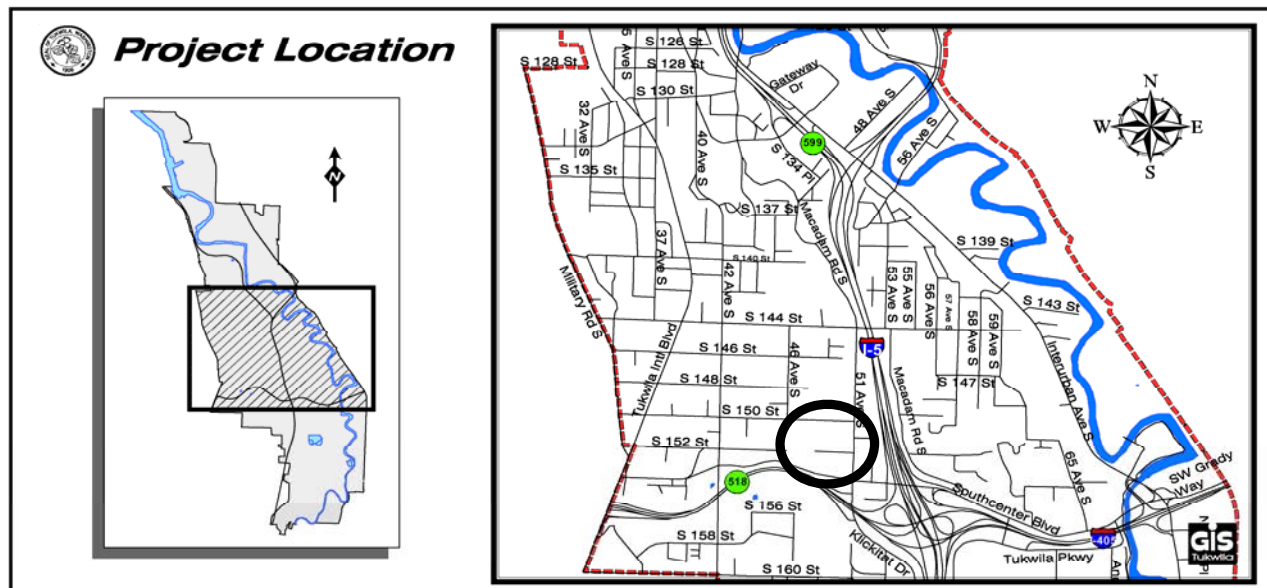
JUSTIFICATION: An intertie feed from the City's 360-zone was cut off with the WSDOT reconstruction of Klickitat Drive at the SR 518 off-ramp. If the Seattle supply tap becomes unavailable, there would be no service or fire flow for customers.

STATUS: A Parks department meter could be temporarily set up during maintenance closures, but hydrants would still be unavailable.

MAINT. IMPACT: Maintenance liabilities would be reduced and temporary measures would save time and prevent vandalism.

COMMENT: This project may not be required if the area is transferred to Highline Water District.

FINANCIAL (in \$000's)	Through		Estimated							
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design						50				50
Land (R/W)										0
Const. Mgmt.							30			30
Construction							150			150
TOTAL EXPENSES	0	0	0	0	0	50	180	0	0	230
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	0	0	0	0	0	50	180	0	0	230
TOTAL SOURCES	0	0	0	0	0	50	180	0	0	230



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: S 152nd Street Waterline Replacement

Project No. 91640102

DESCRIPTION: Design and construct 1,600 LF of 10" ductile iron waterline to replace the old 6" cast iron waterline in S 152nd St from Macadam Rd S east to the end of the pipe near 58th Ave S.

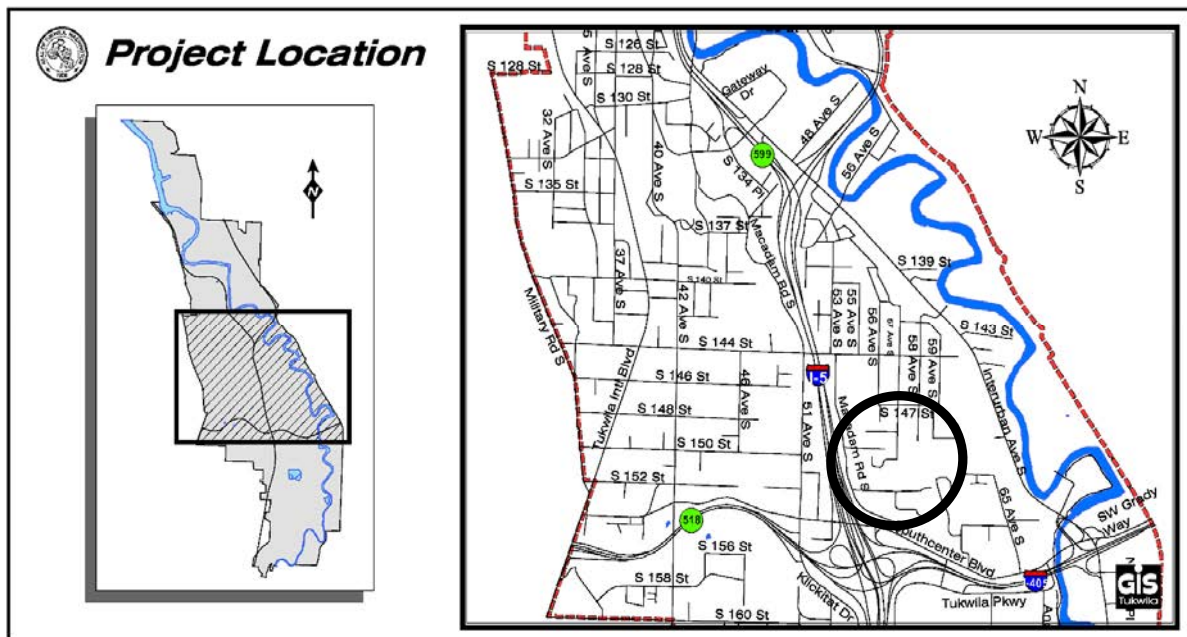
JUSTIFICATION: The existing waterline is cast iron and is subject to cracking and breaking apart with age.

STATUS:

MAINT. IMPACT: The proposed waterline will also meet fire flow requirements.

COMMENT:

FINANCIAL (in \$000's)	Through Estimated									TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design							80			80
Land (R/W)										0
Const. Mgmt.								90		90
Construction								600		600
TOTAL EXPENSES	0	0	0	0	0	0	80	690	0	770
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	0	0	0	0	0	0	80	690	0	770
TOTAL SOURCES	0	0	0	0	0	0	80	690	0	770



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: 57th Ave S Waterline Replacement

Project No. 91640105

DESCRIPTION: Design and construct 660 LF of 8" ductile iron pipe waterline to replace the old 6" cast iron waterline in 57th Ave S from S 152nd St to S 150th Pl.

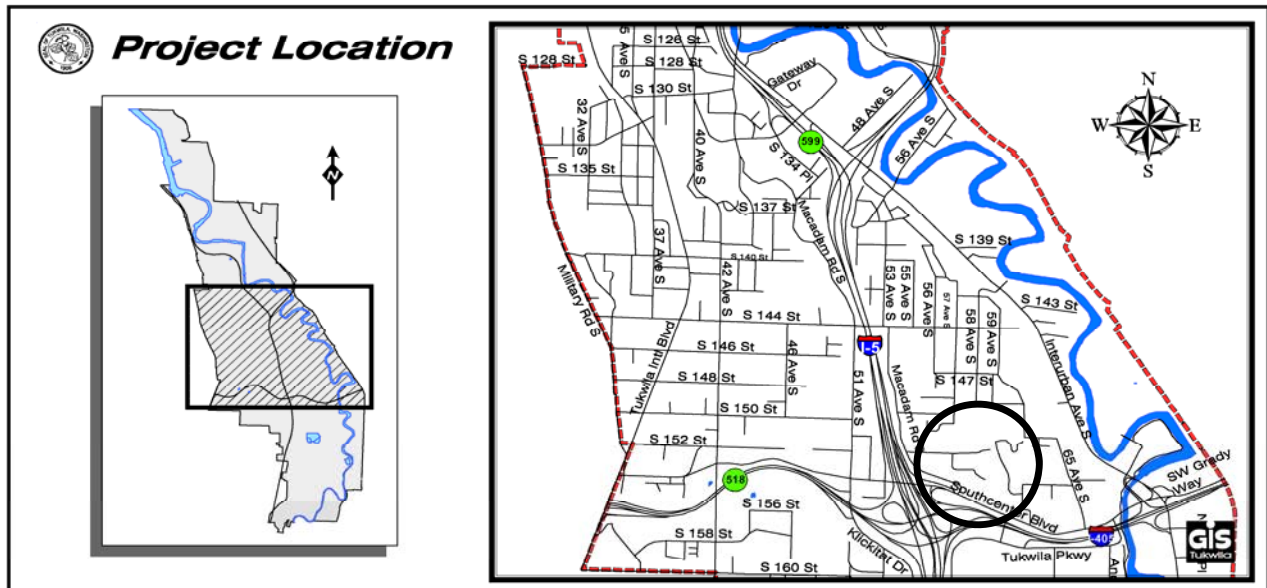
JUSTIFICATION: The existing waterline is cast iron and subject to cracking and breaking apart with age.

STATUS:

MAINT. IMPACT: The proposed waterline is required to meet fire flow requirements.

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design									40		40
Land (R/W)											0
Const. Mgmt.									30		30
Construction									200		200
TOTAL EXPENSES	0	0	0	0	0	0	0	0	270	0	270
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	0	0	0	0	0	0	0	0	270	0	270
TOTAL SOURCES	0	0	0	0	0	0	0	0	270	0	270



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Minkler Blvd Water Looping

Project No. 99440101

DESCRIPTION:

Design and construct 350 LF of 12" ductile iron pipe to interconnect Southcenter Square with Andover Park West.

JUSTIFICATION:

Improvement in fire flow with a corresponding decrease in pressure fluctuations. Brings in a secondary feed in case of Southcenter Parkway shutdowns.

STATUS:

In 2014, development installed 350' of water main to provide fire protection for the new motel. An additional 350 feet of pipe is needed to complete the pipe run from APW to Southcenter Pkwy.

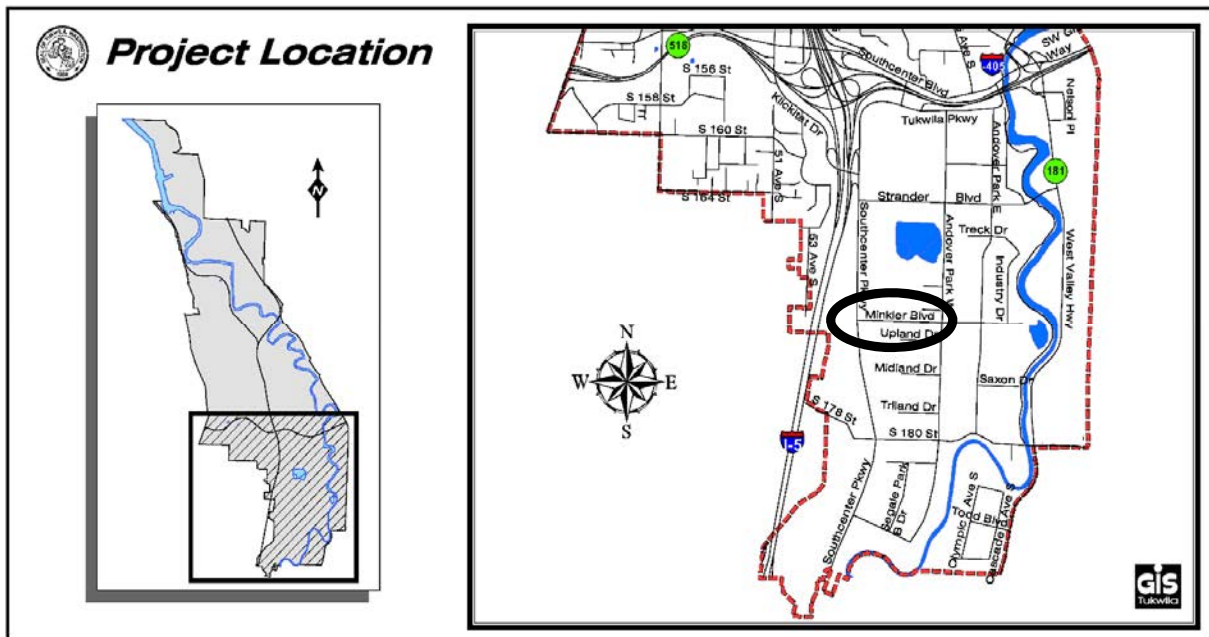
MAINT. IMPACT:

Better redundancy and service for critical business customers.

COMMENT:

Costs are high as the work is in the intersection of Minkler Blvd and APW.

FINANCIAL (in \$000's)	Through Estimated									TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design								45		45
Land (R/W)										0
Const. Mgmt.								45		45
Construction								300		300
TOTAL EXPENSES	0	0	0	0	0	0	0	390	0	390
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	0	0	0	0	0	0	0	390	0	390
TOTAL SOURCES	0	0	0	0	0	0	0	390	0	390



ATTACHMENT E
City of Tukwila
SEWER ENTERPRISE FUND
2019 - 2024 Analysis in 000's

REVENUES	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Totals
Monthly Sewer Charges	+15%	+0%	+5.2%	+3.5%	+3.5%	KC	0%	KC	0%	KC	0%	
King County Metro Sewer ⁽¹⁾	3,866	4,299	4,546	4,337	4,646	4,762	4,762	4,977	4,977	5,089	5,206	29,773
Regular City Sewer ⁽²⁾	4,971	4,641	4,865	4,120	4,720	4,720	4,720	4,725	4,730	4,735	4,720	28,350
Subtotal Sewer Revenue	8,837	8,940	9,411	8,457	9,366	9,482	9,482	9,702	9,707	9,824	9,926	58,123
Other Misc. Revenue	228	290	328	217	300	305	305	300	300	300	300	1,810
Grant/Bonds/PWTF	504	22	0	0	0	0	0	0	0	0	0	0
Sewer Connection Fees ⁽³⁾	206	248	328	125	236	125	125	0	100	0	100	450
Total Revenues	9,775	9,500	10,067	8,799	9,902	9,912	9,912	10,002	10,107	10,124	10,326	60,383
EXPENDITURES												
Sewer Operations & Maintenance												
King County Metro Sewer ⁽⁴⁾	3,866	4,299	4,546	4,337	4,646	4,762	4,762	4,977	4,977	5,089	5,206	29,773
Regular City Sewer ⁽⁵⁾	1,884	1,649	1,618	1,355	1,778	1,447	1,493	1,922	1,980	2,039	2,100	10,981
Debt Service ⁽⁶⁾	410	362	358	360	360	359	360	353	353	305	304	2,034
<i>Debt Service for PW Shops</i>				49	49	89	101	240	240	240	240	1,150
Interfund Utility Tax ⁽⁷⁾ 10%	902	920	972	867	967	979	979	1,000	1,001	1,012	1,023	5,993
Engineering Labor ⁽⁹⁾	90	26	79	86	86	74	76	78	80	82	84	474
Subtotal	7,152	7,256	7,573	7,054	7,886	7,710	7,771	8,570	8,631	8,767	8,957	50,405
Sewer Capital - CIP Program	980	1,970	1,468	1,565	2,045	2,956	1,900	1,855	735	938	1,010	9,394
Total Expenditures	8,132	9,226	9,041	8,619	9,931	10,666	9,671	10,425	9,366	9,705	9,967	59,799
FUND BALANCE												
Change in Fund Balance ^(a)	1,643	274	1,026	180	(29)	(754)	241	(423)	741	419	359	584
Beginning Balance	5,285	7,827	8,697	4,434	9,723	9,694	8,941	9,182	8,759	9,500	9,919	9,694
Ending Balance	6,928	8,101	9,723	4,614	9,694	8,941	9,182	8,759	9,500	9,919	10,278	10,278

Fund Balance:	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Totals
Reserved ^(b) 20% of revenue	1,715	1,854	1,896	1,854	1,854	1,760	1,982	1,982	2,000	2,021	2,025	2,025
Unreserved	5,213	6,247	7,827	2,759	7,840	7,181	7,200	6,776	7,500	7,897	8,253	8,253
Ending Balance	6,928	8,101	9,723	4,614	9,694	8,941	9,182	8,759	9,500	9,919	10,278	10,278

^(a) Revenues in excess of (less than) expenditures

^(b) Annual reserve balance requirement equals 20% of the prior year operating revenues.

ATTACHMENT E-1

NOTES TO SEWER ENTERPRISE FUND

- 1) King County Metro sewer and Tukwila’s sewer have been split out to present the revenues separately. Metro increases will be passed through to the sewer ratepayers. King County Metro sewer fees will increase 2.51% in 2019 per KC Ordinance No. 18745 and we have factored in potential King County increases for 2020 through 2024.
- 2) No rate increases are proposed for Tukwila sewer. We will continue with the annual rate model review to confirm that the proposed increases are necessary.
- 3) Sewer connection fees for Allentown Phase I and Allentown/Foster Point Phase II.
- 4) King County Metro Sewer treatment fees are passed through to ratepayers.
- 5) City’s basic operation and maintenance costs.
- 6) Includes the Public Works Trust Fund (PWTF) Loan and the 2006 Bond for the Allentown/Foster Point Phase II Sewer Improvement Project.

Sewer Debt Service includes:	<u>Expires</u>	<u>2019</u>	<u>2020</u>
2004 PWTF Allentown (62%)	7/1/24	\$198,028.61	\$197,067.30
2006 Bond Allentown (62%)	12/31/26	112,385.83	113,843.31
2013 PWTF CBD Sewer Rehab	12/31/33	44,263.00	44,263.00
2018 Public Works Shops (10%)	12/31/38	<u>88,868.00</u>	<u>101,337.00</u>
	Total	<u>\$443,545.44</u>	<u>\$456,510.61</u>

- 7) An Interfund Utility Tax was approved in October 2009 for the water, sewer, and surface water utilities. Gross revenues are currently taxed 10% through December 31, 2021.
- 8) The Working Capital Reserve Fund’s policy was updated in 2012 per Resolution No. 1774 to maintain an adequate fund balance in each of the enterprise funds. For the Enterprise Funds, the unrestricted fund balance shall equal or exceed 20% of the previous year’s revenue, exclusive of significant non-operating, non-recurring revenues.
- 9) The Senior Water/Sewer Engineer’s salary and benefits are split evenly between the water department and the sewer department.

Sewer Enterprise Fund

The City’s Enterprise Funds account for utility operations that are self-supported through user charges. The utilities are financed and operated like a private business enterprise which requires periodic determination of revenues earned; expenses incurred, and net income for capital maintenance, public policy, management control and accountability. The Sewer Fund accounts for operations and capital improvements to provide sanitary sewer to a portion of City residents. Valley View Sewer District also provides sewer in the City.

DEPARTMENT: Public Works
FUND: Sewer
RESPONSIBLE MANAGER: Henry Hash

FUND NUMBER: 402
POSITION: Director

Description

The mission of the Sewer Utility is to operate and maintain a sewer collection system that will ensure the health, safety, and welfare of the citizens and visitors of Tukwila. The Sewer Utility is responsible for the maintenance of approximately 40 miles of gravity sewer main and the operation and maintenance of 12 lift stations and force mains. These lift stations pump approximately 60% of all sewage in the City (approximately 460 million gallons). The Sewer Utility maintains relationships with adjoining jurisdictions, cities, water districts, sewer districts, King County Department of Natural Resources & Parks, Wastewater Treatment Division, State Department of Ecology, State Department of Health, and King County Health Department.

2017-2018 Accomplishments

- ◆ Evaluated system-wide conditions for potential upgrades for Annual Sewer Repair Program.
- ◆ Ongoing construction of CBD Sanitary Sewer Rehabilitation.
- ◆ Completed construction 53rd Ave S Sewer Rehabilitation.
- ◆ Completed construction of Andover Park E Sewer Replacement.
- ◆ Continued development of the GIS as-builts of city sewer infrastructure.

2019-2020 Outcome Goals

- ◆ Improve sewer system efficiency. **Strategic Goal 1. Utility Comp Plan Goal 12.1**
- ◆ Improve sewer system reliability. **Strategic Goal 1. Utility Comp Plan Goal 12.1**
- ◆ Improve sewer system capacity. **Strategic Goal 1. Utility Comp Plan Goal 12.1**

2019-2020 Indicators of Success

- ◆ Evaluate system-wide conditions for potential upgrades for Annual Sewer Repair Program.
- ◆ Ongoing construction of CBD Sanitary Sewer Rehabilitation.
- ◆ Complete update to Sewer Comprehensive Plan.
- ◆ Replace generator, control system and concrete slab at Sewer Lift Station #2.
- ◆ Upgrade the electrical at Lift Station No. 4.
- ◆ Complete construction of Fort Dent Park Sewer Relocation Project.
- ◆ Continued development of the GIS as-builts of city sewer infrastructure.

Performance Measures

Sewer	Actual			Projected	
	2016	2017	Estimated 2018	2019	2020
Maintain and Improve Sewer System					
Number of linear feet TV inspected	10,000	10,000	10,000	10,000	10,000
Number of linear feet of sewer pipe jet cleaned	200,000	200,000	200,000	206,000	206,000
Number of manholes cleaned	850	850	850	1,261	1,261
Capital					
Hours of 10 sewer lift stations monitoring of pump hours, start counts, and generator operation (weekly)	11	11	11	2 FTEs 11hrs a week	2 FTEs 11hrs a week
Customers					
Number of sewer customers	1,760	1,770	1,833	1,840	1,850
Number of total sewer system miles	40.30	41.00	41.00	39.00	39.00

Revenue and Expense Summary

Sewer								
	Actual			Budget			Percent Change	
	2016	2017	Projected 2018	2018	2019	2020	2018-19	2019-20
Operating Revenue								
Charges for Services								
Sewer Sales	\$ 9,186,732	\$ 9,706,584	\$ 9,298,061	\$ 8,644,000	\$ 9,732,000	\$ 9,732,000	12.59%	0.00%
Total Charges for Services	9,186,732	9,706,584	9,298,061	8,644,000	9,732,000	9,732,000	12.59%	0.00%
Miscellaneous Revenue								
Investment Earnings	42,624	33,110	107,132	30,000	55,000	55,000	83.33%	0.00%
Total Miscellaneous Revenue	42,624	33,110	107,132	30,000	55,000	55,000	83.33%	0.00%
Total Operating Revenue	9,229,356	9,739,694	9,405,193	8,674,000	9,787,000	9,787,000	12.83%	0.00%
Capital Project Revenue								
Intergovernmental -Grants	270,857	327,675	229,525	125,000	125,000	125,000	0.00%	0.00%
Transfer In from Fund 306	-	-	522,500	-	-	-	0.00%	0.00%
Long-Term Debt Proceeds	-	-	-	-	-	-	0.00%	0.00%
Total Capital Project Revenue	270,857	327,675	752,025	125,000	125,000	125,000	0.00%	0.00%
Total Revenue	9,500,213	10,067,369	10,157,217	8,799,000	9,912,000	9,912,000	12.65%	0.00%
Operating Expenses								
Salaries & Wages	349,521	347,059	363,442	366,890	389,529	399,958	6.17%	2.68%
Personnel Benefits	199,031	95,371	165,418	163,085	175,229	182,586	7.45%	4.20%
Supplies	4,323,565	4,563,497	4,555,763	4,374,100	4,788,600	4,788,600	9.48%	0.00%
Services	1,484,120	704,694	246,052	259,617	278,548	302,957	7.29%	8.76%
Intergov't Services & Taxes	1,057,474	1,107,991	1,103,790	1,002,000	1,113,700	1,113,700	11.15%	0.00%
Total Operating Expenses	7,413,709	6,818,612	6,434,464	6,165,692	6,745,606	6,787,801	9.41%	0.63%
CIP Expenses								
Salaries & Wages	35,912	35,905	32,381	-	-	-	0.00%	0.00%
Personnel Benefits	14,204	15,168	10,236	-	-	-	0.00%	0.00%
Supplies	-	-	1,990	-	-	-	0.00%	0.00%
Services	171,515	209,777	213,680	265,000	533,000	400,000	101.13%	-24.95%
Capital Outlay	479,411	1,212,377	1,312,542	1,300,000	2,423,000	1,500,000	86.38%	-38.09%
Principal	323,226	322,271	326,225	326,225	326,892	330,537	0.20%	1.12%
Interest	39,271	35,941	33,548	33,547	119,088	128,194	254.99%	7.65%
Total Capital Expenses	1,063,538	1,831,438	1,930,602	1,924,772	3,401,980	2,358,731	76.75%	-30.67%
Non-Cash Accounting Adjustments								
Operating Prior Period Adjustment	(398,495)	-	-	-	-	-	0.00%	0.00%
Capital Prior Period Adjustment	398,495	-	-	-	-	-	0.00%	0.00%
Revenue Bond Refunding	-	120,472	-	-	-	-	0.00%	0.00%
GASB 68 Pension Adjustment	-	(14,269)	-	-	-	-	0.00%	0.00%
Transfer Out for Debt Service	-	-	22,708	49,200	76,399	76,399	55.28%	0.00%
Indirect cost allocation	460,100	469,302	478,688	478,688	504,022	522,167	5.29%	3.60%
Total Non-Cash Accounting Adjustments	460,100	575,505	501,396	527,888	580,421	598,566	9.95%	3.13%
Total Expenses	8,937,348	9,225,555	8,866,462	8,618,352	10,728,007	9,745,097	24.48%	-9.16%
Change in Fund Balance	562,865	841,814	1,290,755	180,648	(816,007)	166,903	-551.71%	-120.45%
Net working capital (Fund Balance)	8,140,704	8,982,518	10,273,273	9,163,166	9,457,266	9,624,169	3.21%	1.76%

Capital Projects

The capital projects listed below are capital projects planned for the 2019-2020 biennium. The year in which the project is estimated to be completed has been provided. Additional information on the projects may be found in the Capital Improvement Program section of the budget document as well as the Capital Improvement Program document, which is adopted annually.

2019-2020 Sewer Capital Projects	2019 Budget	2020 Budget	Anticipated Completion
Annual Sewer Repair	\$ 369,000	\$ 210,000	N/A
CBD Sanitary Sewer Rehabilitation	1,265,000	1,265,000	2021
Fort Dent Park BNSF Sewer Relocation	972,000	-	2019
Sewer Repair West of Strander Blvd Bridge	160,000	-	2019
Sewer Comprehensive Plan	140,000	140,000	2020
GIS Inventory of Sewer System	50,000	25,000	2020
Sewer Lift Station No. 2 Upgrades	-	260,000	2020
	\$ 2,956,000	\$ 1,900,000	

Sewer Fund – Debt Service Requirements

The following chart provides information on debt service requirements, by debt issue, for the biennium.

Debt Service	Project	Budget	
		2019	2020
2015 Revenue Bonds	Allentown Phase II		
Principal		\$ 93,456	\$ 97,101
Interest		18,930	16,743
		112,386	113,843
PWTFL 2004	Allentown Phase II		
Principal		192,261	192,261
Interest		5,768	4,807
		198,029	197,067
PWTFL 2014	CBD Sewer Rehab		
Principal		41,175	41,175
Interest		2,882	2,676
		44,057	43,851
Public Safety Plan	Public Works Shops		
2018 Bond Issuance			
Interest		76,399	76,399
	Total	76,399	76,399
Public Safety Plan	Public Works Shops		
2019 Bond Issuance			
Interest		12,469	24,938
	Total	12,469	24,938
Total Principal		326,892	330,536
Total Interest		116,447	125,562
Total Debt Service		\$ 443,339	\$ 456,098

Amortization of premiums and discounts are not included in this schedule but are included in the Revenue and Expense Summary statement.

Expenditure Detail - Salaries and Benefits

Salaries for budgeted positions are based on actual costs for existing positions and include a cost of living adjustment per contract agreements.

Sewer							
Position Description	2018	2019	2019 Budget		2020	2020 Budget	
	FTE	FTE	Salaries	Benefits	FTE	Salaries	Benefits
Maint & Ops Superintendent	0.5	0.5	\$ 48,687	\$ 15,464	0.5	\$ 52,141	\$ 16,510
Maint & Ops Foreman	1	1	86,243	44,953	1	88,128	46,832
Sr Maint & Ops Specialist	1	1	80,913	36,200	1	82,488	37,632
Maint & Ops Specialist	1.5	1.5	112,637	59,454	1.5	115,044	61,961
Senior Engineer	0.5	-	-	-	-	-	-
Development Manager	0	0.4	56,608	18,147	0.4	57,715	18,640
Overtime			4,442	440		4,442	440
Clothing Allowance				570			570
Department Total	4.5	4.4	\$ 389,529	\$ 175,229	4.4	\$ 399,958	\$ 182,586

Sewer Operations and Maintenance Capital

The Sewer Department operations and maintenance capital purchases for 2019 include a portion of the purchase of a slope mower. The total purchase is \$43,000 with 30% of the cost (\$13,000) funded by Sewer and 70% (\$30,000) by Surface Water. The Spider Slope Mower will assist the crew maintain easements and ponds throughout the city where there is a steep terrain.

Expenditure Detail - Supplies, Services, and Other

Supplies include miscellaneous operating supplies specific to sewer work and Metro Sewer charges. Services include engineering, surveying, utilities, rental of equipment, repair and maintenance charges, insurance, and credit card fees, among others. Intergovernmental includes excise tax and interfund utility tax paid to the general fund.

Sewer - Administration						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
402.01.535.800.31.00 Supplies -	\$ 14	\$ 1,956	\$ -	\$ -	\$ -	\$ -
402.01.535.800.31.01 Supplies - Office & Safety	2,283	2,025	1,988	2,000	3,000	3,000
402.01.535.800.31.02 Supplies - Operating	11,384	7,893	13,552	12,600	11,600	11,600
402.01.535.800.31.03 Supplies - Repairs & Maintenance	3,308	1,722	2,737	4,000	4,000	4,000
402.01.535.800.31.04 Supplies - Billing	2,106	2,509	1,748	3,000	3,000	3,000
402.01.535.800.33.00 Supplies - Metro Sewage Treatment	4,298,620	4,545,957	4,535,071	4,350,000	4,762,000	4,762,000
402.01.535.800.35.00 Supplies - Small Tools & Minor Equipment	2,983	1,435	668	2,500	2,500	2,500
402.01.535.800.35.01 Supplies - Traffic Control Devices	2,866	-	-	-	2,500	2,500
Total Supplies	4,323,565	4,563,497	4,555,763	4,374,100	4,788,600	4,788,600

Expenditure Detail - Supplies, Services, and Other, Continued

Sewer - Administration Continued						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
402.01.535.800.41.00 Prof Svcs - Consultant engineering services, surveying	68,386	3,909	620	1,000	1,000	1,000
402.01.535.800.41.01 Prof Svcs - Utility one call services for utility line locates	527	632	515	300	700	700
402.01.535.800.41.02 Prof Svcs - CDL licenses, hearing tests	272	51	349	300	300	300
402.01.535.800.41.04 Prof Svcs - TV Equipment Software	-	-	1,000	1,000	1,000	1,000
402.01.535.801.41.00 Prof Svcs - Project costs	271,976	108,642	-	-	-	-
402.01.535.800.42.00 Communication - Phone bills and Nextels	1,680	600	1,647	2,500	2,500	2,500
402.01.535.800.43.00 Travel - Mileage, meals, parking	687	2,076	1,004	2,000	2,000	2,000
402.01.535.800.44.00 Advertising - Advertising for seasonal help and staff replacement	-	-	150	150	150	150
402.01.535.800.45.00 Rental - Rental of backhoes, trackhoes, loader, and forklifts	(6)	13	593	2,000	2,000	2,000
402.01.535.800.45.94 Rental - Equipment Replacement Fund	52,487	29,783	52,195	52,195	56,292	74,230
402.01.535.800.45.95 Rental - Equipment Rental O & M	24,306	28,720	50,726	50,726	34,638	37,410
402.01.535.800.46.00 Insurance - WCIA	-	-	-	-	-	-
402.01.535.800.46.01 Insurance - WCIA	19,465	4,952	5,470	5,446	10,968	12,667
402.01.535.800.47.00 Public Utility - Electrical, gas, water, and sewer from lift stations	1,111	150	1,000	1,000	1,000	1,000
402.01.535.800.47.02 Public Utility - Waste Materials Disposal	-	-	4,000	4,000	3,000	3,000
402.01.535.800.47.21 Public Utility - Electric	17,025	18,093	18,257	16,000	20,000	21,000
402.01.535.800.47.25 Public Utility - Water and Sewer	16,814	16,755	17,221	17,000	19,000	20,000
402.01.535.800.48.00 R&M - Pump station repairs and replacement done by outside vendors	45,216	31,776	14,068	24,000	24,000	24,000
402.01.535.800.48.01 R&M - Painting of sewer pump station interiors	-	-	7,500	12,500	12,500	12,500
402.01.535.800.48.03 R&M - Repairs of sewer main lines	153	-	-	2,500	2,500	2,500
402.01.535.800.48.04 R&M - Sewer pump station computer alarm system	1,881	3,120	7,559	10,000	10,000	10,000
402.01.535.801.44.00 Advertising	-	858	-	-	-	-
402.01.535.801.48.00 R&M - Equipment	906,022	391,714	-	-	-	-
402.01.535.800.49.00 Misc - Training, classes, minor software purchases	2,089	1,763	4,125	5,000	5,000	5,000
402.01.535.800.49.08 Misc - PPI credit card fees	54,030	61,088	58,053	50,000	70,000	70,000
Total Services	1,484,120	704,694	246,052	259,617	278,548	302,957
402.01.535.800.53.00 Ext Taxes & Operating Assmnts	137,700	136,301	140,401	135,000	135,000	135,000
402.01.535.800.54.02 Interfund Taxes - Interfund Utility Tax	919,774	971,689	963,389	867,000	978,700	978,700
Total Intergovernmental	1,057,474	1,107,991	1,103,790	1,002,000	1,113,700	1,113,700
Total Supplies, Services and Other	\$ 6,865,158	\$ 6,376,182	\$ 5,905,604	\$ 5,635,717	\$ 6,180,848	\$ 6,205,257

Services include construction management for capital projects. Capital includes capital projects related to the sewer fund.

Sewer - Capital Outlays						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
402.98.594.353.31.00 Supplies -Office and Operating	\$ -	\$ -	\$ 1,990	\$ -	\$ -	\$ -
Total Supplies	-	-	1,990	-	-	-
402.98.594.353.41.00 Prof Svcs - Construction management	170,175	209,757	213,529	265,000	533,000	400,000
402.98.594.353.44.00 Advertising - Bid ads	-	--	151	-	-	-
Total Services	171,515	209,777	213,680	265,000	533,000	400,000
402.01.594.350.64.00 Capital - Machinery & Equipment	-	6,364	-	-	13,000	-
402.98.594.353.64.00 Capital - Machinery & Equipment	-	-	5,194	-	-	-
402.98.594.353.65.00 Capital - Construction Projects	479,411	1,206,013	1,307,349	1,300,000	2,423,000	1,500,000
Total Other	479,411	1,212,377	1,312,542	1,300,000	2,436,000	1,500,000
Total Capital Outlay	\$ 650,926	\$ 1,422,154	\$ 1,528,213	\$ 1,565,000	\$ 2,969,000	\$ 1,900,000

City of Tukwila
CAPITAL IMPROVEMENT PROGRAM
 for
 2017 - 2022

SEWER ENTERPRISE FUND
402.98

CIP Page #	PROJECT TITLE	2019	2020	2021	2022	2023	2024	TOTAL	*Other Sources	After Six Years
76	Annual Sewer Repair Program	369	210	200	200	200	200	1,379	0	200
77	CBD Sanitary Sewer Rehabilitation	1,265	1,265	665	0	0	0	3,195	0	0
78	Fort Dent Park BNSF Sewer Relocation	972	0	0	0	0	0	972	0	0
79	Sewer Repair West of Strander Blvd Bridge	160	0	0	0	0	0	160	0	0
80	Sewer Comprehensive Plan	140	140	0	0	0	0	280	0	0
81	GIS Inventory of Sewer System	50	25	0	0	0	0	75	0	500
82	Southcenter Blvd Sewer Upgrade	0	0	180	0	0	0	180	0	1,647
83	Sewer Lift Stations & Generator Upgrades	0	0	100	460	460	810	1,830	0	960
84	Sewer Lift Station No. 2 Upgrades	0	260	710	0	0	0	970	0	7,100
85	Sewer Replacement at 14025 Interurban Ave	0	0	0	75	0	0	75	0	865
86	Future Sewer Lift Station No. 13	0	0	0	0	278	0	278	0	2,520
	Valley View West Hill Sewer Transfer Area	0	0	0	0	0	0	0	0	0
	Abandon Sewer Lift Station No. 9	0	0	0	0	0	0	0	0	1,120
	Sewer Lift Station No. 12	0	0	0	0	0	0	0	0	4,400
	APW Sewer connection to KC Metro	0	0	0	0	0	0	0	0	300
	Sewer Repair at 14438 59th Ave S	0	0	0	0	0	0	0	0	550
	Allentown Phase III - Sewer Revitalization	0	0	0	0	0	0	0	0	1,440
	Ryan Hill - Sewer Revitalization	0	0	0	0	0	0	0	0	1,900
Grand Total		2,956	1,900	1,855	735	938	1,010	9,394	0	23,502

** Denotes other funding sources, grants, or mitigation.

Changes from 2017 to 2019 CIP:

Deleted

Andover Park East Sewer Replacement, completed in 2018.

53rd Ave S Sewer Rehabilitation, sewer completed in 2018.

Project sheets scheduled beyond 2024
 can be found in the City's website under
 Public Works Capital Improvement Program.

Sewer Lift Station Locations

Lift Station No. 1 - Master Telemetry Panel	600 Minkler Blvd. - Shops
Lift Station No. 2 - Backup Dialer	1105 Andover Pk W (at Minkler Blvd)
Lift Station No. 3	550 Minkler Blvd
Lift Station No. 4	6790 Todd Blvd - Southcenter South
Lift Station No. 5	6830 Fort Dent Way (entrance to Park)
Lift Station No. 6	6820 Fort Dent Way (only serves Park)
Lift Station No. 7 - Abandoned in 2011	was at 14601 Interurban - replaced by gravity sewer
Lift Station No. 8	13359 56th Ave S - Foster Point (new in 2007)
Lift Station No. 9	12638 Interurban - Suburban Propane
Lift Station No. 10	12218 51st Pl S - Allentown (new in 2007)
Lift Station No. 11	18799 Southcenter Pkwy (new in 2012)
Lift Station No. 12	255 Andover Park W - Key Bank parking lot at mall
Lift Station No. 13	Future - Tukwila Pkwy & Andover Park W

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Annual Sewer Repair Program

Project No. Varies

DESCRIPTION: Reduce sewer line infiltration and inflow (I & I) through groundwater intrusion or storm events as a result of damaged deteriorating systems or illicit connections. Include small repairs and capital maintenance.

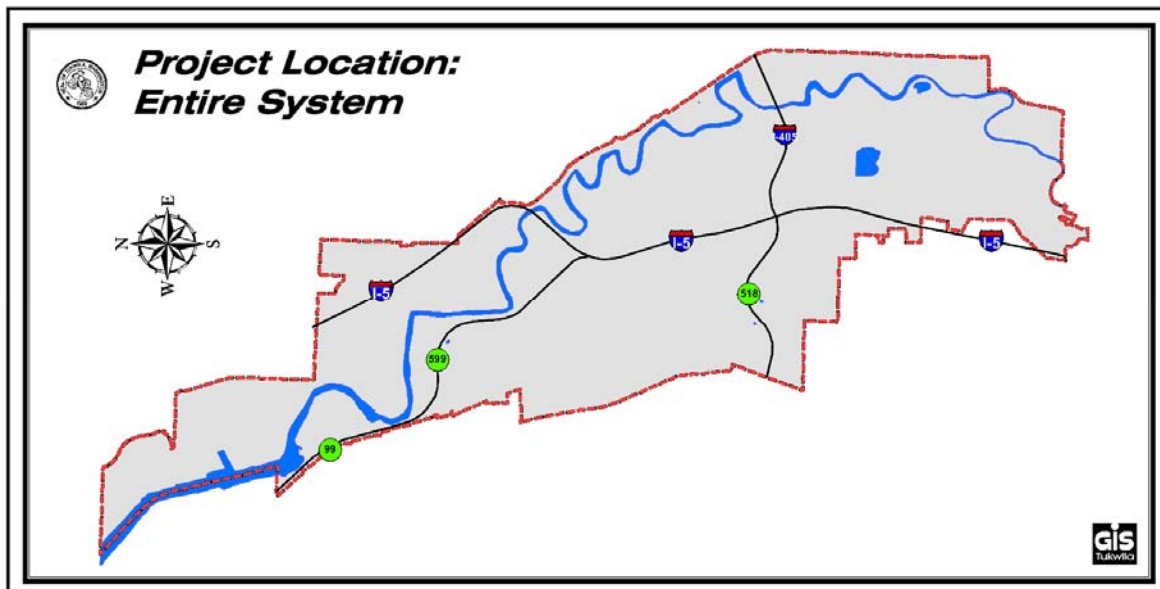
JUSTIFICATION: Decrease treatment, discharge, and pumping costs.

STATUS: Annual program is determined after pipeline TV inspection reports are completed.

MAINT. IMPACT: Less maintenance costs through rehabilitation of aging system.

COMMENT: Ongoing project, only one year actuals shown in first column.

FINANCIAL (in \$000's)	Through Estimated		2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
	2017	2018								
EXPENSES										
Design	3	15	10	10						38
Land (R/W)										0
Const. Mgmt.										0
Construction	0		359	200	200	200	200	200	200	1,559
TOTAL EXPENSES	3	15	369	210	200	200	200	200	200	1,597
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	3	15	369	210	200	200	200	200	200	1,597
TOTAL SOURCES	3	15	369	210	200	200	200	200	200	1,597



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: CBD Sanitary Sewer Rehabilitation

Project No. 91140203

DESCRIPTION: The asbestos concrete pipe in the CBD (commercial business district) is approximately 45 years old and becoming soft. Slip lining the pipe will reinforce the strength with little impact to roadways and minimal excavation.

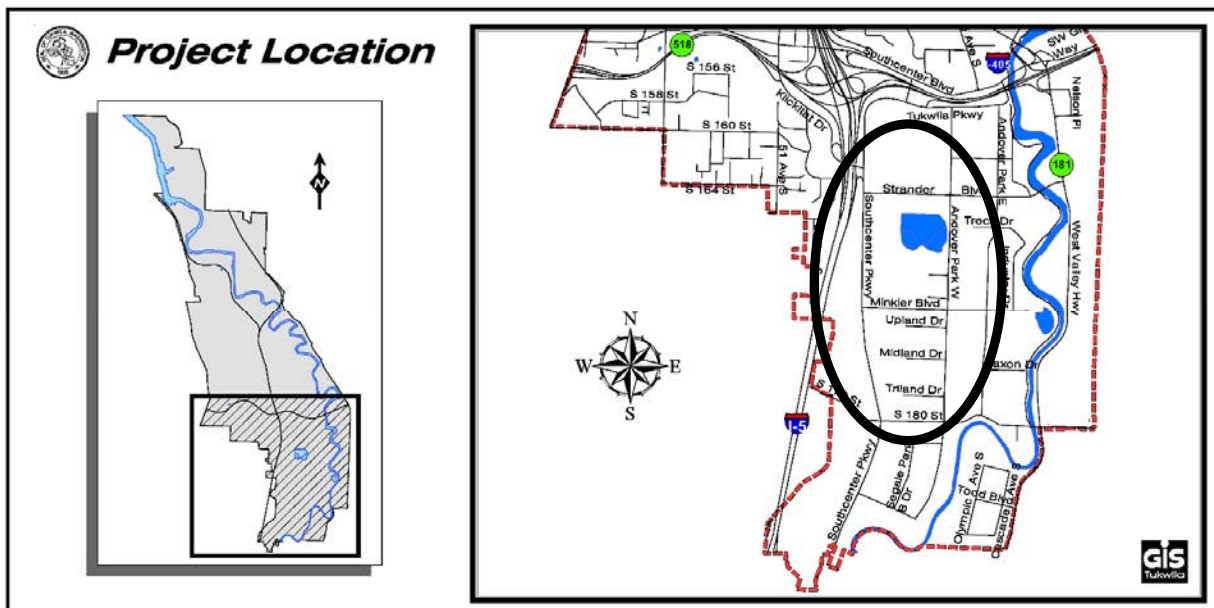
JUSTIFICATION: If the pipe collapses, the street will have to be excavated and the cost of the repairs will be significant. In the last five years we have had four major pipe failures on Andover Park West and Andover Park East.

STATUS: In 2014 and 2015, over 10,500 feet of asbestos sanitary sewer pipe were relined. In 2016 through 2018, 20,000 feet of asbestos sewer is scheduled to be relined.

MAINT. IMPACT: Reduced maintenance and repair costs.

COMMENT: A Public Works Trust Fund loan was successfully obtained in 2012 for \$750k.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	394	50	45	45	40					574
Land (R/W)	1									1
Const. Mgmt.	310	85	120	120	75					710
Construction	1,983	539	1,100	1,100	550					5,272
TOTAL EXPENSES	2,688	674	1,265	1,265	665	0	0	0	0	6,557
FUND SOURCES										
Awarded Grant										0
PW Trust Fund	750									750
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	1,938	674	1,265	1,265	665	0	0	0	0	5,807
TOTAL SOURCES	2,688	674	1,265	1,265	665	0	0	0	0	6,557



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Fort Dent Park BNSF Sewer Relocation

Project No. 91530101

DESCRIPTION: The installation of 510 fee of sewer force main under the BNSF railroad tracks.

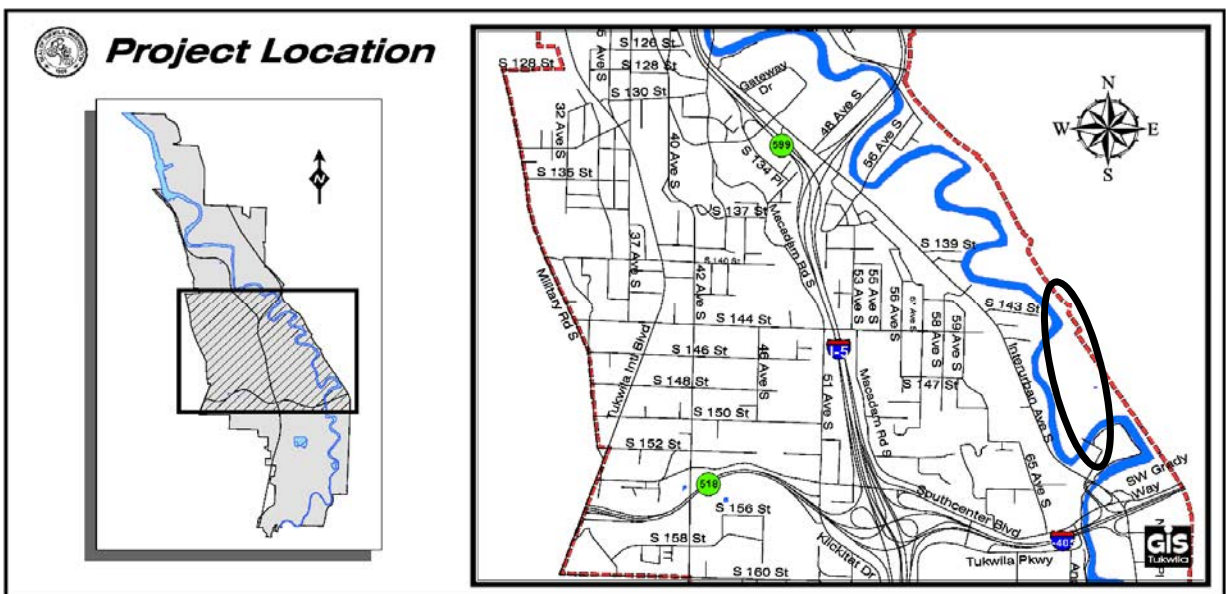
JUSTIFICATION: The BNSF Railroad is constructing a third set of tracks and is requiring that the City relocate the sewer force main under the railroad tracks.

STATUS: Funding is required for the sewer relocation that was installed in 1975.

MAINT. IMPACT: Normal maintenance once relocated.

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design	169	15									184
Land (R/W)											0
Const. Mgmt.			128								128
Construction			844								844
TOTAL EXPENSES	169	15	972	0	0	0	0	0	0	0	1,156
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	169	15	972	0	0	0	0	0	0	0	1,156
TOTAL SOURCES	169	15	972	0	0	0	0	0	0	0	1,156



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Sewer Repair West of Strander Blvd Bridge

Project No. 90840203

DESCRIPTION: Repair cracked and sunken sewer line west of Strander Blvd bridge.

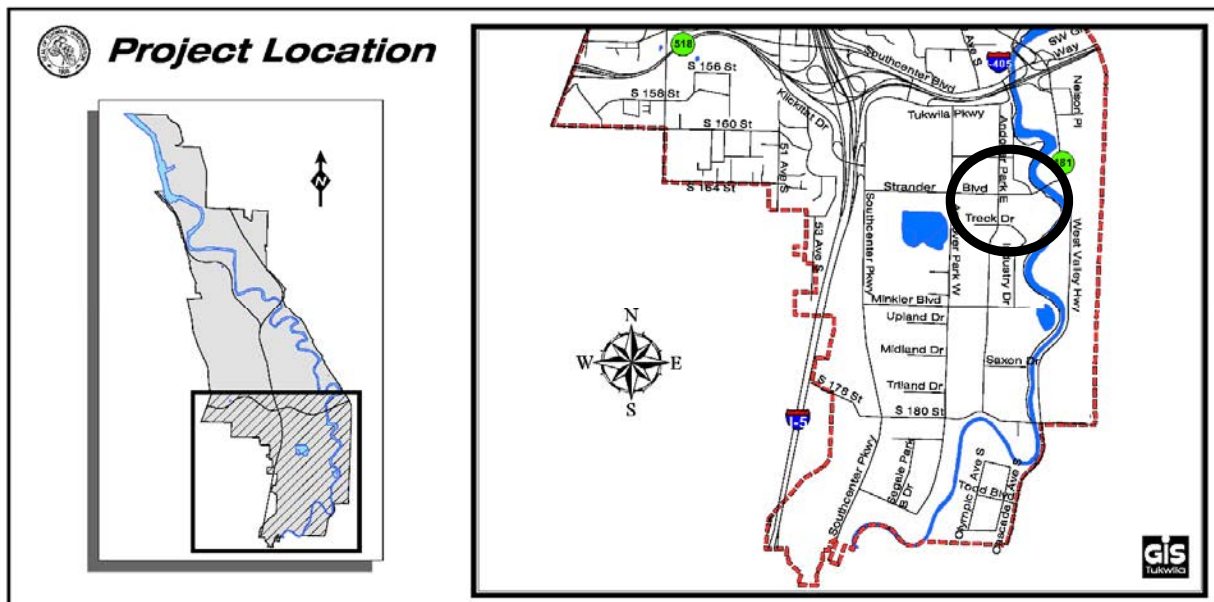
JUSTIFICATION: If the sewer line collapses, the sewer will back up, causing property damage. Relining other mains in the area can not be done until this repair is completed.

STATUS: Line was damaged during installation of storm drain in 2004.

MAINT. IMPACT:

COMMENT: Project will require dewatering due to the depth of 25 ft., soils, and the proximity to the Green River.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design	2		20								22
Land (R/W)											0
Const. Mgmt.			20								20
Construction			120								120
TOTAL EXPENSES	2	0	160	0	0	0	0	0	0	0	162
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	2	0	160	0	0	0	0	0	0	0	162
TOTAL SOURCES	2	0	160	0	0	0	0	0	0	0	162



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Sewer Comprehensive Plan

Project No. 91040202

DESCRIPTION: Prepare new Sewer Comprehensive Plan incorporating any new or regulatory Growth Management Act Comprehensive Plan issues related to sewer.

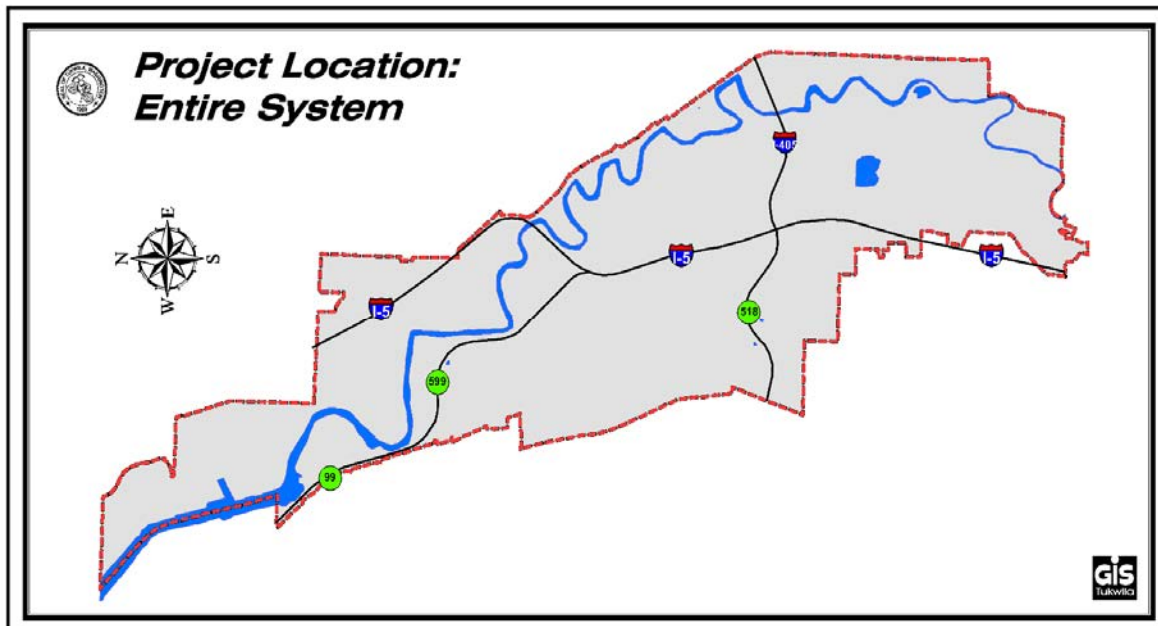
JUSTIFICATION: Sewer Comprehensive Plan needs to be consistent with City Comprehensive Plan, Department of Ecology and Department of Health. Update is required every 6 years.

STATUS: 2013 Sewer update was adopted by Council on 6/2/14. Next update is scheduled for 2021.

MAINT. IMPACT:

COMMENT:

FINANCIAL (in \$000's)	Through Estimated									TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design	158		140	140						438
Land (R/W)										0
Const. Mgmt.										0
Construction										0
TOTAL EXPENSES	158	0	140	140	0	0	0	0	0	438
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	158	0	140	140	0	0	0	0	0	438
TOTAL SOURCES	158	0	140	140	0	0	0	0	0	438



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: GIS Inventory of Sewer System

Project No. 80540202

DESCRIPTION: GIS (Geographic Information Systems) provides current as-built data for the sanitary sewer system in the Central Business District. This project will expand the as-built database for Tukwila's entire sewer system.

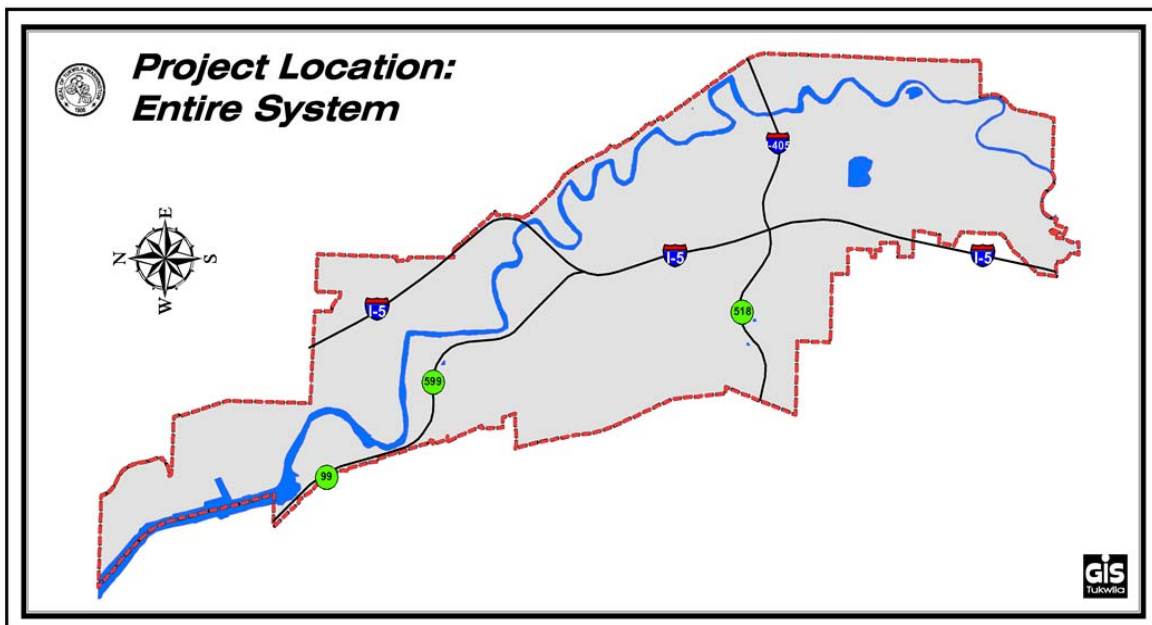
JUSTIFICATION: GIS mapping of the sewers will provide information that is easily addressable by City staff and the public. With the GIS data, the City will be able to develop an asset management plan to determine the sewer assets that need to be upgraded or replaced.

STATUS: In 2007, the Commercial Business District (CBD) was surveyed for GIS mapping. Full data collection should be completed by 2019. Combined Asset Management System in 2017.

MAINT. IMPACT: The survey will provide staff with up-to-date information on the location of manholes for the sanitary sewers.

COMMENT:

FINANCIAL (in \$000's)	Through Estimated									
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	169	75	50	25					500	819
Land (R/W)										0
Const. Mgmt.										0
Construction										0
TOTAL EXPENSES	169	75	50	25	0	0	0	0	500	819
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	169	75	50	25	0	0	0	0	500	819
TOTAL SOURCES	169	75	50	25	0	0	0	0	500	819



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Southcenter Blvd Sewer Upgrade

Project No. 99840202

DESCRIPTION: Upgrade 3,200 LF of 8" to a larger capacity 12" system from Macadam Rd to the I-405 undercrossing on Southcenter Blvd.

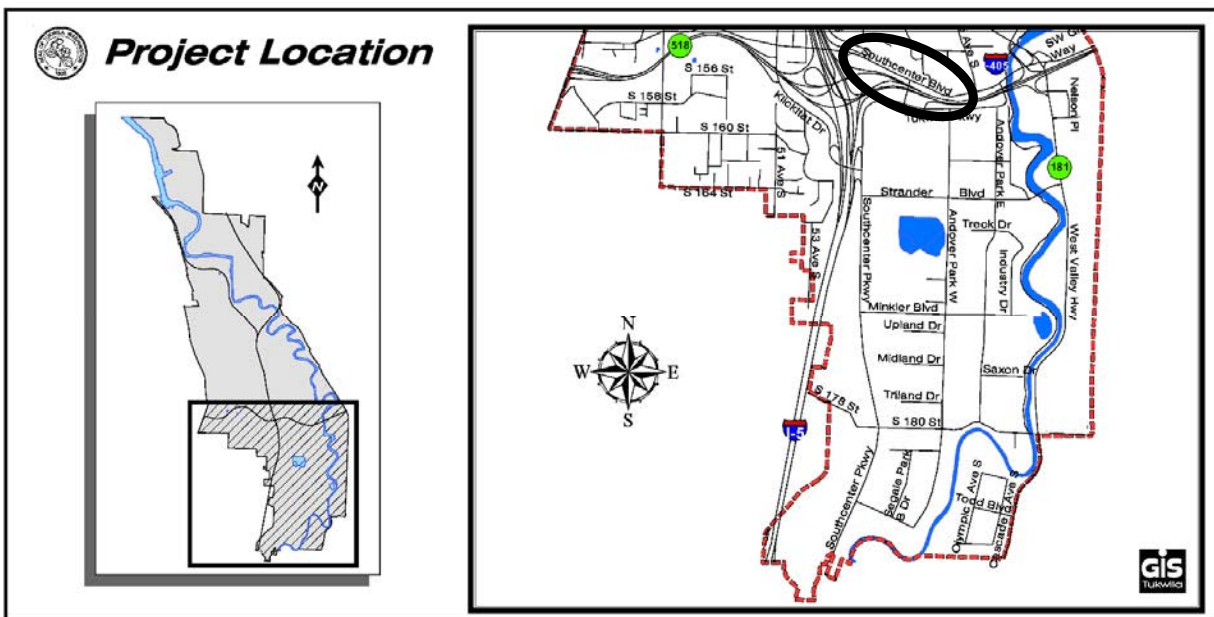
JUSTIFICATION: Flows have greatly increased with additional connections to the basin from the North Hill apartment buildings causing the system to be deficient in terms of capacity for peak discharges.

STATUS:

MAINT. IMPACT: Improved service would reduce maintenance liability.

COMMENT: Coordinate with I-405 improvements to Southcenter Blvd and Future Lift Station No. 13.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design					180						180
Land (R/W)											0
Const. Mgmt.										207	207
Construction										1,440	1,440
TOTAL EXPENSES	0	0	0	0	180	0	0	0	0	1,647	1,827
FUND SOURCES											
Awarded Grant											0
Bond/PWTF Loan										1,380	1,380
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	0	0	0	0	180	0	0	0	0	267	447
TOTAL SOURCES	0	0	0	0	180	0	0	0	0	1,647	1,827



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Sewer Lift Stations & Generator Upgrades

Project No. 90440206

DESCRIPTION: This funding will be used to replace/upgrade the seven sewer lift stations and backup generators in phases.

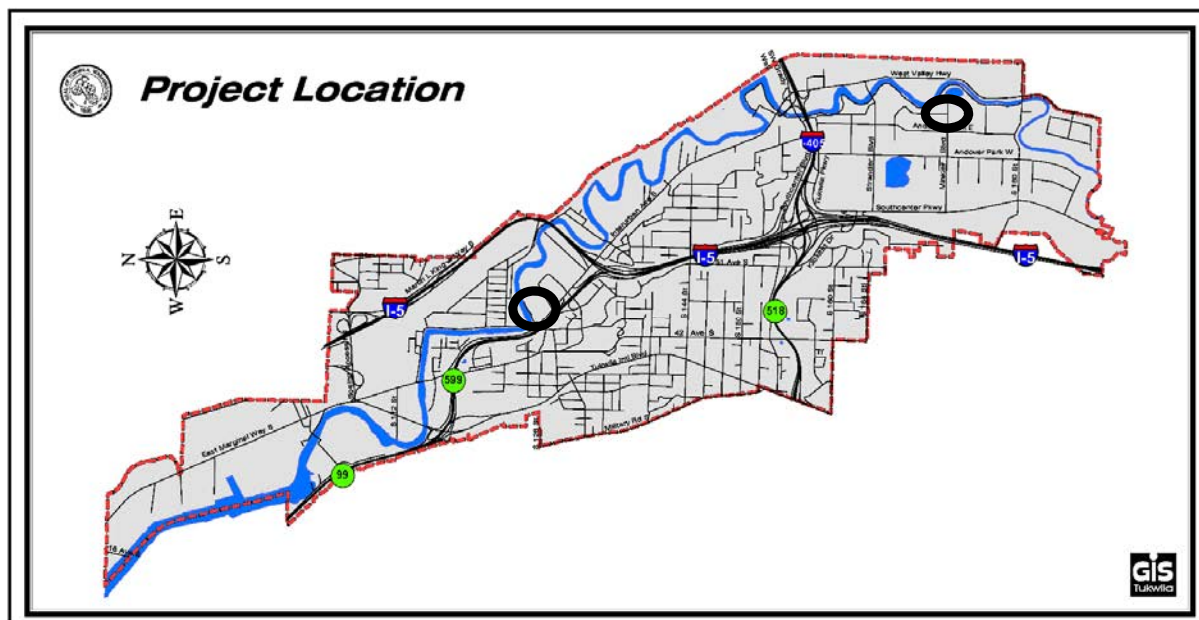
JUSTIFICATION: Aging system requires the replacement of motors, pumps, and controls at older lift stations to reduce maintenance. Generators have a lifespan of 15 years and need to be replaced more frequently than pumps.

STATUS: Sewer Lift Stations No. 3 & 4 are at the end of their life cycles and need to be rebuilt with backup generators and are scheduled for 2021/22. Lift Station No. 5 is in beyond.

MAINT. IMPACT: New pumps will reduce the liability of the existing pumps that are obsolete and prone to fail.

COMMENT: Additional right-of-way or property will be required for the new backup generators to be installed.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design					100					150	250
Generators						10	10	10	10	10	40
Const. Mgmt.						50	50	100	100	100	300
Construction						400	400	700	700	700	2,200
TOTAL EXPENSES	0	0	0	0	100	460	460	810	960	960	2,790
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	0	0	0	0	100	460	460	810	960	960	2,790
TOTAL SOURCES	0	0	0	0	100	460	460	810	960	960	2,790



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Sewer Lift Station No. 2 Upgrades

Project No. 90440205

DESCRIPTION: Install new pumps, motors, control system, backup generator and 2,700 LF of force main from Minkler Blvd. to Strander Blvd.

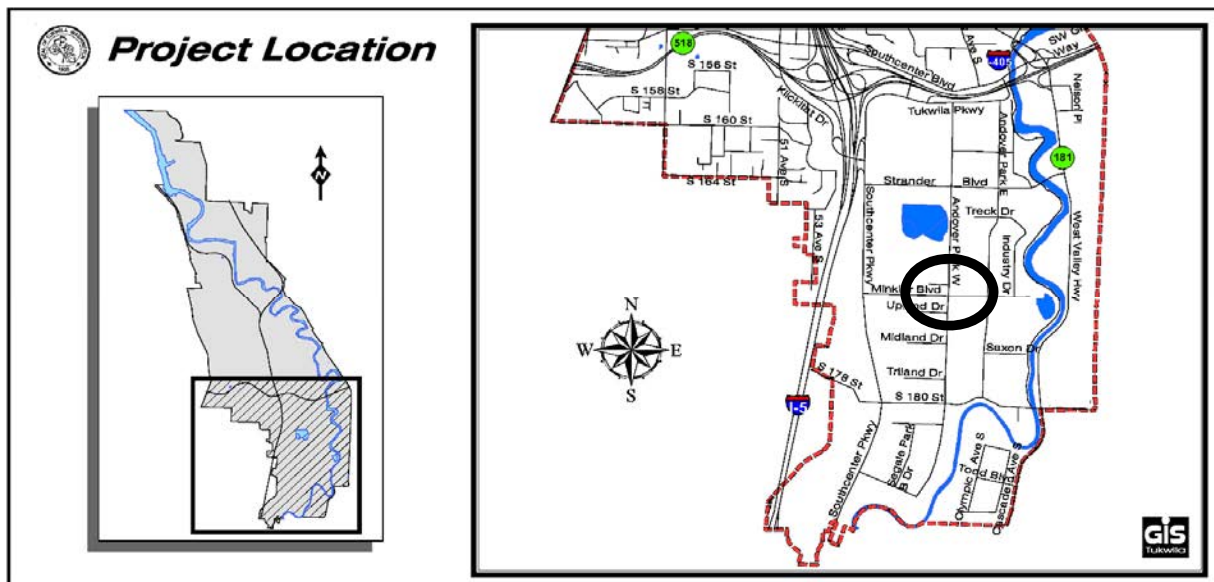
JUSTIFICATION: The lift station upgrade will be required upon full development of Tukwila South.

STATUS: Generator replacement, concrete slab, and replacement of pump's motor control system are scheduled in 2020.

MAINT. IMPACT: Reduce liability if the existing slab breaks the power connection.

COMMENT: See Tukwila South development agreement for funding and ULID requirements.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design	97	16								100	213
Land (R/W)											0
Const. Mgmt.				60	60					1,000	1,120
Construction	35			200	650					6,000	6,885
TOTAL EXPENSES	132	16	0	260	710	0	0	0	0	7,100	8,218
FUND SOURCES											
Awarded Grant											0
Proposed Bond/ULID										7,100	7,100
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	132	16	0	260	710	0	0	0	0	0	1,118
TOTAL SOURCES	132	16	0	260	710	0	0	0	0	7,100	8,218



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Sewer Replacement at 14025 Interurban Ave S

Project No. 90540209

DESCRIPTION: Replace 1,500 LF of 8" sewer line with a 12" line at 14025 Interurban Ave S from the Golden Nugget to the Foster Green Apartments.

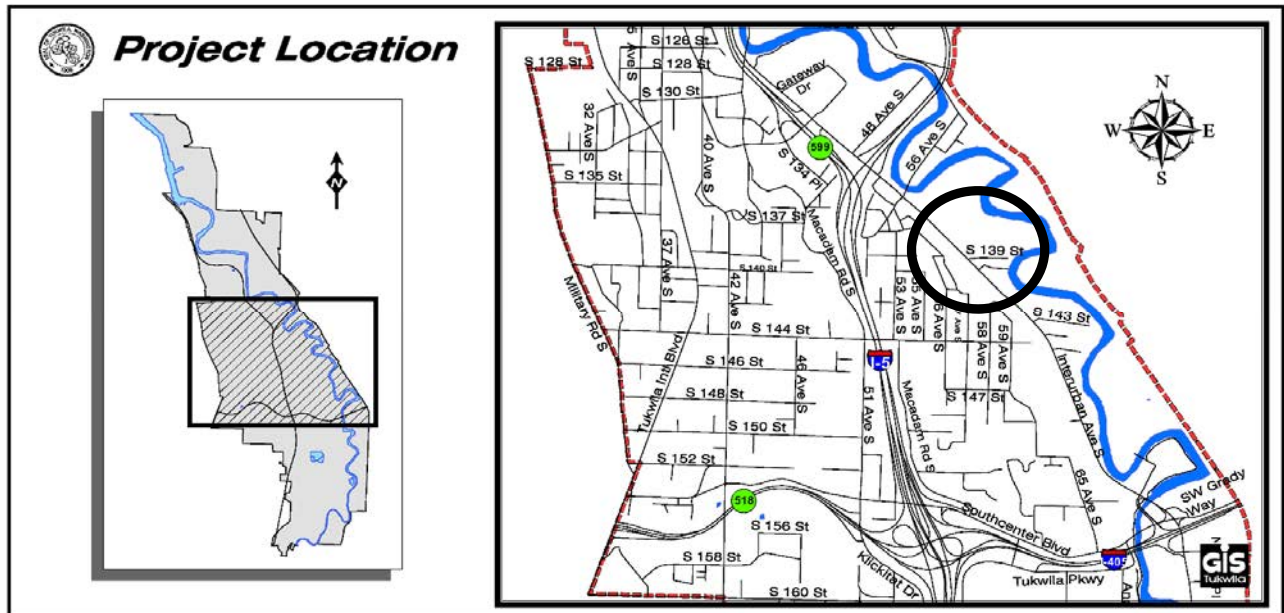
JUSTIFICATION: The existing main has sags and is undersized.

STATUS:

MAINT. IMPACT: Reduced maintenance costs.

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design						75					75
Land (R/W)											0
Const. Mgmt.										115	115
Construction										750	750
TOTAL EXPENSES	0	0	0	0	0	75	0	0	0	865	940
FUND SOURCES											
Awarded Grant											0
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	0	0	0	0	0	75	0	0	865	940	
TOTAL SOURCES	0	0	0	0	0	75	0	0	865	940	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Future Sewer Lift Station No. 13** Project No. 99740205

DESCRIPTION: Due to utility conflicts with existing utilities, a new sewer lift station will be required near 65th Ave S and Southcenter Blvd. A gravity sewer main is not possible under I-405.

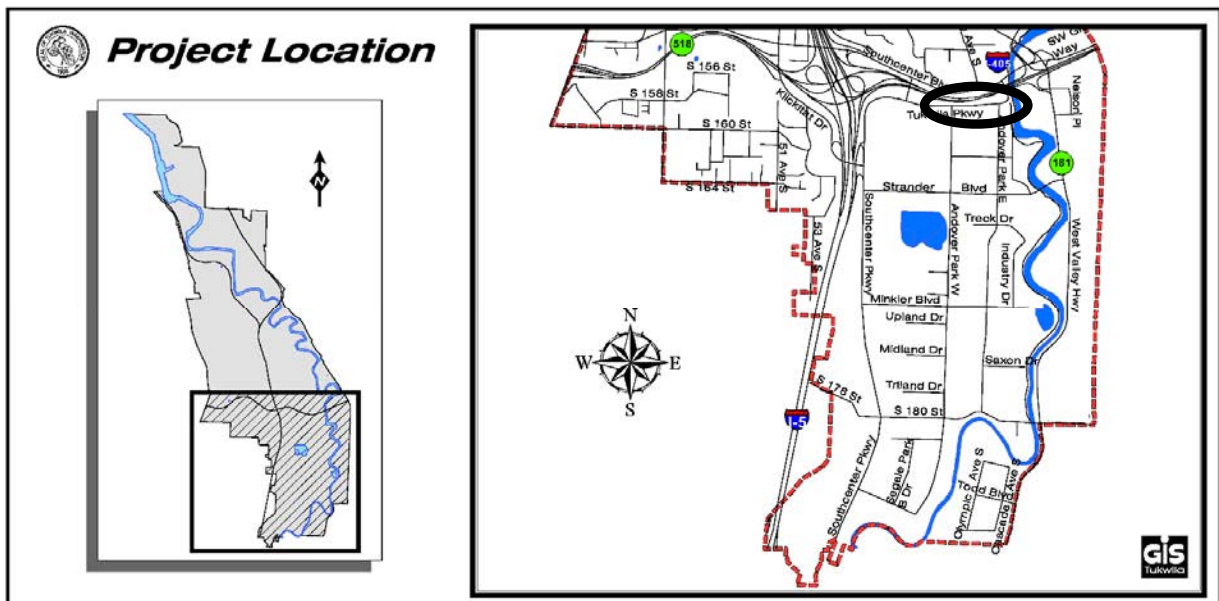
JUSTIFICATION: Existing line is undersized and has a severe sag. Increased development on the North Hill exacerbates the deficiency.

STATUS: Design will be coordinated with WSDOT and Seattle Public Utilities.

MAINT. IMPACT: Less flushing maintenance to clear debris from sag and from the improved HOV manhole alignment.

COMMENT: Other alternatives are being reviewed due to WSDOT requirements. Formerly known as Gravity Sewer under I-405 to Tukwila Parkway.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design	77							278			355
Land (R/W)											0
Const. Mgmt.										320	320
Construction										2,200	2,200
TOTAL EXPENSES	77	0	0	0	0	0	0	278	0	2,520	2,875
FUND SOURCES											
Awarded Grant											0
Bond											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	77	0	0	0	0	0	0	278	0	2,520	2,875
TOTAL SOURCES	77	0	0	0	0	0	0	278	0	2,520	2,875



ATTACHMENT F
City of Tukwila
SURFACE WATER ENTERPRISE FUND
2019 - 2024 Analysis in 000's

REVENUES	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Total
	+20%	+15%	+5%	+3%		+5%	+3%	+5%	+3%	+5%	+3%	
Annual Billings (Current) ⁽¹⁾	5,086	5,851	6,148	6,300	6,347	6,663	6,863	7,206	7,422	7,793	8,027	43,974
Other Revenues	28	298	157	30	50	40	50	50	60	65	70	335
Grants/Bond Proceeds ⁽²⁾	789	147	194	2,656	150	2,367	1,077	3,277	6,148	188	129	13,186
Total Revenues	5,903	6,296	6,499	8,986	6,547	9,070	7,990	10,533	13,630	8,046	8,226	57,495
EXPENDITURES												
Operations & Maintenance	1,909	1,996	2,033	2,139	2,139	2,414	2,330	2,360	2,454	2,552	2,654	14,764
Debt Service ⁽³⁾	316	305	303	303	303	301	300	298	285	283	282	2,031
<i>Debt Service for PW Shops</i>				116	703	220	251	560	560	560	560	2,711
Interfund Utility Tax ⁽⁴⁾ 10%	510	587	617	636	640	670	691	726	748	786	810	4,431
Engineering Labor ⁽⁶⁾	344	217	208	573	310	590	607	621	640	659	679	3,796
Subtotal	3,079	3,105	3,161	3,767	4,095	4,195	4,179	4,565	4,687	4,840	4,985	27,451
SSWM Capital - CIP Program	2,662	2,117	3,098	4,963	4,406	4,400	2,751	5,504	7,639	2,151	2,202	24,647
Total Expenditures	5,741	5,222	6,259	8,730	8,501	8,595	6,930	10,069	12,326	6,991	7,187	52,098
FUND BALANCE												
Change in Fund Balance ^(a)	162	1,074	240	256	(1,954)	475	1,060	464	1,304	1,055	1,039	5,397
Beginning Balance	2,063	1,252	2,603	2,603	2,999	1,045	1,520	2,580	3,044	4,348	5,403	1,045
Ending Balance	2,225	2,326	2,843	2,859	1,045	1,520	2,580	3,044	4,348	5,403	6,442	6,442

Fund Balance:	2015 Actual	2016 Actual	2017 Actual	2018 Budget	2018 Estimate	2019	2020	2021	2022	2023	2024	Total
Reserved ^(b) 20% of revenue	834	1,230	1,261	1,266	1,230	1,230	1,341	1,383	1,451	1,496	1,572	1,572
Unreserved	1,391	1,096	1,582	1,593	(185)	290	1,239	1,662	2,897	3,907	4,871	4,871
Ending Balance	2,225	2,326	2,843	2,859	1,045	1,520	2,580	3,044	4,348	5,403	6,442	6,442

^(a) Revenues in excess of (less than) expenditures

^(b) Annual reserve balance requirement equals 20% of the prior year operating revenues.

ATTACHMENT F-1

NOTES TO SURFACE WATER ENTERPRISE FUND

- 1) Reflects proposed rate increases of 5% in 2019, 3% in 2020, and 5% and 3% in 2021 through 2024. We will continue with the annual rate model review to confirm that the proposed Surface Water rate increases are necessary.

The National Pollution Discharge Elimination System (NPDES) permit required by the State Department of Ecology is having a significant impact on the Surface Water fund.

- 2) Potential grants and/or bond revenue. Included is the estimated Department of Ecology grant for NPDES and King County Flood Control District Opportunity grants as well as significant grant funding for the Chinook Wind Project.
- 3) Debt schedule includes PWTF loans and the 2006 Allentown Bond.

Debt Service includes:	<u>Expires</u>	<u>2019</u>	<u>2020</u>
2004 PWTF Duwamish (15%)	7/01/21	11,770.55	11,712.56
2004 PWTF Cascade View Const.	7/01/24	228,808.47	227,697.75
2004 PWTF Allentown (12%)	7/01/24	38,328.11	38,142.05
2006 Bond Allentown (12%)	12/31/26	21,752.10	22,034.19
2018 Public Works Shops (23%)	12/31/38	<u>219,831.00</u>	<u>250,675.00</u>
	Total	<u>\$520,490.23</u>	<u>\$550,261.55</u>

- 4) An Interfund Utility Tax was approved in October 2009 for the water, sewer, and surface water utilities. Gross revenues are currently taxed 10% through December 31, 2021.
- 5) The Working Capital Reserve Fund's policy was updated in 2012 per Resolution No. 1774 to maintain an adequate fund balance in each of the enterprise funds. For the Enterprise Funds, the unrestricted fund balance shall equal or exceed 20% of the previous year's revenue, exclusive of significant non-operating, non-recurring revenues.
- 6) Cost of engineering to support capital projects, NPDES, and operation efforts in-house.

Surface Water Enterprise Fund

The City's Enterprise Funds account for utility operations that are self-supported through user charges. The utilities are financed and operated like a private business enterprise which requires periodic determination of revenues earned; expenses incurred, and net income for capital maintenance, public policy, management control and accountability. The Surface Water Enterprise Fund accounts for operations and capital improvements for the City's storm drainage and surface water management function. Surface Water projects are required to meet Federal, State and local mandates. The largest contributor to the surface water enterprise fund is the City of Tukwila.

DEPARTMENT: Public Works
FUND: Surface Water
RESPONSIBLE MANAGER: Henry Hash

FUND NUMBER: 412
POSITION: Director

Description

The surface water program provides for engineering studies, preliminary engineering, construction, and maintenance of public surface water and drainage facilities to include control and monitoring of storm and surface water quantity and quality. The Green River Basin management agreement and the Green River levees are also included in this program. The costs of operating and maintaining the system are included with the capital projects necessary for system improvements.

2017-2018 Accomplishments

- ◆ Completed Small Drainage Project identified on the approved list for 2017 & 2018.
- ◆ Continued development of the GIS as-builts of city infrastructure that complies with NPDES.
- ◆ Completed construction of Gilliam Creek 42nd Ave S culvert (with 42nd Ave S street improvements).
- ◆ Completed construction 53rd Ave S surface water drainage.

2019-2020 Outcome Goals

- ◆ Improve surface water system efficiency. **Strategic Goal 1. Utility Comp Plan Goal 12.1**
- ◆ Improve surface water system reliability. **Strategic Goal 1. Utility Comp Plan Goal 12.1**
- ◆ Improve surface water system capacity. **Strategic Goal 1. Utility Comp Plan Goal 12.1**

2019-2020 Indicators of Success

- ◆ Complete small drainage projects identified on the approved list for 2017 and 2018.
- ◆ Begin design and construction of Chinook Wind.
- ◆ Construct East Marginal Way S storm water outfalls.
- ◆ Construct Riverton Creek Flap Gate Removal
- ◆ Continue development of Tukwila 205 Levee Certification.
- ◆ Continue development of the GIS as-builts of city infrastructure that complies with NPDES.

Performance Measures

Public Works - Surface Water	Actual			Projected	
	2016	2017	2018	2019	2020
Maintain & Improve Surface Water System					
Number of linear feet TV inspected	10,000	10,000	10,000	10,000	10,000
Number of linear feet of storm lines cleaned	12,000	12,000	12,000	12,000	12,000
Number of linear feet of ditches cleaned	2,000	2,000	2,000	2,000	2,000
Number of manholes/catch basins/or stormceptors cleaned	1,500	1,500	1,500	1,500	1,500
Number of times cleaned four water quality ponds	Once/yr	Once/yr	Once/yr	Once/yr	Once/yr
Number of times cleaned large pot type water quality vaults	Once/yr	Once/yr	Once/yr	Once/yr	Once/yr
Number of times clean 10 large trash racks	250	250	250	250	250
Capital					
Hours of 5 storm lift stations monitoring of pump hours, start counts, and generator operation (weekly)	5	5	5	5	5
NPDES (National Pollutant Discharge					
Number of illicit discharge events	13	13	13	13	13
Number vehicles washed using the SudsSafe Car Wash	50	50	50	50	50
Customers					
Number of surface water customers	5,260	5,270	5,275	5,260	5,270
Number of total drainage system miles	71.00	71.00	71.00	71.00	71.00

Revenue and Expense Summary

Surface Water Fund								
	Actual			Budget			Percent Change	
	2016	2017	Projected 2018	2018	2019	2020	2018-19	2019-20
Operating Revenue								
Charges for Services								
Surface Water Sales	\$ 5,850,799	\$ 6,147,930	\$ 6,326,899	\$ 6,306,000	\$ 6,663,000	\$ 6,863,000	5.66%	3.00%
Total Charges for Services	5,850,799	6,147,930	6,326,899	6,306,000	6,663,000	6,863,000	5.66%	3.00%
Intergovernmental Revenue	89,822	8,435	63,000	63,000	120,000	277,000	90.48%	130.83%
Miscellaneous Revenue								
Investment Earnings	29,101	52,938	53,285	24,000	40,000	50,000	66.67%	25.00%
Capital contributions	273,792	104,998	-	-	-	-	0.00%	0.00%
Sale of Capital Assets	(4,798)	(440)	-	-	-	-	0.00%	0.00%
Other Misc Revenue	240	160	-	-	-	-	0.00%	0.00%
Total Miscellaneous Revenue	298,335	157,657	53,285	24,000	40,000	50,000	66.67%	25.00%
Total Operating Revenue	6,238,957	6,314,022	6,443,185	6,393,000	6,823,000	7,190,000	6.73%	5.38%
Capital Project Revenue								
Intergovernmental Revenue - Grants	56,969	185,380	2,593,000	2,593,000	2,247,000	800,000	-13.34%	-64.40%
Total Revenue	6,295,926	6,499,402	9,036,185	8,986,000	9,070,000	7,990,000	0.93%	-11.91%
Operating Expenses								
Salaries & Wages	886,206	901,728	762,122	1,045,012	1,089,529	1,115,653	4.26%	2.40%
Personnel Benefits	370,125	251,945	375,492	494,934	482,172	496,998	-2.58%	3.07%
Supplies	45,694	43,356	50,625	43,500	42,500	42,500	-2.30%	0.00%
Services	691,372	711,193	761,438	549,694	761,013	662,881	38.44%	-12.89%
Intergovt Services & Taxes	655,744	688,572	699,077	686,000	720,300	741,300	5.00%	2.92%
Total Operating Expenses	2,649,140	2,596,794	2,648,753	2,819,140	3,095,515	3,059,331	9.80%	-1.17%
Capital Expenses								
Salaries & Wages	85,567	31,116	226,658	-	-	-	0.00%	0.00%
Personnel Benefits	34,766	12,425	56,613	-	-	-	0.00%	0.00%
Supplies	1,374	-	52,667	50,000	50,000	50,000	0.00%	0.00%
Services	377,319	398,934	1,137,151	1,518,000	1,795,000	1,364,000	18.25%	-24.01%
Capital Outlay	939,680	2,117,068	4,043,083	4,395,000	2,555,000	1,337,000	-41.87%	-47.67%
Principal	288,331	288,146	288,912	288,913	289,042	289,748	0.04%	0.24%
Interest	16,614	14,841	13,903	13,903	231,981	261,025	1568.57%	12.52%
Total Capital Expenses	1,743,652	2,862,530	5,818,986	6,265,816	4,921,023	3,301,773	-21.46%	-32.90%
Non-Cash Accounting Adjustments								
Operating Prior Period Adjustment	-	-	-	-	-	-	0.00%	0.00%
Capital Prior Period Adjustment	-	-	-	-	-	-	0.00%	0.00%
GASB 68 Pension Adjustment	-	-	-	-	-	-	0.00%	0.00%
Transfer Out for Debt Service	-	-	56,171	115,620	188,987	188,987	63.46%	0.00%
Indirect cost allocation	508,361	518,528	528,899	528,899	665,756	689,723	25.88%	3.60%
Total Non-Cash Accounting Adjustments	508,361	518,528	585,070	644,519	854,743	878,710	32.62%	2.80%
Total Expenses	4,901,153	5,977,852	9,052,809	9,729,475	8,871,281	7,239,814	-8.82%	-18.39%
Change in Fund Balance	1,394,772	521,550	(16,625)	(743,475)	198,719	750,186	-126.73%	277.51%
Net working capital (Fund Balance)	3,612,324	4,123,345	3,595,700	3,379,870	3,794,419	4,544,605	12.27%	19.77%

Capital Projects

The capital projects listed below are capital projects planned for the 2017-2018 biennium. The year in which the project is estimated to be completed has been provided. Additional information on the projects may be found in the Capital Improvement Program section of the budget.

2019-2020 Surface Water Capital Projects	2019 Budget	2020 Budget	Anticipated Completion
E Marginal Wy Stormwater Outfalls	1,166,000	211,000	2019
Riverton Creek Flap Gate Removal	1,142,000	15,000	2019
Gilliam Creek Fish Barrier Removal	-	554,000	2022
Tukwila 205 Levee Certification	525,000	230,000	2022
Chinook Wind	215,000	335,000	2020
GIS Inventory of Surface Water	67,000	100,000	N/A
Other (Annual Maint, etc.)	1,285,000	1,306,000	N/A
	\$4,400,000	\$ 2,751,000	

Debt Service Requirements

The following chart provides information on debt service requirements, by debt issue, for the biennium.

Debt Service	Project	Budget	
		2019	2020
2015 Revenue Bonds	Allentown Phase II		
Principal		\$ 18,088	\$ 18,794
Interest		3,664	3,241
	Total	21,752	22,034
PWTFL 2001	Duwamish/ Valley View		
Principal		11,597	11,597
Interest		174	116
	Total	11,771	11,713
PWTFL 2004	Allentown Phase II		
Principal		37,212	37,212
Interest		1,116	930
	Total	38,328	38,142
PWTFL 2004	Cascade View		
Principal		222,144	222,144
Interest		6,664	5,554
	Total	228,808	227,698
Public Safety Plan	Public Works Shops		
2018 Bond Issuance			
Interest		188,987	188,987
	Total	188,987	188,987
Public Safety Plan	Public Works Shops		
2019 Bond Issuance			
Interest		30,844	61,688
	Total	30,844	61,688
Total Principal		289,041	289,746
Total Interest		231,449	260,515
Total Debt Service		\$ 520,490	\$ 550,261

Amortization of premiums and discounts are not included in this schedule but are included in the Revenue and Expense Summary statement.

Expenditure Detail - Salaries and Benefits

Salaries for budgeted positions are based on actual costs for existing positions and include a cost of living adjustment per contract agreements.

Surface Water Fund							
Position Description	2018	2019	2019 Budgeted		2020	2020 Budgeted	
	FTE	FTE	Salaries	Benefits	FTE	Salaries	Benefits
Maint & Ops Superintendent	0.5	0.5	\$ 48,687	\$ 15,464	0.5	\$ 52,141	\$ 16,510
Maint & Ops Foreman	1.5	1.5	129,653	55,885	1.5	132,192	53,072
Maint & Ops Specialist	5.5	5.5	411,305	197,717	5.5	420,464	205,972
Senior Engineer	1	1	125,361	48,000	1	127,968	49,670
Engineer (NPDES Coord)	1	1	105,862	41,283	1	108,144	42,864
Sr. Maint & Ops Specialist	1	1	65,068	37,599	1	66,360	39,206
Inspector SW	1	1	75,655	36,444	1	77,654	38,029
Project Manager SW	1	1	110,939	46,595	1	113,730	48,491
Extra Labor			8,000	793		8,000	793
Overtime			9,000	892		9,000	892
Clothing Allowance				1,500			1,500
Department Total	12.5	12.5	\$ 1,089,529	\$ 482,172	12.5	\$ 1,115,653	\$ 496,997

Surface Water Operations and Maintenance Capital

The Surface Water Department operations and maintenance capital purchases for 2019 include a portion of the purchase of a slope mower. The total purchase is \$43,000 with 70% of the cost (\$30,000) funded by Surface Water and 30% (\$13,000) from Sewer. The Spider Slope Mower will assist the crew maintain easements and ponds throughout the city where there is a steep terrain.

Expenditure Detail Operations - Supplies, Services, and Other

Supplies include supplies specific to administering the surface water program. Services now includes costs for King County processing the City's Surface Water billing. It also includes engineering, surveying, repair and replacement costs of equipment, utilities, registrations, and credit card fees, among others. Intergovernmental includes excise tax and interfund utility tax.

Surface Water - Administration						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
412.01.538.301.31.00 Supplies - Office & Operating	\$ -	\$ -	\$ 526	\$ -	\$ -	\$ -
412.01.538.380.31.00 Supplies -	1,044	651	-	-	-	-
412.01.538.380.31.01 Supplies - Community Education	46	280	123	1,000	-	-
412.01.538.380.31.02 Supplies -Operating	34,665	27,598	45,426	36,000	36,000	36,000
412.01.538.380.31.03 Supplies - Office & Safety	2,362	9,727	2,393	1,500	1,500	1,500
412.01.538.380.31.04 Supplies - Billing	1,885	3,015	-	-	-	-
412.01.538.380.35.00 Small Tools & Minor Equipment - Minor tools	2,826	932	1,156	4,000	4,000	4,000
412.01.538.380.35.01 Small Tools & Minor Equipment - Traffic Control Devices	2,866	1,154	1,000	1,000	1,000	1,000
Total Supplies	45,694	43,356	50,625	43,500	42,500	42,500

Expenditure Detail Operations - Supplies, Services, and Other, Continued

Surface Water - Administration Continued						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
412.01.538.301.42.00 Communication	957	1,276	1,180	-	-	-
412.01.538.301.43.00 Travel - Mileage, parking	-	222	8	-	-	-
412.01.538.301.48.00 R&M - Equipment repair	13,100	-	-	-	-	-
412.01.538.301.49.00 Misc - Project expense	-	150	-	-	-	-
412.01.538.380.41.00 Prof Svcs - Engineering and surveying	258,019	244,987	241,767	2,000	2,000	2,000
412.01.538.380.41.01 Prof Svcs - Utility one call services	527	632	586	400	650	650
412.01.538.380.41.02 Prof Svcs - CDLs hearing and physicals	744	945	891	1,200	1,200	1,200
412.01.538.380.41.06 Prof Svcs - King County Storm Water Billing	-	-	-	-	168,000	65,000
412.01.538.380.42.00 Communication - Phone bills and Nextels	1,190	520	1,572	2,000	2,000	2,000
412.01.538.380.43.00 Travel - Mileage, meals and parking	3,784	1,187	961	2,000	2,000	2,000
412.01.538.380.44.00 Advertising - Ads for jobs	4,685	650	500	500	500	500
412.01.538.380.45.00 Rental - Trackhoes, backhoes, loaders, forklifts, and surface water supplies	2,027	1,665	712	4,000	4,000	4,000
412.01.538.380.45.94 Rental - Equipment Replacement Fund	87,553	230,345	230,345	230,345	292,665	294,765
412.01.538.380.45.95 Rental - Equipment Rental O & M	80,180	103,921	100,241	100,241	110,721	110,162
412.01.538.380.46.01 Insurance - WCIA	19,465	22,278	24,616	24,508	27,077	29,784
412.01.538.380.47.00 Public Utility - Electrical, gas, water and sewer utilities for storm lift stations	839	1,405	5,000	5,000	1,000	1,000
412.01.538.380.47.01 Public Utility - Hauling dirt, asphalt & concrete disposal, garbage disp.	26,619	16,375	57,957	60,000	50,000	50,000
412.01.538.380.47.02 Public Utility - Electrical service	388	431	742	500	500	500
412.01.538.380.47.03 Public Utility - Storm filter cleaning	-	-	-	-	20,000	20,000
412.01.538.380.47.04 Public Utility - Spill Response & Disposal	21	2,544	5,196	30,000	20,000	20,000
412.01.538.380.47.21 Public Utility - Electric	8,372	8,268	9,248	7,500	9,300	9,700
412.01.538.380.47.25 Public Utility - Water	1,448	2,210	2,056	1,500	2,400	2,500
412.01.538.380.47.26 Public Utility - Surface Water	2,737	2,816	3,139	2,500	4,000	4,120
412.01.538.380.48.00 R&M -	152,999	40,255	32,523	33,000	33,000	33,000
412.01.538.380.48.02 Telemetry and Alarm - Pump Stations	-	-	4,000	4,000	4,000	4,000
412.01.538.380.49.00 Misc - Reg, tuition, memberships, software upgrades, publications &	5,195	6,002	3,983	6,000	6,000	6,000
412.01.538.380.49.01 Misc - King County recording lien fees for delinquent surface water bills	3,800	3,200	15,000	15,000	-	-
412.01.538.380.49.08 Misc - PPI credit card fees	16,724	18,908	19,215	17,500	-	-
Total Services	691,372	711,193	761,438	549,694	761,013	662,881
412.01.538.380.53.00 Ext taxes & operating assessments	69,214	71,736	62,855	50,000	50,000	50,000
412.01.538.380.54.12 Interfund Taxes - Utility tax	586,530	616,836	636,222	636,000	670,300	691,300
Total Intergovernmental	655,744	688,572	699,077	686,000	720,300	741,300
Total Supplies, Services and Other	\$ 1,392,810	\$ 1,443,121	\$ 1,511,140	\$ 1,279,194	\$ 1,523,813	\$ 1,446,681

Expenditure Detail Capital - Supplies, Services, and Other

Supplies include items for capital projects. Services include construction management costs. Capital includes construction and purchase of capital assets.

Surface Water - Capital Outlays						
Account Number	Actual			Budget		
	2016	2017	Projected 2018	2018	2019	2020
412.98.594.382.31.00 Supplies -Office and Operating	\$ 1,374	\$ -	\$ 52,667	\$ 50,000	\$ 50,000	\$ 50,000
Total Supplies	1,374	-	52,667	50,000	50,000	50,000
412.98.594.382.41.00 Prof Svcs - Construction management	301,531	397,938	1,136,744	1,518,000	1,795,000	1,364,000
412.98.594.382.42.00 Communication - Postage	-	-	12	-	-	-
412.98.594.382.44.00 Advertising - Bid ads	1,946	995	-	-	-	-
412.98.594.382.48.00 R&M - Crushed rock, other repair	73,842	-	-	-	-	-
412.98.594.382.49.00 Misc - Other	-	-	394	-	-	-
Total Services	377,319	398,934	1,137,151	1,518,000	1,795,000	1,364,000
412.01.594.380.64.00 Capital - Machinery & equipment	-	6,364	-	-	30,000	-
412.98.594.382.61.00 Capital - Land	-	-	-	-	125,000	-
412.98.594.382.64.00 Capital - Machinery & equipment	-	-	5,194	-	-	-
412.98.594.382.65.00 Capital - Construction projects	939,680	2,117,068	4,037,889	4,395,000	2,430,000	1,337,000
Total Other	939,680	2,123,432	4,043,083	4,395,000	2,585,000	1,337,000
Total Capital Outlays	\$ 1,318,373	\$ 2,522,366	\$ 5,232,900	\$ 5,963,000	\$ 4,430,000	\$ 2,751,000

City of Tukwila
CAPITAL IMPROVEMENT PROGRAM
 for
 2019 - 2024

SURFACE WATER
412 Fund

CIP Page #	PROJECT TITLE	2019	2020	2021	2022	2023	2024	TOTAL	**Other Sources	After Six Years
88	Annual Small Drainage Program	710	710	710	709	710	710	4,259	0	713
89	Storm Water Quality Retrofit Program	359	115	1,035	65	105	105	1,784	1,094	115
90	NPDES Program	50	50	55	55	60	60	330	110	65
91	WRIA 9 Watershed Planning	13	14	14	15	15	16	87	87	16
92	East Marginal Wy S Stormwater Outfalls	1,166	211	0	0	0	0	1,377	1,106	0
93	Riverton Creek Flap Gate Removal	1,142	15	15	15	15	15	1,217	847	15
94	Gilliam Creek Fish Barrier Removal	0	554	1,200	1,200	15	15	2,984	2,365	760
95	Tukwila 205 Levee Certification	525	230	865	4,600	0	0	6,220	5,808	0
96	Chinook Wind	215	335	15	15	15	15	610	325	0
97	Green the Green	103	117	105	115	120	125	685	294	130
98	Surface Water GIS Inventory	67	100	0	150	0	0	317	0	0
99	Nelson Side Channel	50	200	600	600	15	15	1,480	1,150	15
100	S 131st PI Drainage Improvements	0	100	690	0	0	0	790	0	0
101	Northwest Gilliam Storm Drainage System	0	0	0	100	840	0	940	0	0
102	Surface Water Comprehensive Plan	0	0	200	0	0	0	200	0	0
103	S 146th St Pipe & 35th Ave S Drainage	0	0	0	0	166	716	882	0	0
104	Tukwila Pkwy/Gilliam Creek Outfalls	0	0	0	0	75	410	485	0	0
	Soils Reclamation Facility	0	0	0	0	0	0	0	0	1,375
	S 143rd Street Storm Drainage System	0	0	0	0	0	0	0	0	1,096
	Nelsen Pl/Longacres Surface Water Phase II	0	0	0	0	0	0	0	0	345
	Duwamish Rvrbk Stabilization at S 104th St	0	0	0	0	0	0	0	0	595
	TUC Surface Water Conveyance	0	0	0	0	0	0	0	0	541
Grand Total		4,400	2,751	5,504	7,639	2,151	2,202	24,647	13,186	5,781

** Denotes other funding sources, grants, or mitigation.

Project sheets scheduled beyond 2024
 can be found in the City's website under
 Public Works Capital Improvement Program.

Changes from 2017 to 2019 CIP:

Deletions:

Gilliam Creek 42 Ave S Surface Water Culvert, surface water completed in 2018.
 53rd Ave S Surface Water Drainage, completed in 2018.

Surface Water Lift Station Locations

Storm Lift Station No. 15	5910 S 180th St - Mizuki Grill
Storm Lift Station No. 16	7420 S 180th St (underpass)
Storm Lift Station No. 17	530 Strander Blvd - Bicentennial Park
Storm Lift Station No. 18	4225 S 122nd St - Allentown
Storm Lift Station No. 19	Fort Dent Park (Parks Dept.)

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Annual Small Drainage Program

Project No. 9XX41201

DESCRIPTION: Select, design, and construct small drainage projects throughout the City.

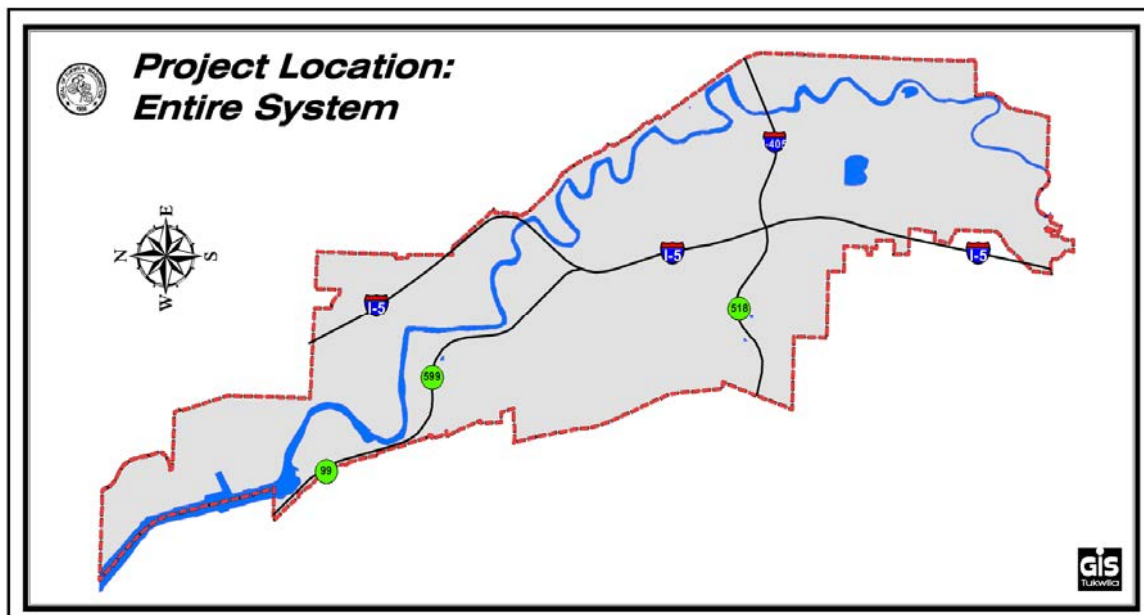
JUSTIFICATION: Provide drainage corrections for existing/ongoing drainage problems throughout the City, including culvert replacements, drain extensions, and pavement upgrades.

STATUS: Projects for this annual program are taken from Small Drainage Project List.

MAINT. IMPACT: Reduces maintenance.

COMMENT: Ongoing project, only one year shown in first column. Construction expenses may occur over two calendar years.

FINANCIAL (in \$000's)	Through Estimated		2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
	2017	2018								
EXPENSES										
Design	50	80	80	80	80	80	80	80	80	690
Streamgages/Monitor	31	35	35	35	36	36	36	36	40	320
Const. Mgmt.	90	45	80	80	80	80	80	80	80	695
Construction	448	600	515	515	514	513	514	514	513	4,646
TOTAL EXPENSES	619	760	710	710	710	709	710	710	713	6,351
FUND SOURCES										
Awarded Grant										0
Proposed Grant		50								50
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	619	710	710	710	710	709	710	710	713	6,301
TOTAL SOURCES	619	760	710	710	710	709	710	710	713	6,351



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Storm Water Quality Retrofit Program

Project No. 91241202

DESCRIPTION: Provide, design, and install water quality testing and improvements at selected drainage locations.

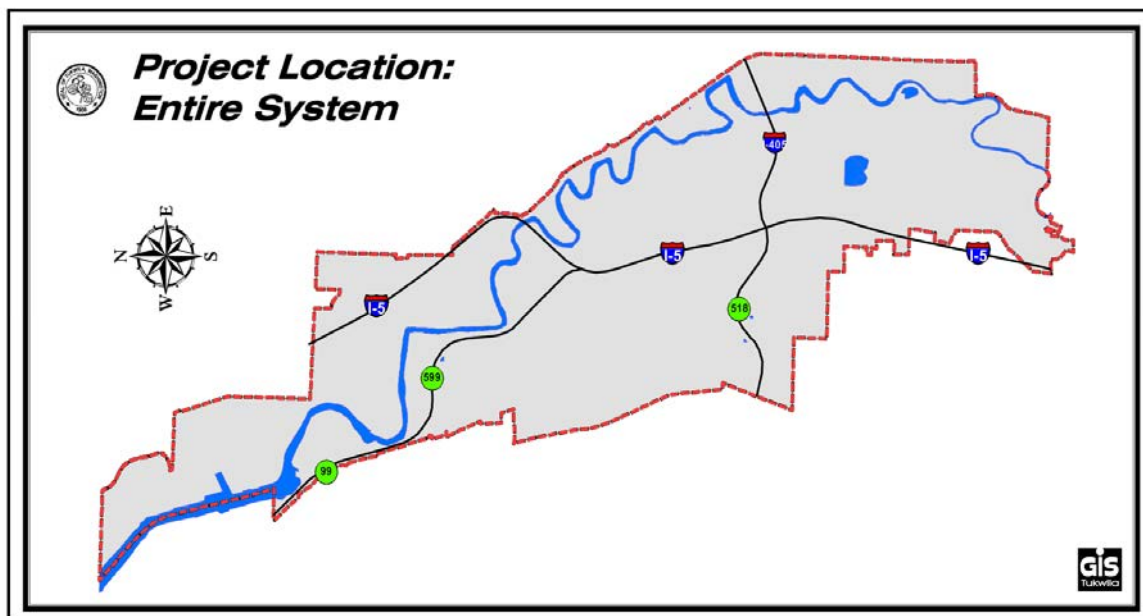
JUSTIFICATION: Most surface water is discharged directly to receiving water bodies untreated.

STATUS: Water quality was added to Interurban Ave S in 2015 and 53rd Ave S in 2018.

MAINT. IMPACT: Expected to increase maintenance.

COMMENT: Combine with other CIP projects for design and construction, where feasible. A 2017 WA State Department of Ecology grant was awarded for \$244,375 with a City match of \$43,125.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design	1		299	20	20	10	10	15	20	395	
Land (R/W)										0	
Const. Mgmt.			15	15	15	15	15	10	15	100	
Construction			45	80	1,000	40	80	80	80	1,405	
TOTAL EXPENSES	1	0	359	115	1,035	65	105	105	115	1,900	
FUND SOURCES											
Awarded Grant			244							244	
Proposed Grant					850					850	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	1	0	115	115	185	65	105	105	115	806	
TOTAL SOURCES	1	0	359	115	1,035	65	105	105	115	1,900	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: NPDES Program

Project No. 99341210

DESCRIPTION: Provide programmatic implementation requirements of NPDES. The Master Drainage Program specifies a NPDES reporting and action plan for City compliance. The services/supplies funds will also include any illicit discharge (spill cleanup) costs that may occur in the City's right-of-way.

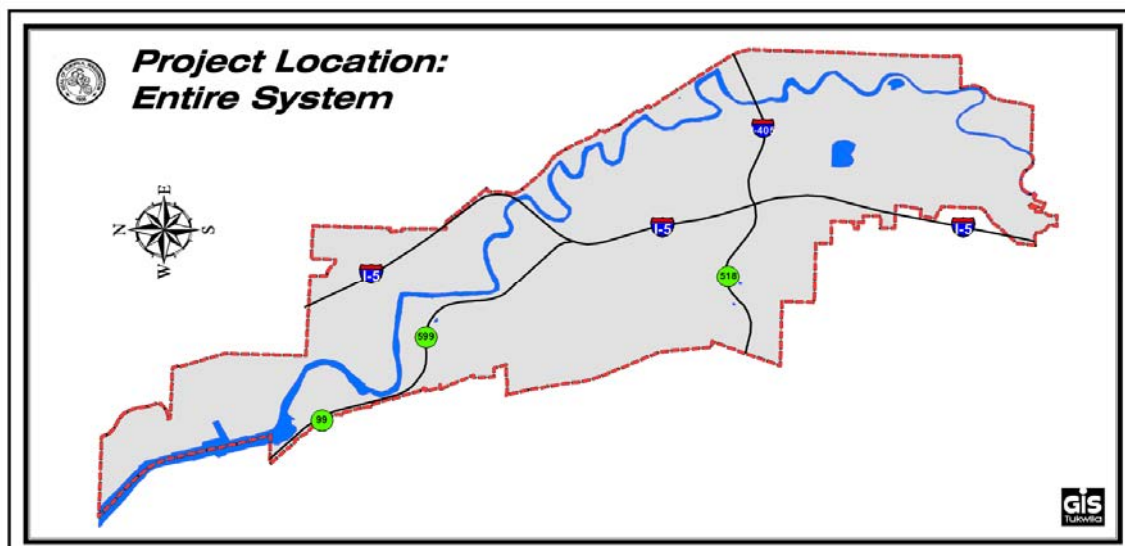
JUSTIFICATION: State NPDES requirements include an annual report, public education and outreach, illicit discharge detection and illumination, approved technical standards, staff training, inspections of public and private systems, and drainage system maps.

STATUS: All current NPDES requirements have been implemented. LID added to TMC in 2017.

MAINT. IMPACT: Additional cleaning and documentation will require added staff resources.

COMMENT: National Pollutant Discharge Elimination System (NPDES). Additional NPDES requirements will be ongoing. Costs shown include emergency supplies, testing equipment, DOE testing, and annual public outreach surveys.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Staff	1,156	222								1,378	
Services/Supplies	403	50	50	50	55	55	60	60	65	848	
Const. Mgmt.										0	
Construction	12									12	
TOTAL EXPENSES	1,571	272	50	50	55	55	60	60	65	2,238	
FUND SOURCES											
Awarded Grant	150									150	
Proposed Grant				50			60			110	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	1,421	272	50	0	55	55	0	60	65	1,978	
TOTAL SOURCES	1,571	272	50	50	55	55	60	60	65	2,238	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **WRIA 9 Watershed Planning** Project No. 91641205

DESCRIPTION: City participation in an Interlocal Agreement with WRIA 9 jurisdictions and administered by King County.

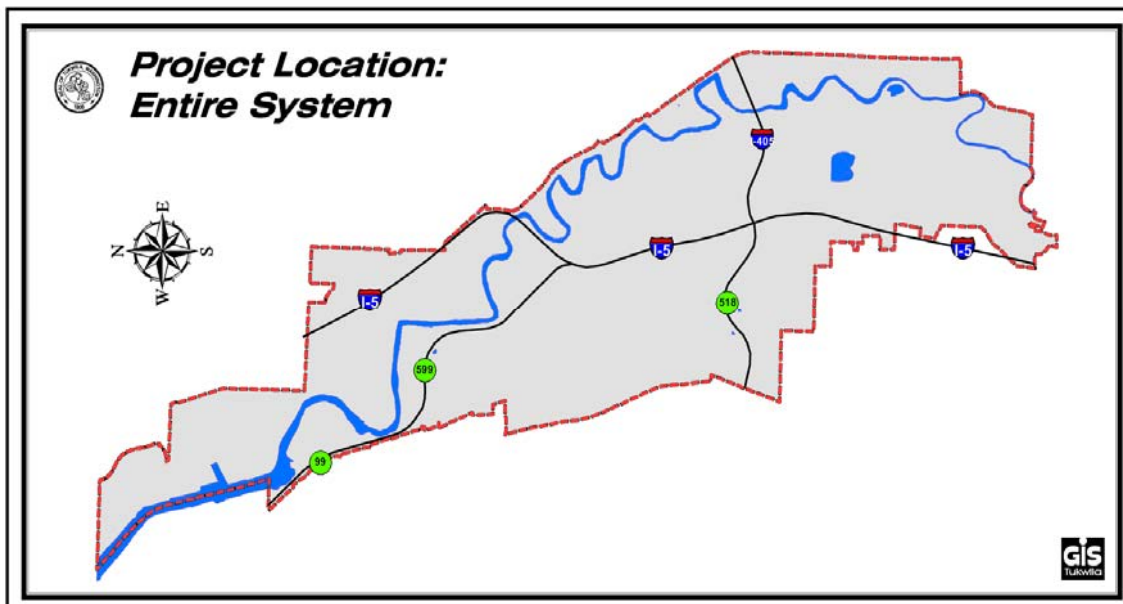
JUSTIFICATION: Endangered Species Act (ESA) related project. Services provided by King County Dept. of Natural Resources (KCDNRP) under an Interlocal agreement between participating jurisdictions in Water Resource Inventory Area 9 (WRIA 9) and King County. City's contribution is \$12,448 per year.

STATUS: Interlocal Agreement has been adopted by all cities with an extension through 2025.

MAINT. IMPACT: Policies and recommendations will impact maintenance.

COMMENT: Ongoing project, only one year actuals are shown in the first column.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	12	13	13	14	14	15	15	16	16	128
Land (R/W)										0
Const. Mgmt.										0
Construction										0
TOTAL EXPENSES	12	13	13	14	14	15	15	16	16	128
FUND SOURCES										
King Conservation District			13	14	14	15	15	16	16	103
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	12	13	0	0	0	0	0	0	0	25
TOTAL SOURCES	12	13	13	14	14	15	15	16	16	128



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: East Marginal Wy S Stormwater Outfalls

Project No. 91041204

DESCRIPTION: Establish legal drainage connections from East Marginal Way South to the Duwamish River.

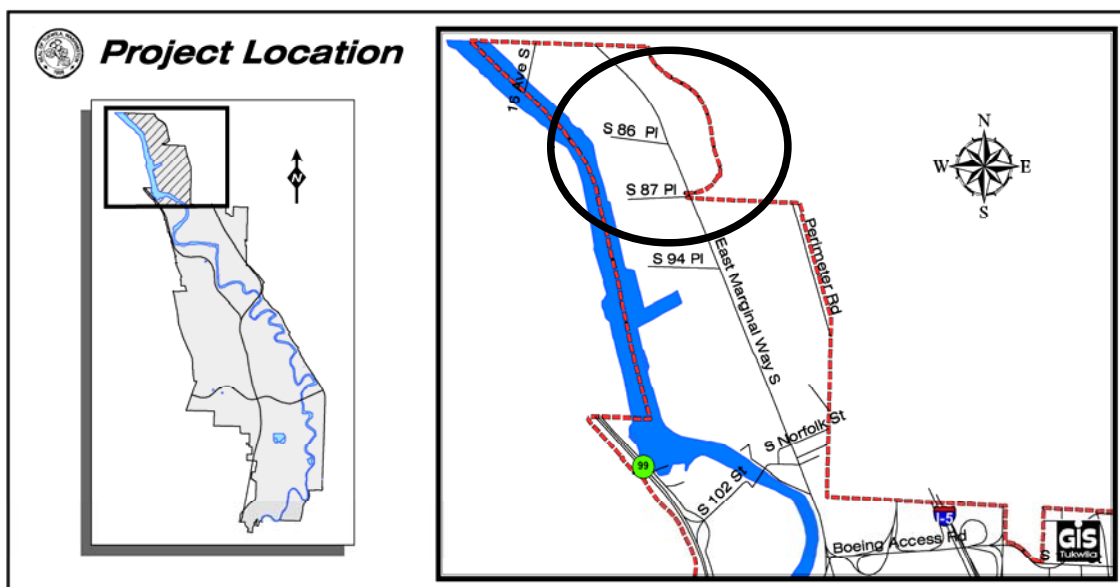
JUSTIFICATION: Drainage from E Marginal Wy S is discharged through outfalls owned and operated by the Boeing Co., Jorgensen Forge, and two King County Airport storm systems without easements.

STATUS: Jorgensen Forge outfall was closed in 2011 under an order from the US EPA. The Boeing Company contacted the City in 2009 requesting that the City take over ownership of their storm line and outfall. A consultant is preparing design for rerouting the Jorgensen outfall and adding water quality features.

MAINT. IMPACT: Clarifies maintenance responsibility and will ensure reliability of system.

COMMENT: City adopted Boeing's Z Line in 2015. Phase II: Line pipe, add water quality device and connect Jorgensen's drainage to Boeing's Z Line in 2017 and 2018. DOE design and construction grant awarded in 2015 for \$1.1m.

FINANCIAL (in \$000's)	Through Estimated		2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
	2017	2018								
EXPENSES										
Design	201	75								276
Monitoring	21	11	11	11						54
Const. Mgmt.			271							271
Construction			884	200						1,084
TOTAL EXPENSES	222	86	1,166	211	0	0	0	0	0	1,685
FUND SOURCES										
Awarded Grant	120	56	1,106							1,282
Awarded Grant										0
Proposed Grant										0
Mitigation Expected										0
Utility Revenue	102	30	60	211	0	0	0	0	0	403
TOTAL SOURCES	222	86	1,166	211	0	0	0	0	0	1,685



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Riverton Creek Flap Gate Removal

Project No. 99830103

DESCRIPTION: Remove two culverts and flap gates at Duwamish River; install pipe arch, create open channel confluence, install trail bridge over new channel, restore/revegetate 200 feet of creek channel and 450 ft. of pond shoreline.

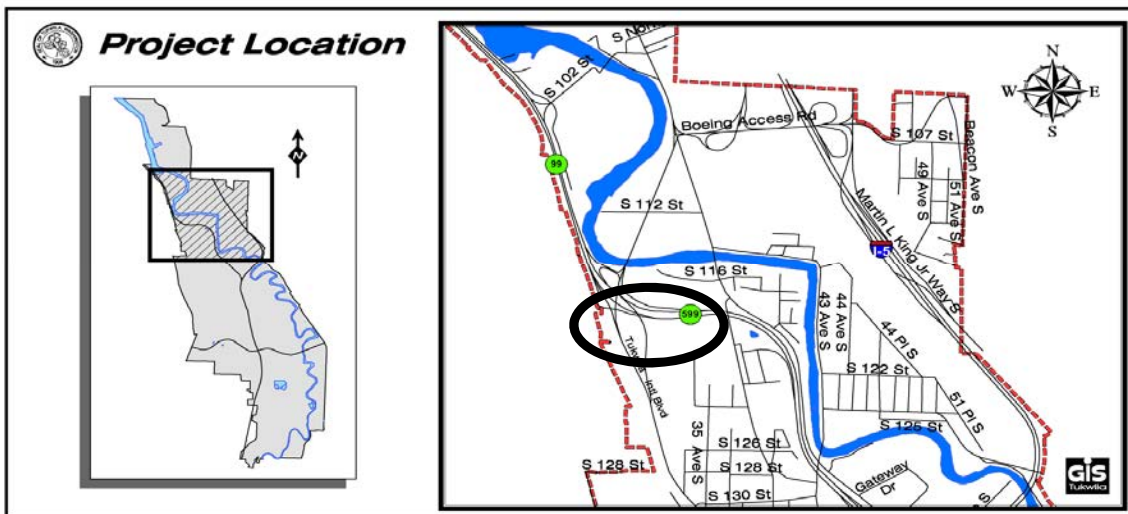
JUSTIFICATION: Increase available salmonid rearing habitat and increase flood refuge in lower Duwamish River. Improve fish access to Riverton Creek and enhance salmon rearing and resting area.

STATUS: Design underway in 2018. Construction grant of \$846k from WA State RCO.

MAINT. IMPACT: Expected to increase maintenance.

COMMENT: Project used as mitigation for East Marginal Way Pipe Replacement Project and HPA Control #133763-1 requires work to be completed by June 11, 2019, which will need to be extended.

FINANCIAL (in \$000's)	Through		Estimated							TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design	204	100	40							344
Land (R/W)										0
Monitoring				15	15	15	15	15	15	90
Const. Mgmt.			184							184
Construction			918							918
TOTAL EXPENSES	204	100	1,142	15	15	15	15	15	15	1,536
FUND SOURCES										
Awarded Grant	72		847							919
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	132	100	295	15	15	15	15	15	15	617
TOTAL SOURCES	204	100	1,142	15	15	15	15	15	15	1,536



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Gilliam Creek Fish Barrier Removal Project No. 99830105

DESCRIPTION: Construct fish passage improvements at existing flap gate location and replace/modify the flap gate which may include a self-regulating tide gate.

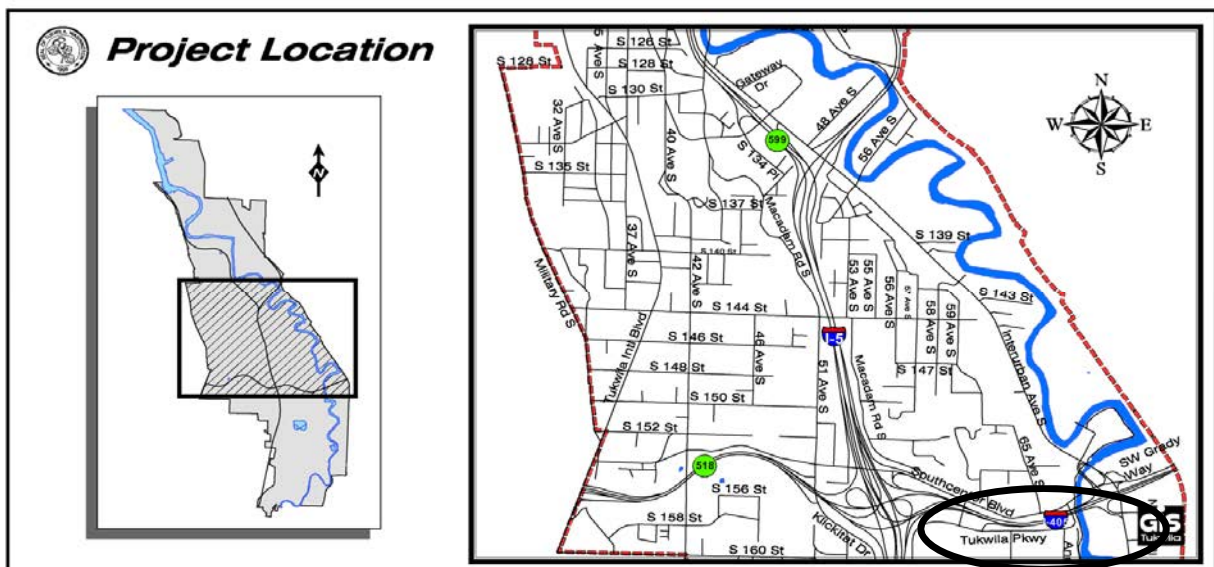
JUSTIFICATION: Enable fish access to lower Gilliam Creek under wider range of flow conditions.

STATUS: Analysis of lower Gilliam Creek is being conducted in 2018 to determine the best solution for fish passage and to address potential flooding.

MAINT. IMPACT: Expected to have an increase in monitoring/maintenance.

COMMENT: Grant proposals to State RCO and KC Flood Control District.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	39	22		554					110	725
Land (R/W)										0
Monitoring							15	15	15	45
Const. Mgmt.					200	200			85	485
Construction					1,000	1,000			550	2,550
TOTAL EXPENSES	39	22	0	554	1,200	1,200	15	15	760	3,805
FUND SOURCES										
Awarded Grant										0
Proposed Grant				325	1,020	1,020			500	2,865
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	39	22	0	229	180	180	15	15	260	940
TOTAL SOURCES	39	22	0	554	1,200	1,200	15	15	760	3,805



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Tukwila 205 Levee Certification** Project No. 91341203

DESCRIPTION: Obtain levee certification for the Tukwila 205 Levee.

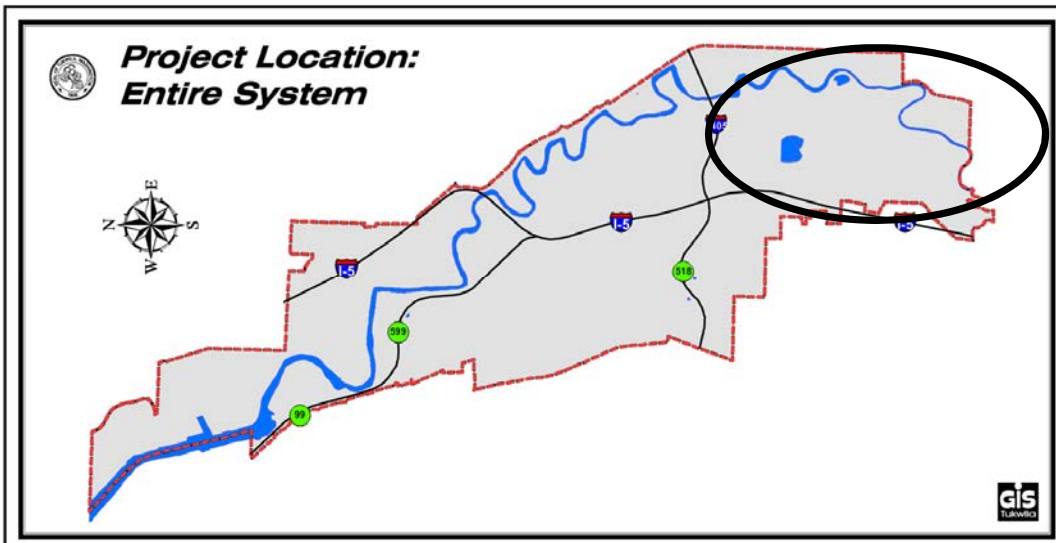
JUSTIFICATION: The US Army Corps of Engineers no longer provides levee certification services to federally authorized levees. The existing certification expired in August of 2013. Certification is required for the Federal Emergency Management Agency to accreditate the levee system as providing a 100-year level of flood protection.

STATUS: Phase I was a overview of entire levee system and Phase II includes identification of levee deficiencies.

MAINT. IMPACT: Certification process is expected to lead to additional levee repair projects that are required to meet the certification criteria. Certification is valid for a 10-year period.

COMMENT: Costs listed in 2019 through 2022 are estimates for potential repairs that would be grant dependent. King County Flood Control District's Opportunity Grant Program currently has \$63k per year. The Army Corps of Engineers is currently designing a levee repair project near Mitchell Moving, GACO, and Segale Properties with construction in 2019. Overall costs for Corps/Flood District project is \$55 million, with no City funding.

FINANCIAL (in \$000's)	Through		Estimated								
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL	
EXPENSES											
Certification Phase I	350									350	
Certification Phase II	93	220	250							563	
Design			275							275	
Const. Mgmt.				30	115	600				745	
Construction				200	750	4,000				4,950	
TOTAL EXPENSES	443	220	525	230	865	4,600	0	0	0	6,883	
FUND SOURCES											
KC Flood Control	113	63	63	63	63	63	63	63	63	617	
Proposed Grants				150	780	4,500				5,430	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	330	157	462	17	22	37	(63)	(63)	(63)	836	
TOTAL SOURCES	443	220	525	230	865	4,600	0	0	0	6,883	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Chinook Wind** Project No. 91441202

DESCRIPTION: King County purchased site and will restore it as a salmon estuary and passive park in partnership with the City.

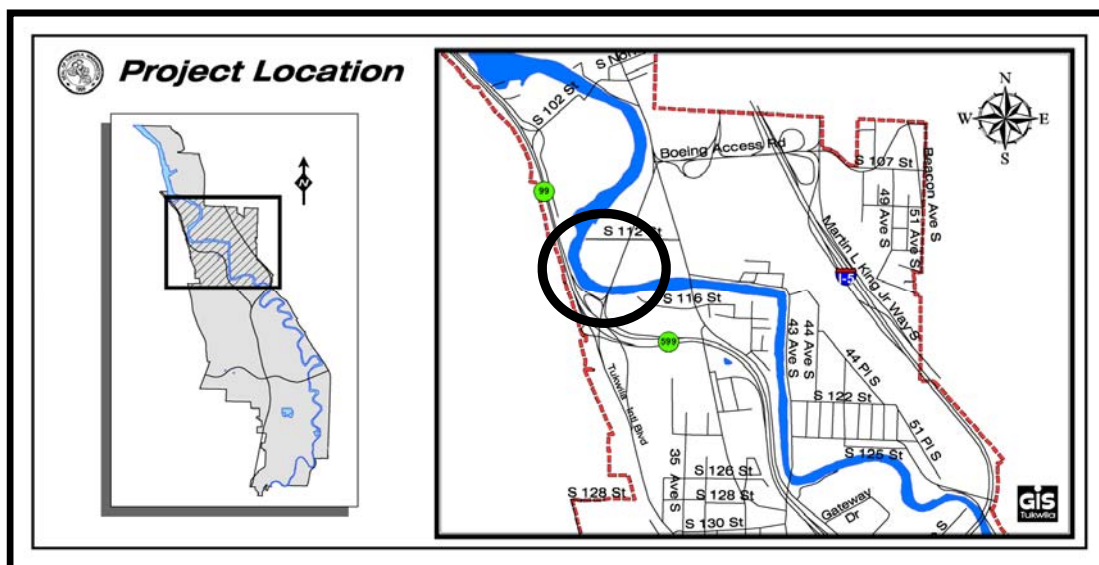
JUSTIFICATION: The WRIA 9 Salmon Recovery Plan recommends creating 20-acres of off-channel habitat within the Duwamish Transition Zone and lists this section of the river as critical habitat for salmon recovery within the Green/Duwamish Watershed.

STATUS: Property purchased and site cleared by King County in 2015 using King Conservation Futures and King County Mitigation Bank. Site planned to be turned over to Tukwila.

MAINT. IMPACT: Passive park will require additional maintenance and will include Duwamish Gardens.

COMMENT: Grant funding for construction is from the KC Mitigation Bank. City applied for State RCO grant of \$138k for trail & parking.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	7	9	75	25						116
Land (R/W)	52		125							177
Monitoring			15	15	15	15	15	15	15	105
Const. Mgmt.				20						20
Construction				275						275
TOTAL EXPENSES	59	9	215	335	15	15	15	15	15	693
FUND SOURCES										
Awarded Grant				138						138
Proposed Grant			50	137						187
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	59	9	165	60	15	15	15	15	15	368
TOTAL SOURCES	59	9	215	335	15	15	15	15	15	693



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Green the Green

Project No. 91641202

DESCRIPTION: Interdepartmental effort to provide trees along the Green River and its tributaries in order to provide shade and cooler water temperatures to threatened salmon and steelhead.

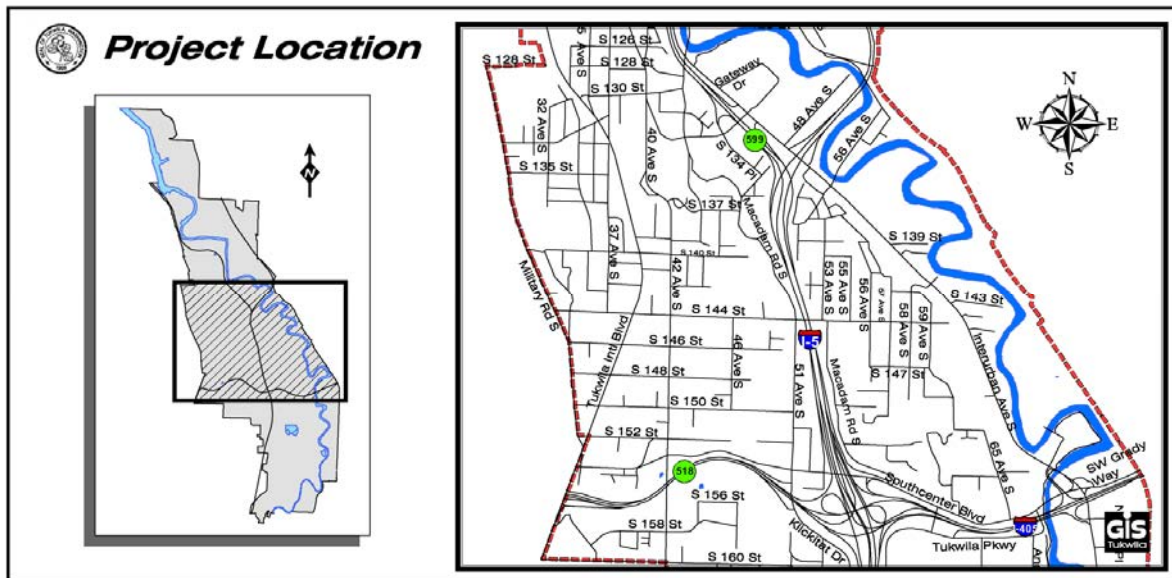
JUSTIFICATION: WRIA 9 has identified warm water temperatures as an impediment to salmon recovery, and has also started a funding program called, "ReGreen the Green" which aims to support revegetation projects along the river.

STATUS: Project sites have been identified. Other planting opportunities are being identified in a collaborative effort between Public Works and DCD.

MAINT. IMPACT: Expected to increase maintenance.

COMMENT: Proposed grant funding is from WRIA9 King County Flood Control District and others.

FINANCIAL (in \$000's)	Through Estimated									TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	
EXPENSES										
Design	14		20	20	20	25	25	25	30	179
Land (R/W)										0
Monitoring				20	20	30	30	40	40	180
Const. Mgmt.	1	5	15	10	15	10	15	10	10	91
Construction		15	68	67	50	50	50	50	50	400
TOTAL EXPENSES	15	20	103	117	105	115	120	125	130	850
FUND SOURCES										
Awarded Grant	8		44	50						102
Proposed Grant					50	50	50	50	50	250
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	7	20	59	67	55	65	70	75	80	498
TOTAL SOURCES	15	20	103	117	105	115	120	125	130	850



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Surface Water GIS Inventory

Project No. 90241201
80241201

DESCRIPTION: The GIS (Geographic Information Systems) inventory establishes citywide as-built drawings for the public drainage systems. This is an ongoing project as all CIP and development infrastructure improvements will need to be mapped.

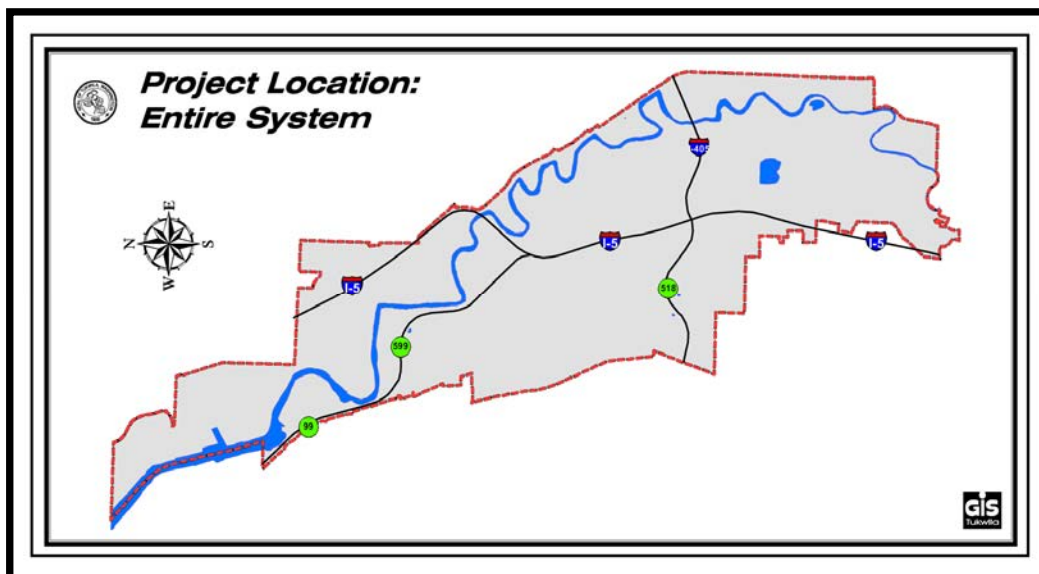
JUSTIFICATION: State NPDES requirements include provisions for permitted jurisdictions to compile accurate drainage system maps for all outfalls 24" or greater.

STATUS: GIS mapping was completed citywide in 2013. Future contracts will keep maps up to date as projects change the existing system. Combined Asset Management System scheduled for 2017.

MAINT. IMPACT: GIS information will allow maintenance to better track storm facility maintenance needs.

COMMENT: National Pollution Discharge Elimination System (NPDES). Department of Ecology grants for NPDES permit.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	1,421	100	67	100		150				1,838
Land (R/W)										0
Const. Mgmt.										0
Construction										0
TOTAL EXPENSES	1,421	100	67	100	0	150	0	0	0	1,838
FUND SOURCES										
Awarded Grant	218	50								268
Proposed Grant										0
Mitigation Actual	100									100
Mitigation Expected										0
Utility Revenue	1,103	50	67	100	0	150	0	0	0	1,470
TOTAL SOURCES	1,421	100	67	100	0	150	0	0	0	1,838



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Nelsen Salmon Habitat Side Channel** Project No. 91641203

DESCRIPTION: Create an off-channel salmon rearing habitat side channel by connecting a segment of historic river channel with the Green River.

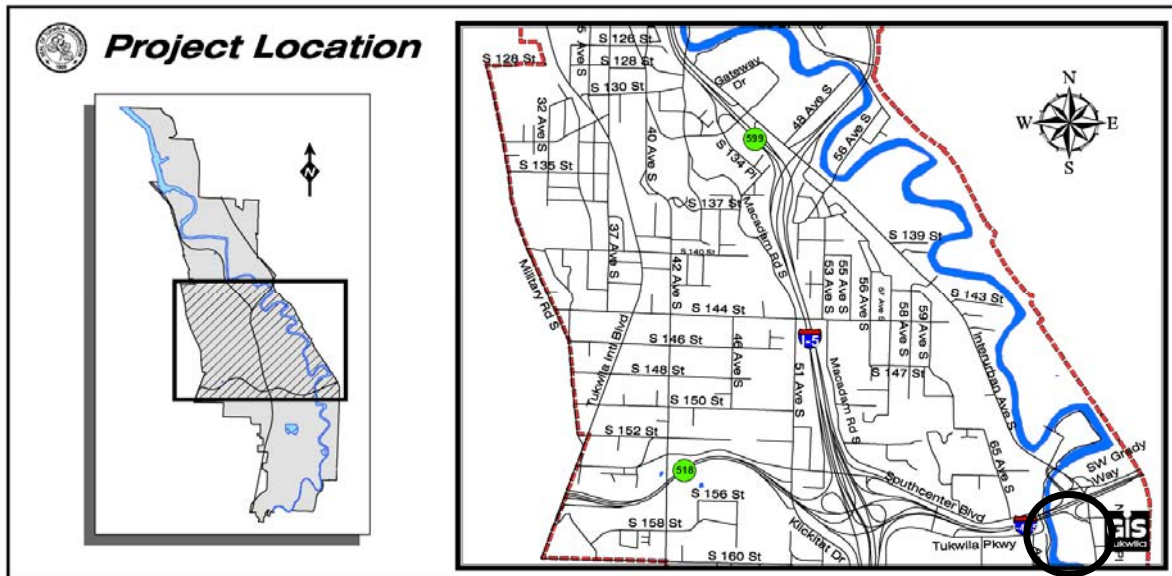
JUSTIFICATION: WRIA 9 has identified this project a proposed action in the Salmon Habitat Plan.

STATUS: The project area is primarily within State lands. The project will involve adjacent properties, and the need for flood protection will need to be analyzed. The Project scope and project area, including any potential property acquisition, needs to be defined and a feasibility study performed.

MAINT. IMPACT: Expected to increase maintenance

COMMENT: Property acquisition to the north could create the opportunity for a side channel and additional flood storage. Grant funding proposed from King County Flood Control District and State.

FINANCIAL (in \$000's)	Through		Estimated								TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND		
EXPENSES											
Design			50	200						250	
Land (R/W)										0	
Monitoring							15	15	15	45	
Const. Mgmt.					100	100				200	
Construction					500	500				1,000	
TOTAL EXPENSES	0	0	50	200	600	600	15	15	15	1,495	
FUND SOURCES											
Awarded Grant										0	
Proposed Grant				150	500	500				1,150	
Mitigation Actual										0	
Mitigation Expected										0	
City Oper. Revenue	0	0	50	50	100	100	15	15	15	345	
TOTAL SOURCES	0	0	50	200	600	600	15	15	15	1,495	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **S 131st Place Drainage Improvements** Project No. 91641204

DESCRIPTION: Design and replace an existing 36" culvert under S. 131st Pl. Raise the roadway approximately 18" and/or provide a concrete wall or other means to keep Southgate Creek within its banks during storm events.

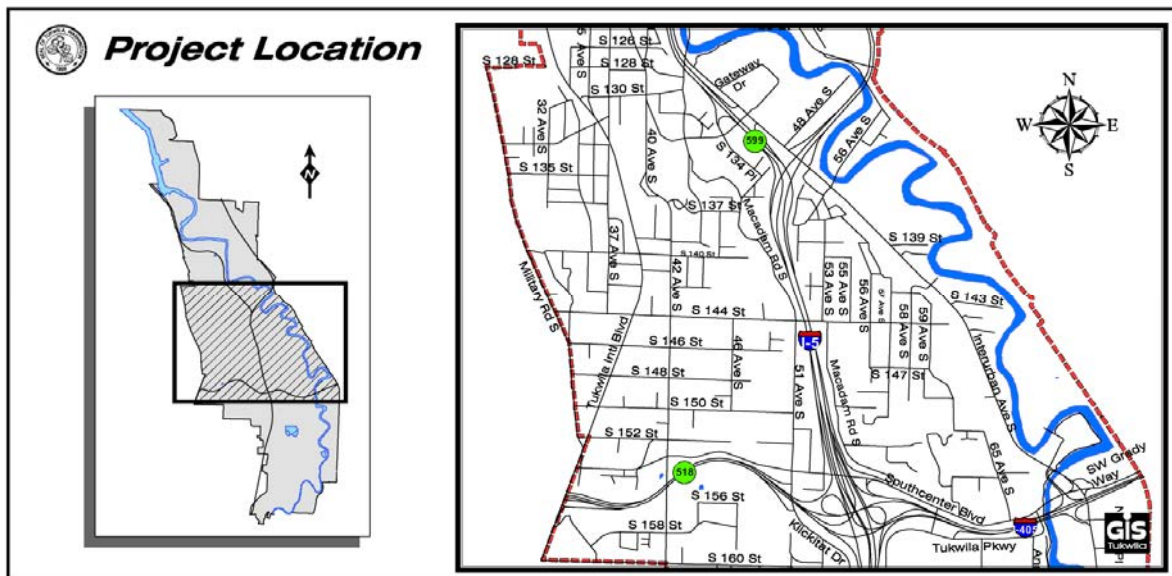
JUSTIFICATION: Southgate Creek overtops its bank several times per year during storm events and runs through private property. Debris is deposited within a private driveway and storm system.

STATUS: Maintenance is performed annually on the creek to remove excess sedimentation to reduce the likelihood of flooding.

MAINT. IMPACT: Reduce the frequency of stream sediment removal and storm cleanup.

COMMENT: Project will require an HPA. Look at combining with a future overlay project to reduce overall costs.

FINANCIAL (in \$000's)	Through		Estimated								
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL	
EXPENSES											
Design				100						100	
Land (R/W)										0	
Const. Mgmt.					90					90	
Construction					600					600	
TOTAL EXPENSES	0	0	0	100	690	0	0	0	0	790	
FUND SOURCES											
Awarded Grant										0	
Proposed Grant										0	
Mitigation Actual										0	
Mitigation Expected										0	
City Oper. Revenue	0	0	0	100	690	0	0	0	0	790	
TOTAL SOURCES	0	0	0	100	690	0	0	0	0	790	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Northwest Gilliam Basin Storm Drainage System Project No. 90341206

DESCRIPTION: Upgrade existing storm drainage system. Provide water quality treatment manholes at the downstream end of the retrofitted drainage systems. Provide asphalt overlay and extruded asphalt curb for all streets.

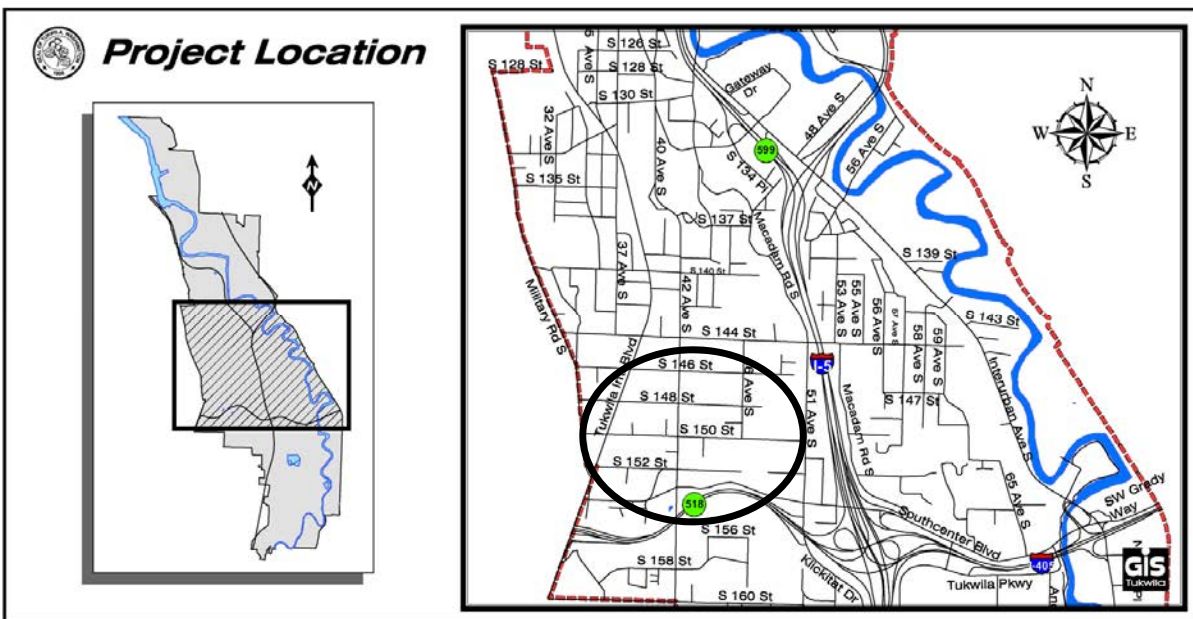
JUSTIFICATION: Reduces right-of-way and private property flooding by increasing the hydraulic capacity of the existing storm drainage system. Water quality manholes remove sediment and oil from street runoff.

STATUS: S 146th St was completed in 2009 and S 150th in 2015 with Thorndyke Safe Routes to School. Remaining streets include S 148th St and S 152nd St.

MAINT. IMPACT: Expected to decrease maintenance.

COMMENT: Where feasible, combine with future water quality and overlay projects to reduce costs and construction impact.

FINANCIAL (in \$000's)	Through Estimated									
	2017	2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design						100				100
Land (R/W)										0
Const. Mgmt.							40			40
Construction							800			800
TOTAL EXPENSES	0	0	0	0	0	100	840	0	0	940
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	0	0	0	0	0	100	840	0	0	940
TOTAL SOURCES	0	0	0	0	0	100	840	0	0	940



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Surface Water Comprehensive Plan

Project No. 91041202

DESCRIPTION: Periodically revise and update the adopted Surface Water Comprehensive Plan to: 1) Incorporate the latest requirements of the National Pollution Discharge Elimination System (NPDES) and Endangered Species Act (ESA); 2) Update Capital Improvement Projects to reflect current needs and completed projects; 3) Include GIS based basin and system maps as they become available; and 4) Revise Storm Water ordinance as needed.

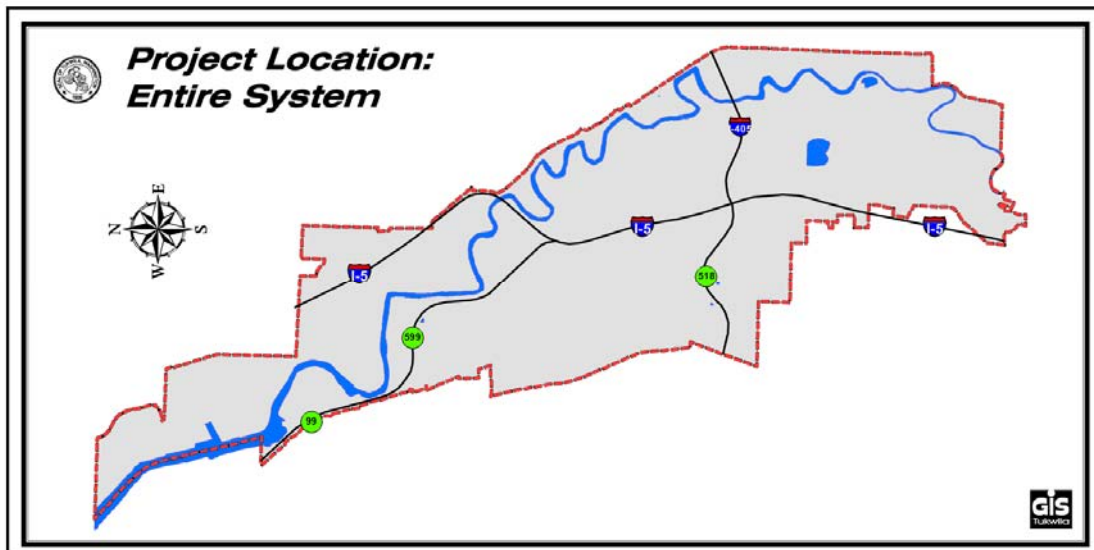
JUSTIFICATION: The latest requirements from regulatory agencies as well as newly identified City needs must be included in a regularly updated Surface Water Comprehensive Plan.

STATUS: The Surface Water Comprehensive Plan was completed in 2003 and updated in 2013. Future updates are planned on a 7-year cycle with the next update in 2021.

MAINT. IMPACT:

COMMENT:

FINANCIAL (in \$000's)	Through		Estimated							BEYOND	TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024			
EXPENSES											
Design	163				200					363	
Land (R/W)										0	
Const. Mgmt.										0	
Construction										0	
TOTAL EXPENSES	163	0	0	0	200	0	0	0	0	363	
FUND SOURCES											
Awarded Grant										0	
Proposed Grant										0	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	163	0	0	0	200	0	0	0	0	363	
TOTAL SOURCES	163	0	0	0	200	0	0	0	0	363	



CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Tukwila Parkway/Gilliam Creek Surface Water Outfalls** Project No. 91241205

DESCRIPTION: Install a new 84" manhole structure on the existing 48" Andover Park W/Tukwila Parkway pipe and a 72" manhole structure on the 30" pipe west of Andover Park E/Tukwila Parkway and provide slide gates with discharge ports.

JUSTIFICATION: The existing 48" and 30" City stormwater pipes discharge to a 108" WSDOT pipe that conveys Gilliam Creek. The flow line of the WSDOT pipe is approximately 1.6 feet above that of the City pipes that discharge to it. This results in a backwater condition within the City pipes for several hundred feet and prevents inspection and cleaning of those pipes.

STATUS: Maintenance inspected system in 2015 and determined pipes are in adequate condition.

MAINT. IMPACT: After project completion, maintenance will be able to clean and inspect the pipes.

COMMENT: New manhole structures will include the slide gates which will control water flow during maintenance.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL	
EXPENSES											
Design							75			75	
Land (R/W)										0	
Const. Mgmt.								85		85	
Construction								325		325	
TOTAL EXPENSES	0	0	0	0	0	0	0	75	410	0	485
FUND SOURCES											
Awarded Grant										0	
Proposed Grant										0	
Mitigation Actual										0	
Mitigation Expected										0	
Utility Revenue	0	0	0	0	0	0	75	410	0	485	
TOTAL SOURCES	0	0	0	0	0	0	75	410	0	485	

