



2024-2029 Capital Improvement Program

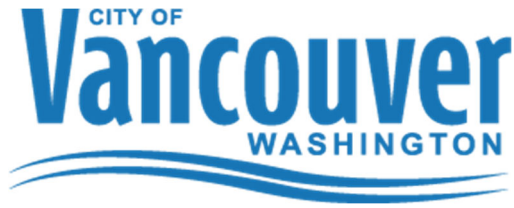
Water | Sewer | SCIP | Surface
October 2023



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2024-2029 Capital Improvement Plan (CIP) Water | Sewer | SCIP | Stormwater

Letter from the Public Works Department

Water is vital for our city's growth and livability. The City of Vancouver Public Works ensures our water system serves our community's needs now and for generations to come.

We manage our drinking water, wastewater, and surface water utilities. Each utility works within an integrated water system that protects our water resources. For example, the drinking water utility helps protect Vancouver's aquifers and provide safe, clean drinking water for the citizens of Vancouver. The wastewater utility collects and treats discharge from residential, commercial, and industrial users so that clean water can be reintroduced to the environment. The surface water utility helps protect greenways and manage and clean stormwater runoff. Protecting this system is the focus of our water resiliency strategy. Managed well, each utility supports the other through responsible asset renewal, strengthened system resilience, that together help ensure the overall livability of our city, see graphic below:



Maintaining this integrated water system is critical.

With the long-term maintenance of and investment in our infrastructure, we are better able to meet the demands of a growing community, comply with new regulatory guidelines, protect our natural surroundings, and maintain services following seismic events.

We take care of what we have.

We know our drinking water, wastewater, and surface water systems are facing challenges. Some of our infrastructure has reached the end of its useful life and needs replacement or rehabilitation. We also face increasingly stringent regulatory requirements, operational challenges, and opportunities to improve community livability, equity, and social justice. Climate change, security, and seismic hazards present additional threats to system safety and service reliability.

Applying a balanced approach to fund the current and future needs of our integrated water system will enable us to overcome these challenges. By actively managing our water systems, we protect the assets that serve us all and keep services affordable for everyone.

Through our 2024-2029 Water, Sewer, and Stormwater Capital Improvement Plan, we have identified projects that will support the ongoing maintenance and upgrades to our existing infrastructure over the next six years. Central to the Water Resiliency Framework developed in 2021 to prioritize investments around these systems, these improvement efforts will help reach the following goals:

- Protect and improve water and air quality for better public health and environmental protection.
- Provide capacity to support economic prosperity.
- Protect and improve natural areas and community livability.
- Reduce flooding, seismic, and security risks.
- Replace aging infrastructure.
- Identify more sustainable uses of wastewater and water resources.

To help pay for these significant investments, staff will continue to work with City Council in future biennium to implement agreed upon funding strategies including incremental annual rate increases, utilizing debt when it makes sense, ensuring system development charges are appropriate, and reducing the outside city rate multiplier from 1.5 to 1.25 over a 15-year period.

Our future depends upon our ability to invest in our utilities in a way that enhances and preserves the livability, safety, economic, and environmental well-being of our city. As we navigate the challenges ahead, we will continue to seek out innovations and opportunities that will support our thriving community now and for future generations to come.

Highlights of the 2024-2029 Capital Improvement Plan are shown in the table that follows.

Lon Pluckhahn,
Deputy City Manager
Interim Public Works Director

2024-2029



Key drinking water projects/efforts:

- Replacement of Water Station 5 ground-level reservoir, including upgrades to emergency power systems and booster pumping systems.
- Capital programs focused on rehabilitation and/or replacement of worn and obsolete water treatment facilities. This includes several chlorine disinfection system upgrades to state-of-the-art sodium hypochlorite disinfection technology.
- Ongoing upgrade and replacement of water mains throughout the distribution system that have been identified as high risk and/or high maintenance.
- Production well replacement projects at multiple water stations to improve reliability.
- Ongoing installation of transmission mains to move water from high production sources to areas of development.
- Electrical equipment replacement at water production stations.
- Preparation and implementation of new federal requirements pertaining to Per-Polyfluoroalkyl Substances (PFAS) including installation of treatment systems and new wells drilled into a deeper, uncontaminated aquifer.



Key wastewater projects/efforts:

- Ongoing, multi-phased project to replace the SCADA technology network for enhanced monitoring and operation of collection system pump stations and wastewater treatment plants.
- Replacement of aging electrical equipment for site power supply and emergency power switchgear at the Westside Treatment Plant.
- Prepare for multiple projects that will improve, expand, and manage solids conveyance/treatment needs at Marine Park and Westside treatment plants.
- Upgrade / replacement of wastewater effluent ultraviolet disinfection system at Marine Park treatment plant.
- Upgrade / replacement of wastewater influent screens at Marine Park treatment plant.
- Upgrade of secondary treatment processes at Marine Park treatment plant
- Continued projects to completely rehabilitate or replace sections of the collection system's large-diameter interceptor piping.
- Ongoing individual projects within the Sewer Connection Incentive Program (SCIP) bringing reliable sewer service to 2,097 more homes.
- Ongoing rehabilitation or replacement of sewer mains throughout the collection system that have been identified as high risk and/or high maintenance.



Key stormwater projects/efforts:

- Ongoing efforts using limited available capital funds to leverage grants to address stormwater quality and quantity issues throughout Vancouver.
- Capital projects involving regulatory compliance and replacement of substandard systems.
- Improvements to the Burnt Bridge Creek watershed.
- Implementation of new requirements and programs, as required by implementation timelines in the City's August 2024 Stormwater National Pollutant Discharge Elimination System (NPDES) permit.
- Evaluation of existing systems to determine and prioritize rehabilitation or replacement of needs.

Comprehensive Plan Policies for Water, Sewer, and Surface Water (Adopted Nov. 7, 2011)

- PFS-1. SERVICE AVAILABILITY (ALL UTILITIES): Consider water, sewer, police, transportation, fire, schools, storm water management and parks as necessary public facilities and services. Ensure that facilities are sufficient to support planned development.
- PFS-2. SERVICE STANDARDS (ALL UTILITIES): Establish service standards or planning assumptions for estimating needed public facilities, based on service capabilities, local land use designations and nationally recognized standards.
- PFS-21. WASTEWATER RECLAMATION: Eliminate health hazards from domestic and industrial wastewater and return clean water to the environment.
- PFS-22. SEWER SERVICE: Provide sewers and sewer service to every Vancouver home, business, and industry at an affordable and equitable cost. Discourage development that includes on-site sewage treatment systems. Encourage existing development using septic systems to connect to public sewer as soon as available. Ensure that the infrastructure to support sewer service is in place prior to or at the time of development.
- PFS-23. WATER SERVICE: Provide safe, clean, quality drinking water to every Vancouver home, business, and industry. Discourage development that includes private drinking water wells. Provide water pressures and volumes necessary to support fire suppression hydrants and sprinkler systems. Ensure that the infrastructure to support water service is in place prior to or at the time of development.
- PFS-24. SEWER AND WATER SERVICE EXTENSION: Public sewer and water service should not be extended outside the Vancouver urban growth area except to (a) Remedy a threat to public health or safety. (b) Remedy a threat to water resources, (c) Provide service to uses within the urban reserve district otherwise required to be served (d) Support development envisioned in a jurisdiction's comprehensive plan (e) Water service may be extended if it is consistent with the Clark County Coordinated Water System Plan and does not increase density beyond the adopted Comprehensive Plan. The existence or extension of sewer or water service should not be used to justify changes to the Comprehensive Plan.
- PFS-25. SURFACE WATER MANAGEMENT: Manage storm water to safely pass floodwaters, maintain and improve water quality of receiving streams, lakes, and wetlands, protect and enhance fish and wildlife habitat, promote recreational opportunities, and enhance community aesthetics.

Comprehensive Plan Policy for Asset Management (Adopted Dec. 16, 2013)

- PFS-35 City public facility assets shall be systematically managed to balance full life cycle costs, performance, risk, and service levels, using best management practices and data.

Financial Policies for Capital Planning and Asset Management (Adopted Nov. 21, 2022)

1. In pursuit of an asset management strategy that prioritizes safety, equity and climate action, the City will:
 - Consider the climate impacts of asset investments and pursue asset management strategies that reduce its contribution to climate change over time.
 - Consider equity impacts of capital projects and asset management strategies and prioritize investments that improve equity within the City.
 - Consider the potential improvements to community safety associated with capital investments and prioritize investments that improve community safety, particularly in the transportation system.
2. Asset management best practice involves managing the performance, risk and expenditures on infrastructure assets in an optimal and sustainable manner throughout their lifecycle covering planning, design, construction, operation, maintenance, and disposal. The City shall integrate the principles and best principles and best practices of asset management such as those embodied International Infrastructure Management Manual in the management of its assets. Asset inventory will be maintained with maintenance, repair and referred maintenance costs identified and updated on an annual basis. Maintenance of city assets shall be addressed on a current need, rather than deferred into the future.
3. In 2015, Council adopted a new **Street Funding Program** in response to formal recommendations from a citizen-led effort. Revenues from this program were established to supplement without supplanting street funding resources identified in the 2015-2016 Adopted Biennial Budget. Annual reporting to Council and the residents of outcomes achieved through the Street Funding Initiatives Program has been initiated in 2017 and shall continue into the future.

The City will remain funding the Pavement Management Program at not less than that in the 2015-2016 Biennial Adopted Budget level increased by an appropriate inflationary factor, if necessary. To ensure accountability and transparency, the increase in program level funded by the new Street Funding Program revenue sources will be fully costed, budgeted for and spent from special funds created to track direct operating, capital and administrative expenses. Annual reporting of the outcomes will be published for the residents and the City Council prior to the end of the first quarter of each year for the prior year beginning for fiscal year 2016.

4. The City will redirect to the new Street Funding Program expiring debt service budget from pre-2015 debt issues for transportation projects, beginning with debt expiring in 2016.
5. A **six-year City-Wide Capital Improvement Program** shall be developed annually and shall provide a prioritized list of reasonably funded projects and those in process of securing funding. Capital Improvement Plans for utility assets shall be updated no less frequently than every two years. The comprehensive plan will identify longer-term capital needs by program area.
6. Funding for capital projects, including major facilities maintenance projects, will be allocated in a manner that balances community needs with City priorities, the potential for attracting matching funds, and the ability to reduce or limit expenses in future years.
7. The City's objective is to incorporate a "**pay-as-you-go**" approach (using available cash and current resources) in the Capital Improvement program. Proceeds from the sale of city capital assets no longer utilized in operations will be deposited consistent with the initial ownership of the asset and invested in the highest priority city capital projects. Debt funding shall be considered for large capital projects with long useful life to better reflect inter-generational equity.
8. The capital budget will be adopted at the same time the City operating budget is adopted. The capital budget will only include fully funded projects. The capital budget will only contain projects identified in the Capital Improvement Program.
9. A **capital repair appropriation** will be maintained for unanticipated major repairs of general operating facilities and for emergency replacement of general fund equipment. Additions to the capital repair contingency reserve will be made based on Council directions.
10. **Impacts on net annual operating and maintenance costs** will be identified as part of the funding considerations for new capital projects such as buildings, parks and street enhancements. This includes identifying potential reductions in maintenance costs if improvements are funded. The necessary funds to operate the capital facility will be identified at the time the capital budget is adopted.
11. In order to provide long-term sustainable utility services, the city will structure utility rates so that system reinvestment including major repair, rehabilitation and replacement of utility assets can be fully funded on an ongoing basis in accordance with the city's 'pay as you go' policy. This will be achieved through a plan of smaller incremental rate increases to maintain affordability. As identified by the utility capital improvement plan, rates will also include an investment component for capacity improvements and system expansion.
12. A **system development reserve** will be maintained to fund growth related capital costs. All systems development charge revenue will be contributed to the fund.



UTILITY FUNDING NARRATIVE

Each of the utilities has five components to their funding structure: Revenue, Expenses, Reserves, Debt, and Assets. In broad terms, Revenue is the money brought into the utility, Expenses are the moneys going out of the utility, Reserves are the moneys set aside for emergencies or capital work, Debt is the money owed on loans, and Assets are the value of the infrastructure/facilities and money held by the utility. Below is a general description of each component for the respective utilities.

Water

- Revenues consist of: Ratepayer revenue, System Development Charges (SDC), Grants, and miscellaneous revenue.
- Expenses consist of: Operations and maintenance activities, Taxes and fees, Loans made to other utilities, Debt service, and Capital improvements.
- Reserves consist of: Debt service reserve, Capital emergency reserve, Water construction reserve, Sewer Connection Incentive Program (SCIP) reserve.
- Debt consists of: Revenue bonds for capital improvements
- Assets consist of: Pipes and appurtenances, Water stations, Wells, Water rights, Real property/Easements, Distribution pumps, Operations and maintenance equipment, and cash.

Sewer

- Revenues consist of: Ratepayer revenue, System Development Charges (SDC), Loans, and miscellaneous revenue.
- Expenses consist of: Operations and maintenance activities, Taxes and fees, Debt service, and Capital improvements.
- Reserves consist of: Debt service reserve, Capital emergency reserve, Sewer construction reserve.
- Debt consists of: Revenue bonds for capital improvements, long-term Interfund loan from water.
- Assets consist of: Pipes and appurtenances, Pump stations, Wastewater treatment facilities, Real property/Easements, Operations and maintenance equipment, and cash.

Surface Water

- Revenues consist of: Ratepayer revenue, Loans, Grants, and miscellaneous revenue.
- Expenses consist of: Operations and maintenance activities, Taxes and fees, and Capital improvements.
- Reserves consist of: Surface water construction reserve.
- Debt consists of: State Revolving Loan (SRL) for capital improvements.
- Assets consist of: Treatment facilities, Conveyance facilities, Flow control facilities, Real property/Easements, Operations and maintenance equipment, and cash.

CAPITAL PROJECT JUSTIFICATIONS

Each utility works on capital projects that can be lumped into five broad categories: Regulatory compliance, improved safety, new systems, replace/preserve/rehabilitate systems, or lower operating costs. Regulatory compliance projects include capital work done in order to comply with new State or Federal requirements. Improved safety projects are capital projects undertaken in order to improve the public safety and welfare. New systems capital projects are undertaken in order to increase capacity or facilitate growth. Replace/preserve/rehabilitate system capital projects are undertaken in order to replace old infrastructure or prolong existing infrastructure's effective life. Lower operating costs projects include capital work done in order to increase efficiencies or to otherwise reduce operating costs. Many projects will overlap categories, but these five categories provide the justification for why most public works capital projects are undertaken. Below are examples of the types of projects that can be found in each category for the respective utilities.

Water

- (1)-Regulatory compliance: State (DOH) and Federal (EPA) projects.
- (2)-Improved safety: Fire flow improvements, seismic upgrades, and chemical system upgrades.
- (3)-New systems: Wells, pumps, treatment systems, controls, storage, and mains.
- (4)-Replace/preserve/rehabilitate systems: Wells, pumps, treatment systems, controls, storage, substandard and leaking mains.
- (5)-Lower operating costs: Water station upgrades and pump replacement.

Sewer

- (1)-Regulatory compliance: NPDES permit compliance for discharge to Columbia River and air permits for emissions from treatment plant processes.
- (2)-Improved safety: Groundwater protection improvements and Sewer Connection Incentive Program (SCIP).
- (3)-New systems: New trunk/interceptor/service mains and new pump stations.
- (4)-Replace/preserve/rehabilitate systems: Trenchless Repair projects and pump station replacements.
- (5)-Lower operating costs: Treatment plant upgrades and pump replacement.

Surface Water

- (1)-Regulatory compliance: NPDES compliance projects and Underground Injection Control (UIC) retrofit.
- (2)-Improved safety: Flooding mitigation and groundwater protection improvements.
- (3)-New systems: New treatment, conveyance, or flow control improvements.
- (4)-Replace/preserve/rehabilitate systems: Swale retrofits and drywell relocation projects.
- (5)-Lower operating costs: Swale retrofits and flow control retrofits.

Water Utility



Water Utility Recent Financial History





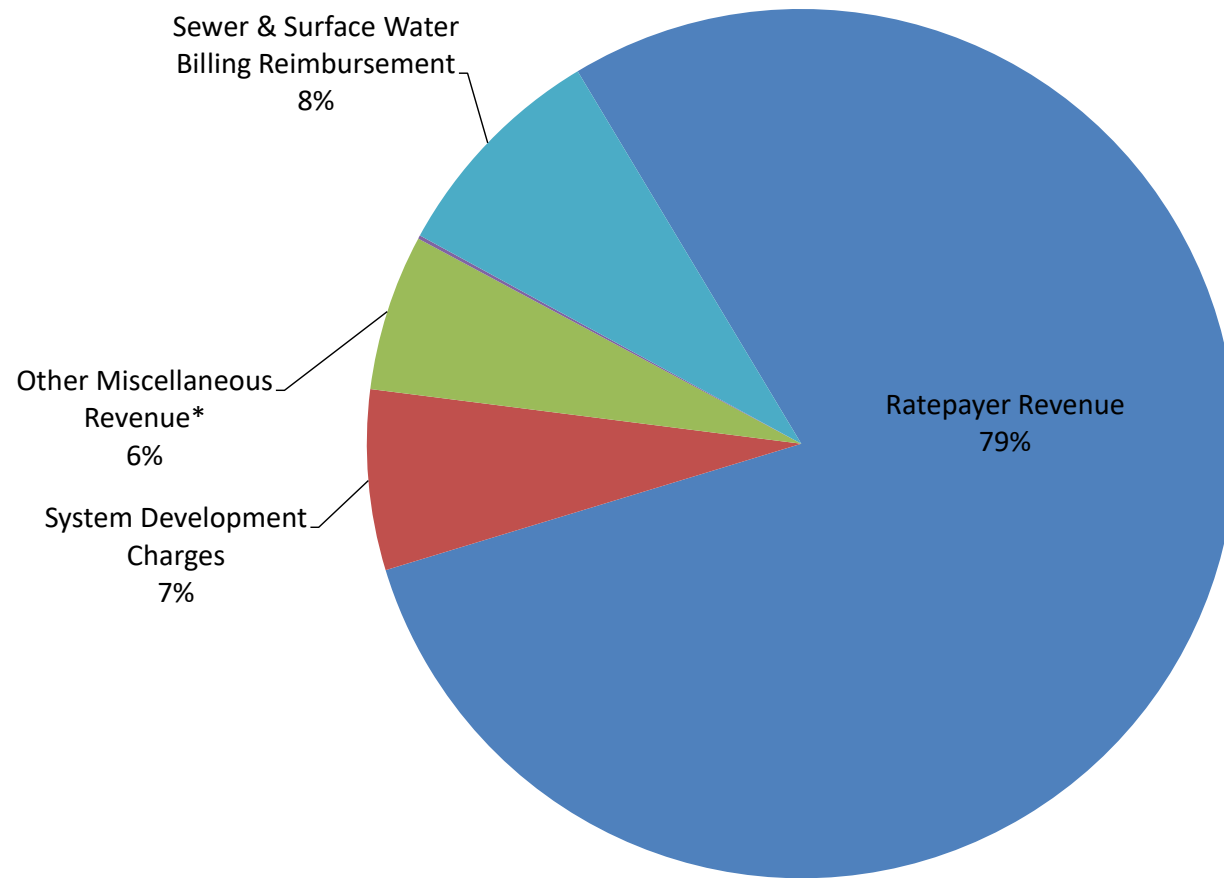
WATER FUND ACTIVITY (2017-2022)

	2017	2018	2019	2020	2021	2022
Revenue						
Ratepayer Revenue	33,943,175	36,637,725	38,051,995	41,604,155	47,150,352	47,628,215
System Development Charges	3,300,742	4,411,287	3,800,001	4,138,992	4,895,825	4,044,753
Grants	68,204	64,675	75,219	768,242	187,928	77,371
Sewer & Surface Water Revenue	2,698,260	2,871,236	3,092,379	3,112,000	4,997,641	5,093,805
Other Miscellaneous Revenue*	5,374,457	5,597,457	5,989,609	3,432,081	2,098,869	3,511,984
Total Revenue	45,384,838	49,582,380	51,009,203	53,055,470	59,330,615	60,356,128
Expenses						
Salaries & Benefits	10,888,560	11,290,218	12,675,345	12,226,939	12,560,329	12,238,153
Supplies and Services	3,964,448	3,693,620	4,207,110	3,297,002	3,417,976	3,964,573
Professional Services	1,256,302	1,525,793	993,381	910,354	1,089,377	1,402,080
Electrical	1,602,216	1,565,038	1,561,398	1,597,120	1,620,114	1,634,919
Indirects and ER&R	5,099,613	5,487,922	6,276,554	6,296,152	6,115,163	7,067,079
Operations & Maintenance Expenses	22,811,139	23,562,591	25,713,788	24,327,567	24,802,959	26,306,804
Taxes and Fees	10,274,352	11,294,200	12,658,148	14,249,776	15,980,084	16,174,695
Debt Service	104,040	99,705	-	-	-	-
Loans to the Sewer Fund			-	-	-	-
Capital Construction Expenses	13,154,853	9,941,874	11,892,737	19,757,285	15,192,296	19,452,683
Expenses Subtotal	46,344,384	44,898,370	50,264,673	58,334,628	55,975,339	61,934,182
Depreciation	4,811,167	4,983,157	6,571,456	6,571,456	6,135,719	6,357,864
Total Expenses	51,155,551	49,881,527	56,836,129	64,906,084	62,111,058	68,292,046

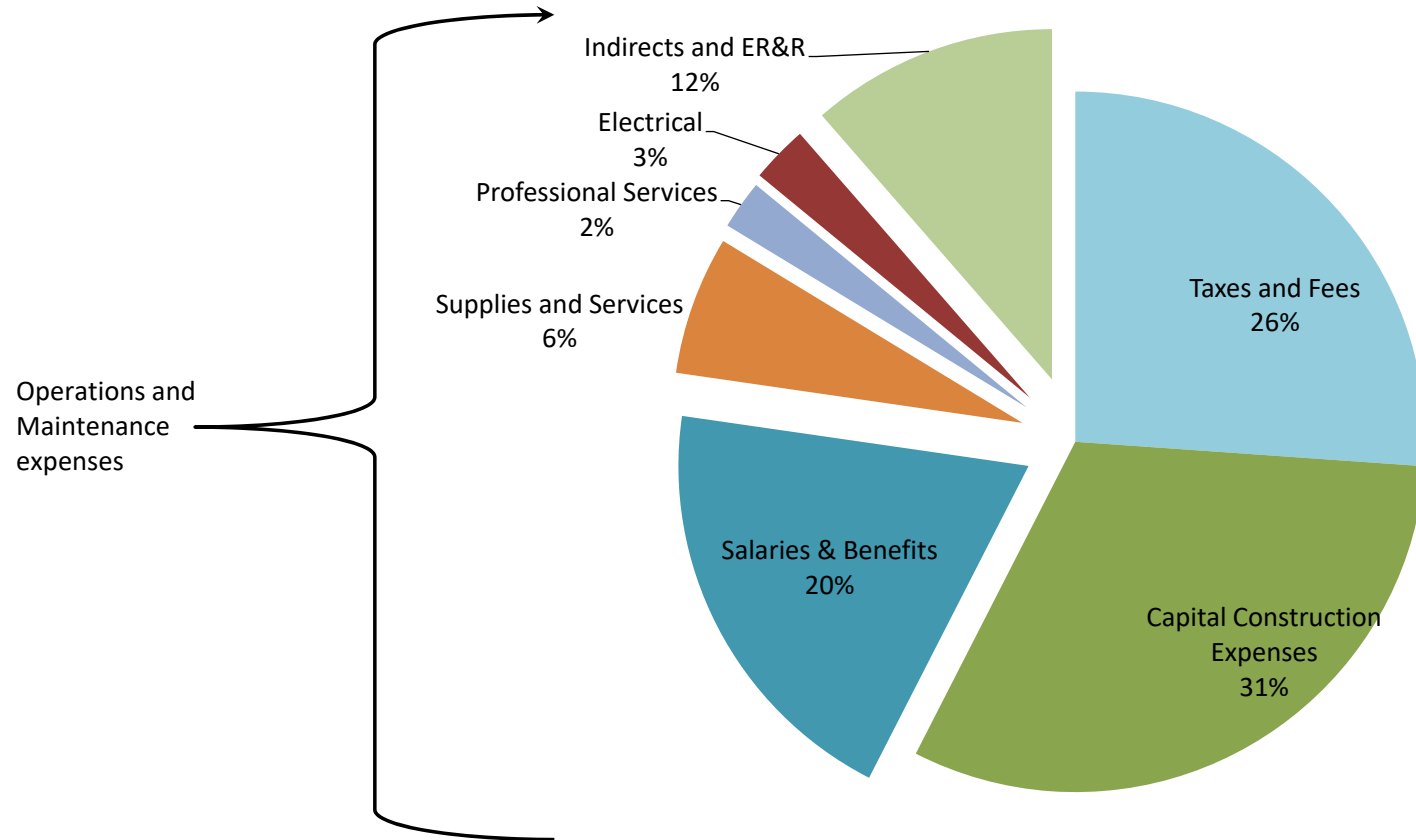
*Other Miscellaneous Revenues include items such as:

- Misc Fines & Penalties
- Interest Earnings
- Interfund Rents
- Service Installations
- Latecomer Fees
- Interfund Transfers
- Proceeds from Refunded Debt

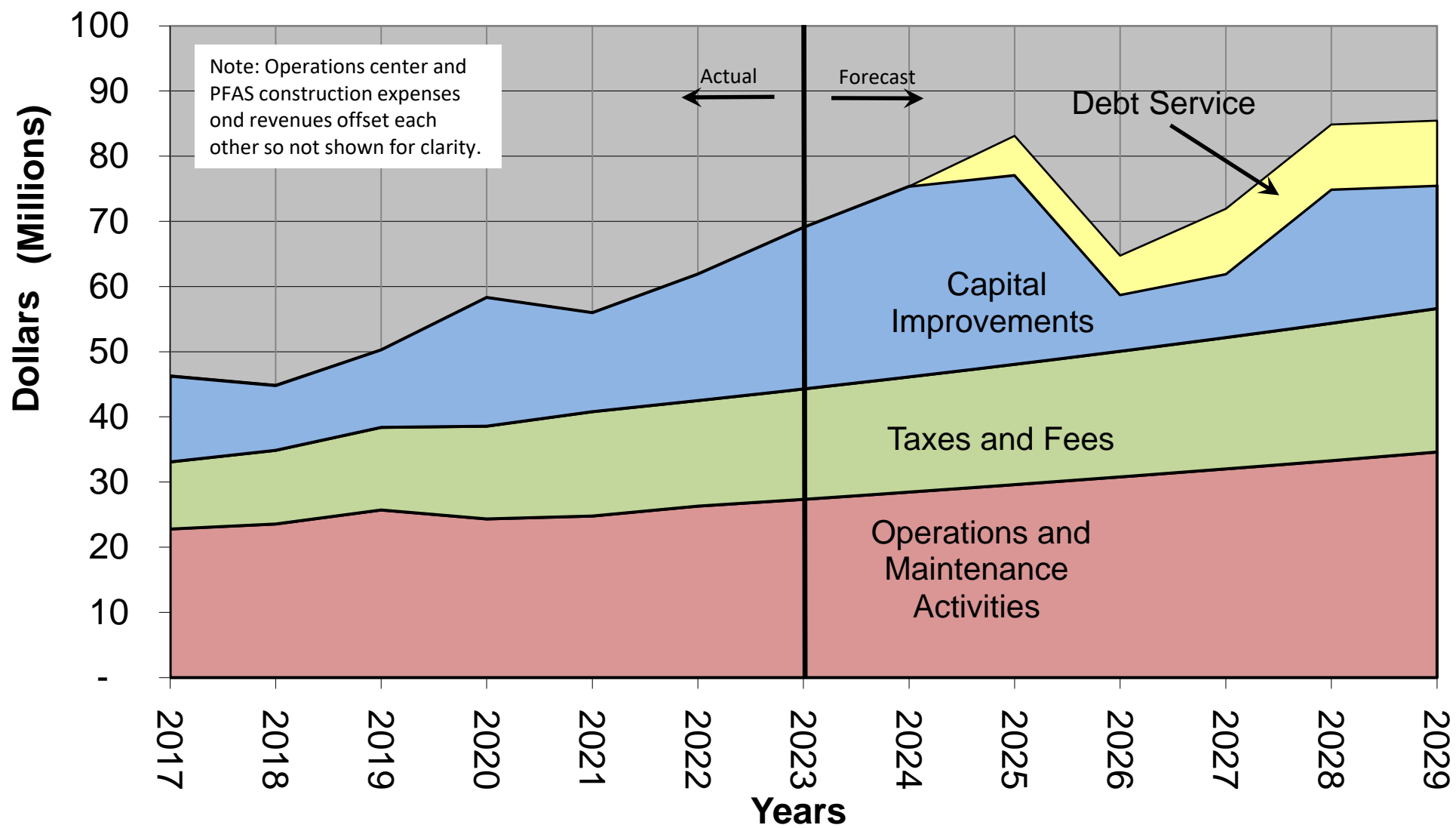
2022 Water Utility Revenues = \$60.4 million



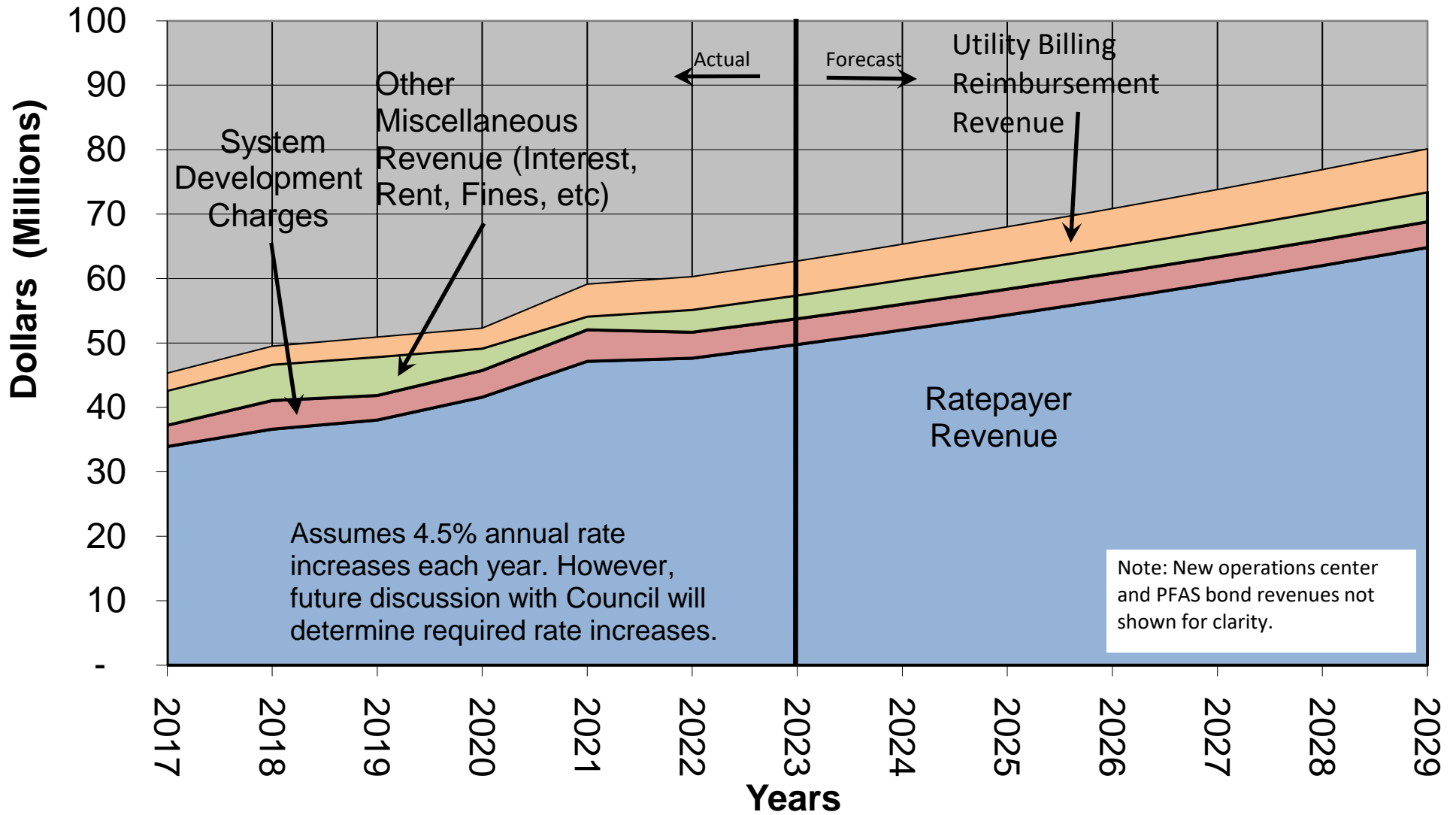
2022 Water Utility Expenses = \$61.9 million



Water Expenses (2017-2029)



Water Revenues (2017-2029)



Water Utility Project List



Water Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2022-2027) to this year's 6-year project list (2024-2029). The changes are segmented by: projects added, projects removed and other.

Projects Added	CIP Number	Comments
Water Production:		
Study for Adding a 4 th Pump at St. Johns WS 1	WTR-174	New
PFAS Studies	WTR-170	New
Heights High Groundwater Development	WTR-173	New
WS 1 Wellhouse 11-13 Roof Replacement	WTR-171	New
WS 14 PFAS Treatment System	WTR-18	New
Water Distribution:		
Main St Water – 5 th to 15 th	WTR-169	New
Heights District Redevelopment	WTR-185	New
NE 30 th Ave at 45 th St Main	WTR-178	New
NE 33 rd Ave at 85 th St Main	WTR-179	New
NE 122 nd Ave & 44 th St Main	WTR-188	New
Alki Rd SCIP Coord	WTR186	New
192 nd Ave Transpo SE 1 st to 18 th	WTR-1031	New
Water Transmission:		
99 th St – 140 th Ct to 152 nd Ave and 152 nd Ave – Padden to Ward (T-33)	WTR-1064	New
Other:		
Operations Center Redevelopment	WTR-180	New
Operations Center Construction	WTR-181	New
2023-2024 Hydrant Repair and Replacement Project	WTR-183	New
Blandford (T-51) Options Modeling	WTR-1033	New

Projects Removed	CIP Number	Comments
Water Production:		
WS 1 – Two 4 MG Reservoirs & Standpipe	WTR-39	Completed in 2022
WS 7 Internal Tower Coating	WTR-108	Completed in 2022
VL Rezone South of WS 1	WTR-143	Completed in 2023
WS 3 Replace Wells 1 & 2 with one well	WTR-54	Combined with WTR-53/PRJ100492
Rezone Project for Vanc Low and Vanc High	WTR-A1-114	Decided not to pursue
NE 45 th St Booster Pump Station Replace	WTR-146	Combined with WTR-53/PRJ100492
WS 7 Hypo Gen System	WTR-103	Completed in 2023
Sodium Hypo Gen System Ellsworth	WTR-64	Completed in 2023
Ellsworth Roof Replacement	WTR-160	Completed in 2023
Water Distribution:		
52 nd St – Daniels to Columbia (D-06)	WTR-152	Completed in 2023
NW Lavina St & 42 nd St	WTR-157	Completed in 2022
SR 500/I-5 Interchange (move 24")	WTR-49	Decided not to pursue
NE 46 th St at NE 28 th Ave (#20)	WTR-159	Completed in 2023
17 th St. to McLoughlin Blvd., F St. to 1-5 (D-3)	WTR-115	Completed in 2023
Water Main NE 49 th St – NE 15 th Ave to 40 th Ave	WTR-36	Completed in 2023
Lower Grand Industrial Area	WTR-163	Completed in 2023
Broadway St – Ph 1 (13 th to 17 th St)	PRJ083556/ WTR-150	Completed in 2021

Broadway St – Ph 2 (6 th to 13 th St)	PRJ100590/WTR-150	Completed in 2023
99 th St Extension, 94 th Ave to 104 th Ave County	WTR-109	Completed in 2023
Water Transmission:		
Haagen Park, north of 9 th St (T-37)	WTR-128	Combined with PRJ100778
Other:		
O & M Program Electronic Manual	WTR-A1-112	Decided not to pursue
SCADA Firewall/Security/Data Consent/PLC Software	WTR-A1-29	Completed in 2023

Other Changes	CIP Number	Comments
Water Production:		
None		
Water Distribution:		
152 nd Ave Transmission Main – Ward Rd 99 th St (T-33)	WTR-96	Changed name to reflect project more accurately
Water Transmission:		
None		

Note: “Completed” indicates already completed as of the date of this document or anticipated completion prior to January 1, 2024.

6 YEAR CAPITAL IMPROVEMENT PROGRAM FOR WATER (2024-2029)

Note: All costs are in 2023 dollars
Updated August 2023

Description	Project Number	CIP #	Spent to Date (Start thru 2022)	2023**	2024	2025	2026	2027	2028	2029	6 Year Total
448 Water Construction Fund											
Water Production Projects											
Ellsworth Well Rehabilitation	PRJ100772	WTR-16			300,000						300,000
Water Station 8 Replace Wells 2 & 3	TBD	WTR-68							1,300,000	1,300,000	2,600,000
WS 5 Reservoir, Pump, E-Power	PRJ100238	WTR-101	13,672,153	15,949,125	2,500,000						2,500,000
WS 8 Hypo Gen System	PRJ100239	WTR-104	244	600,000	200,000						200,000
WS 15 Hypo Gen System	PRJ100495	WTR-63		200,000	800,000						800,000
Water Station 1: Replace Wells 3, 4, and 5	PRJ100490	WTR-44	34,082	1,500,000	2,000,000						2,000,000
Water Station 3 Reservoir/Tower/Booster Replace	PRJ100492	WTR-53		1,175,000					13,000,000	9,000,000	22,000,000
Sodium Hypo Gen System WS 4	TBD	WTR-145		200,000	1,000,000						1,000,000
Study for Adding a 4th Pump at St. Johns WS 1	TBD	WTR-174					10,000				10,000
Water Station 15 Wells 1-4 Replacement	TBD	WTR-65				3,500,000	2,000,000				5,500,000
Water Station 7 Greensand	TBD	WTR-154					300,000				300,000
Water Station 4 Well 4 Building Replacement	PRJ100240	WTR-67		80,905	600,000						600,000
WS 5 Internal Tower Coating	PRJ100241	WTR-106			230,000	400,000					630,000
Ellsworth Well Replacement	TBD	WTR-156						5,400,000			5,400,000
PFAS Studies	PRJ100640	WTR-167	497,578	149,723	1,500,000						1,500,000
PFAS Treatment	TBD	WTR-170				20,000,000	30,000,000	30,000,000	30,000,000	30,000,000	140,000,000
System MCC Electrical Upgrades	TBD	WTR-166								3,000,000	3,000,000
Heights High Groundwater Development Water Rights	PRJ100656	WTR-173	61,412	139,791	50,000						50,000
WS 1 Wellhouse 11-13 Roof Replacement	TBD	WTR-171			120,000						120,000
WS 14 PFAS Treatment System	PRJ100893	WTR-182			1,100,000	14,600,000					15,700,000
SCADA Projects											
SCADA PLC Hardware Upgrade	PRJ100504	WTR-A1-29	5,626	104,000	31,000						31,000
SCADA Software/HMI Hardware	PRJ100775	WTR-A1-29			16,000	216,000	23,000	204,000			459,000
Water Distribution Projects											
PRV Flowmeters/SCADA System Connections	PRJ083332	WTR-A1-12	1,974	60,000	60,000						60,000
Water Demand Response	PRJ083553	WTR-A1-27		300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,800,000
152nd Ave Transmission Main - Ward Rd 99th St (T-33)	PRJ100722	WTR-96	14,289	70,000	2,700,000						2,700,000
Leak Abatement	PRJ100244	WTR-A1-3				600,000	1,000,000	1,000,000	1,600,000	1,600,000	5,800,000
SCIP Coordination Projects	PRJ083563	WTR-A1-10			75,000	100,000	100,000				275,000
SE 1st St - Transpo Coord - 164th Ave to 192nd Ave	PRJ100270	WTR-153	1,335		375,000						375,000
Jefferson St Realignment	TBD	WTR-161		10,000	160,000						160,000
Main St Water - 5th to 15th"	PRJ100723	WTR-169	733	30,000	620,000						620,000
Heights District Redevelopment	PRJ100713	WTR-185		652,065		2,000,000					2,000,000
NE 30th Ave at 45th St Main	PRJ100887	WTR-178			50,000						50,000
NE 33rd Ave at 58th St Main	PRJ100888	WTR-179			90,000						90,000
NE 122nd Ave & 44th St Main	PRJ100882	WTR-188		140,000	460,000	395,000					855,000
Alki Rd SCIP Coord	PRJ100887	WTR-186		100,000	25,000						25,000
192nd Ave Transpo SE 1st to 18th	TBD	WTR-1031							900,000		900,000
Other Water Projects											
Water System Plan	TBD	WTR-A1-19			50,000	300,000	300,000				650,000
Operations Center Redevelopment	PRJ083491	WTR-180		1,800,000	2,760,000						2,760,000
Operations Center Construction	TBD	WTR-181				75,000,000					75,000,000
2023-2024 Hydrant Repair and Replacement Project	PRJ100798	WTR-183			260,000						260,000
New Projects Master Plan Distribution											
Blandford (T-51) Options Modelling	TBD	WTR-1033			20,000						20,000
New Projects Master Plan Transmission											
Transmission Main - Burton Rd (T-34)	TBD	WTR-6				200,000	3,700,000				3,900,000
9th St. to 18th St., 112th Ave. to 129th Ave. (T-36)	PRJ100778	WTR-127		200,000	5,300,000						6,000,000
Chkalov Dr., south of Mill Plain Blvd. (T-45)	TBD	WTR-129				915,000					915,000
Mill Plain Blvd. - 124th Ave. to 131st Ave. (T-46)	PRJ100779	WTR-130			825,000	675,000					1,500,000
BNSF 4th Plain (T-3)	PRJ100724	WTR-168		263,499	2,370,000						2,370,000
Lincoln to Main St Trans Main (T-4,5,6)	PRJ100499	WTR-165		1,100,000	700,000						700,000
99th St - 140th Ct to 152nd Ave and 152nd Ave Padden to Ward (T-33)	TBD	WTR-1064			485,000	2,000,000					2,485,000
WS 5 to Evergreen Trans Main Blandford (T-51)	TBD	WTR-120						1,500,000			1,500,000
Water Total				24,824,108	28,132,000	121,901,000	37,733,000	38,404,000	47,100,000	45,200,000	318,470,000

*Project timing is dependent upon the timing of the overriding project (e.g. TIP projects).

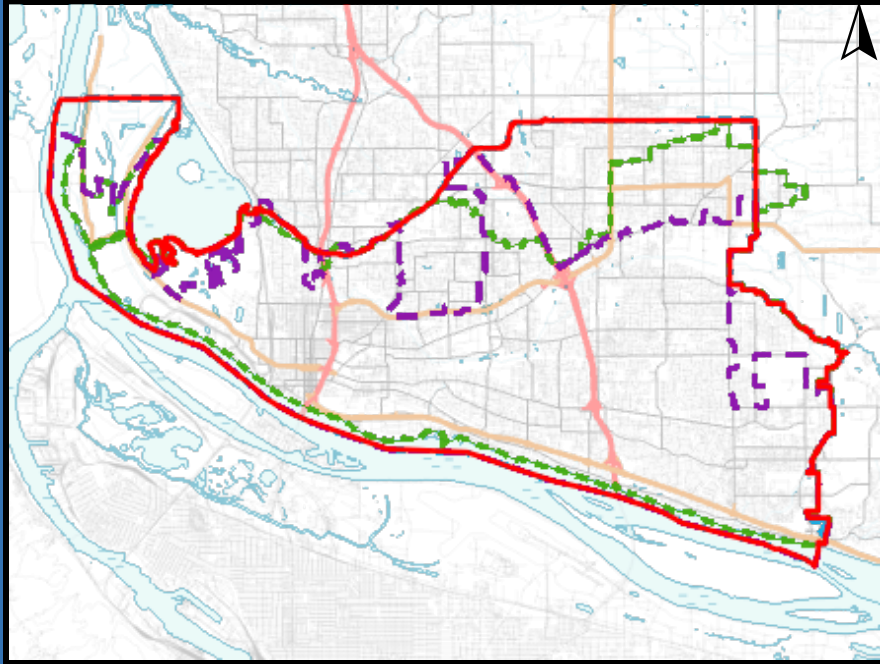
**2023 Amounts include revised delivery amount or actual spent in 2023 (as of August), whichever is higher.

Shading indicates not included in 6-year plan, but money expected to be spent in 2023

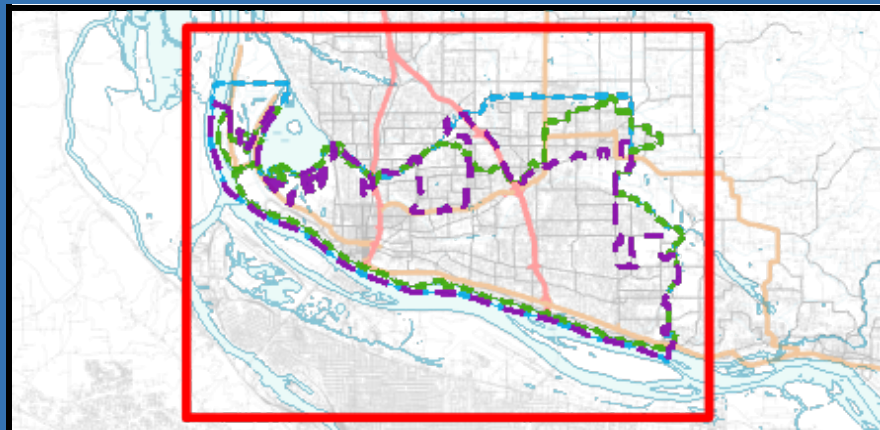
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Demand Response

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Funds for unexpected project that come up during the budget cycle.

Project Justification

4 - Replace/rehabilitate/preserve system. General Line Item for all Demand Response Projects. Funds are typically used to purchase parts for developers on oversize main installation projects. This project covers otherwise unscheduled work during roadway coordination, emergency work, or oversized mains associated with developments. Helps build needed improvements while roadways are under construction.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083553

Grant Funded:

Total Project Cost: \$300,000.00

***Start of Const.:** Ongoing, Cost per
(Year) year

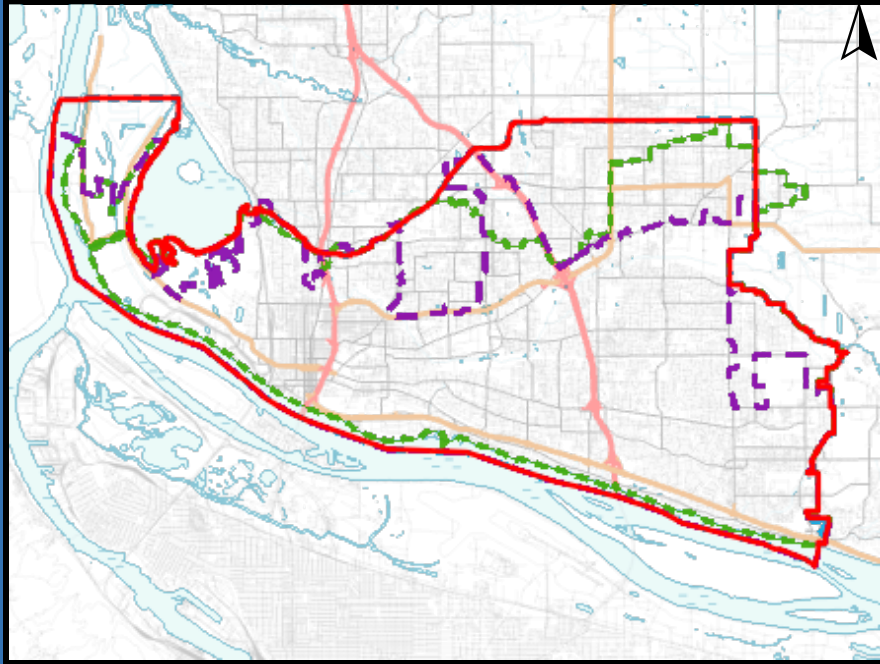
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

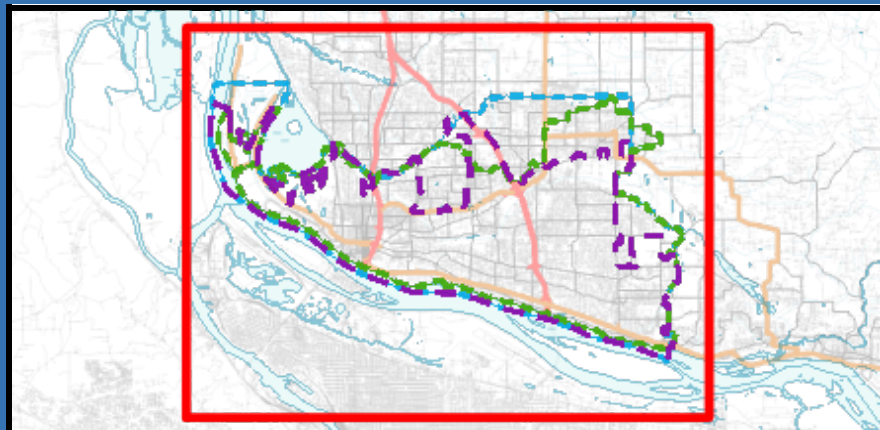
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Leak Abatement**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Program for unplanned repair of substandard leaking water main.

Project Justification

2 - Improve safety/reliability; 4 - Replace/preserve existing systems; and 5 - Lower Operating Costs - Contingency fund for emergency repairs.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100244

Grant Funded:

Total Project Cost: \$32,200,000.00

***Start of Const.:** 2025
(Year)

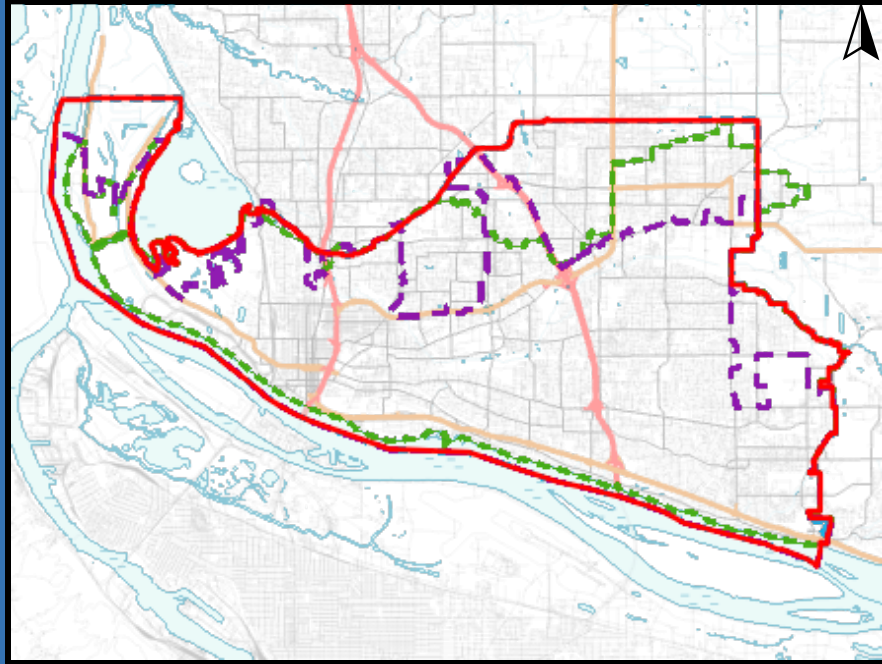
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

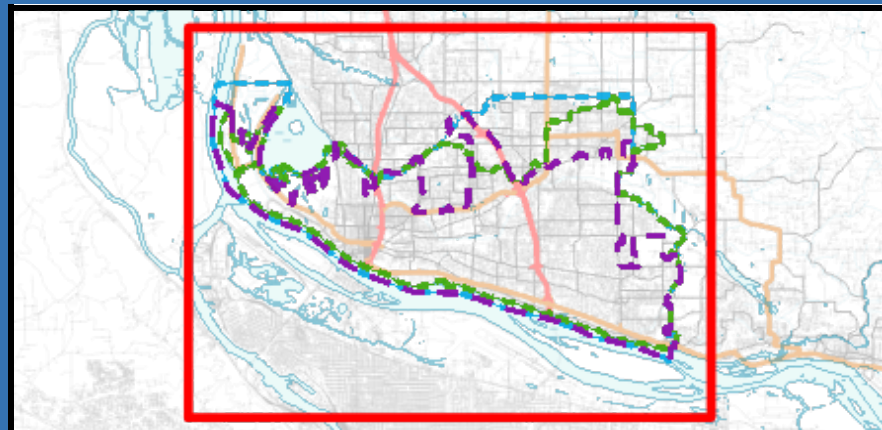
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SCIP Coordination Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION





Project Description

\$100,000/yr for coordination with Sewer Connection Incentive Program.

Project Justification

4 - Replace/preserve/rehabilitate aging main or substandard pipe materials in the distribution system. Projects replace aging main or substandard pipe materials in the distribution system, during scheduled SCIP projects.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083563

Grant Funded:

Total Project Cost: \$275,000.00

***Start of Const.:** 2024
(Year)

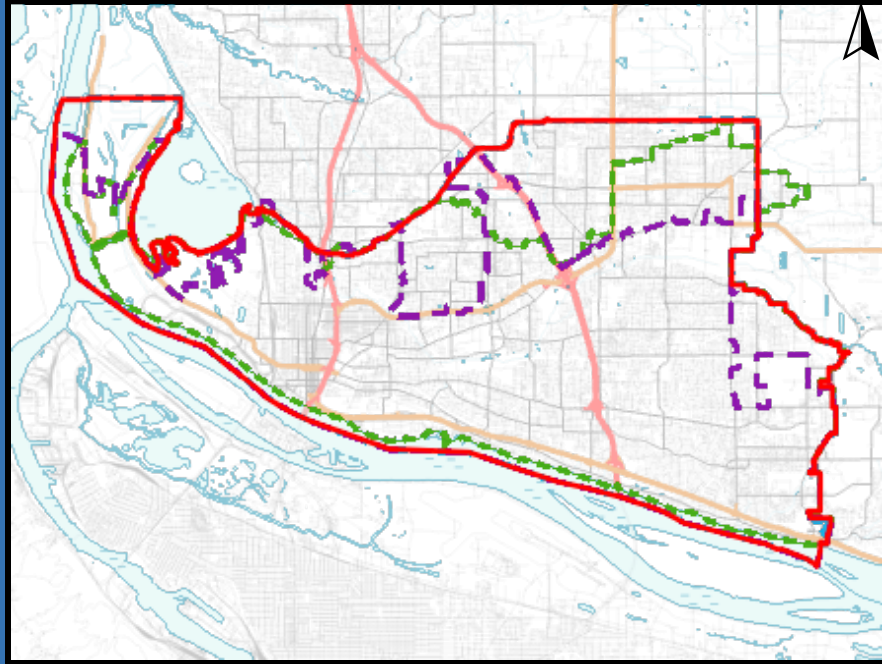
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

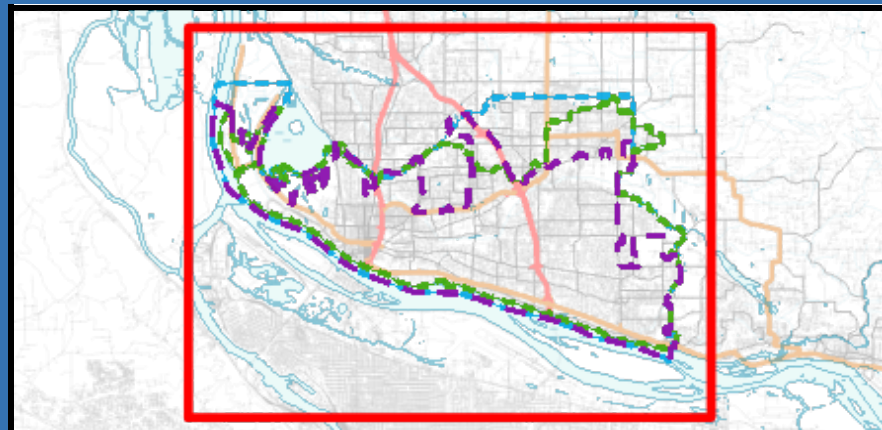
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **PRV Flowmeters/SCADA System Connections**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Provides SCADA system connection to support improved operations and system monitoring capabilities.

Project Justification

2 - Improve system safety by improving reliability of data collection throughout the water system. This upgrades our existing data collection capability for system operating pressures and flows, at all pressure reducing valves.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083332

Grant Funded:

Total Project Cost: \$122,000.00

***Start of Const.:** 2023
(Year)

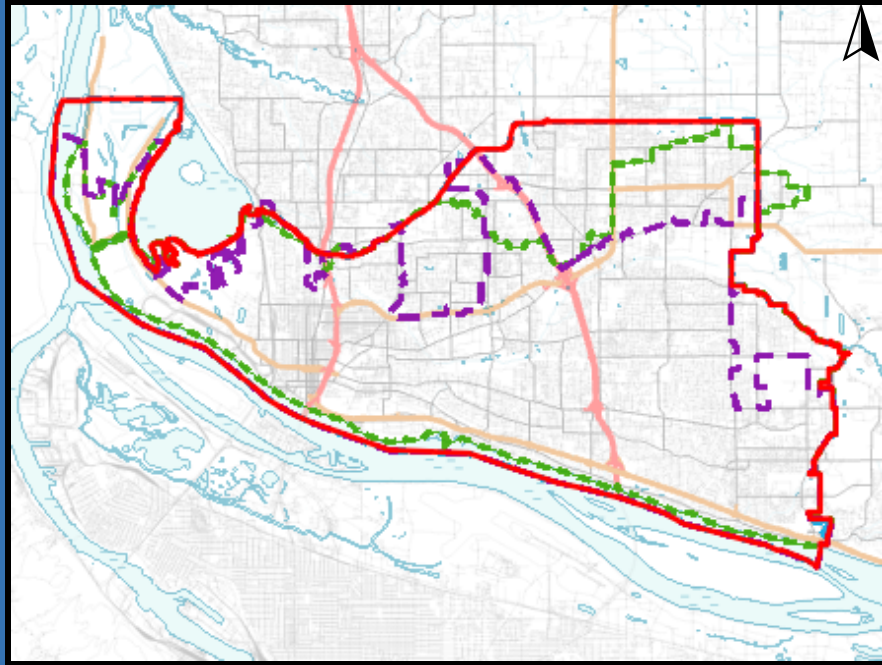
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

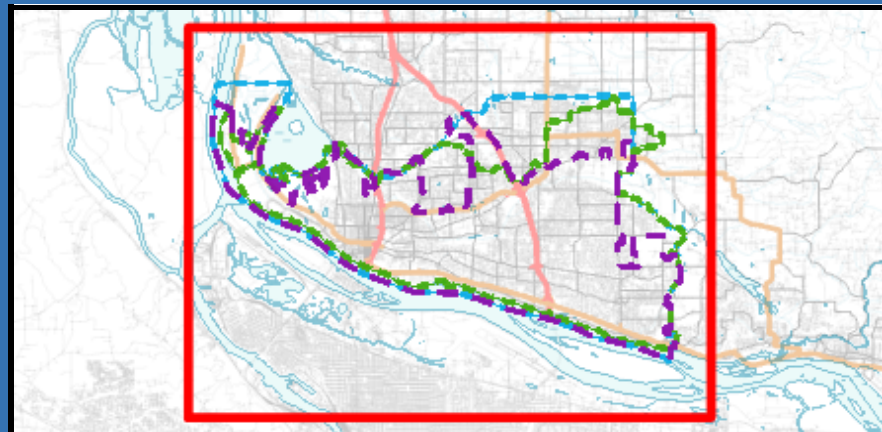
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Water System Plan**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Project provides an updated water system comprehensive plan, to meet State Department of Health comprehensive plan requirements

Project Justification

1 - Planning effort to determine overall and in-depth system needs in compliance with DOH requirements.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,100,000.00

***Start of Const.:** 2024
(Year)

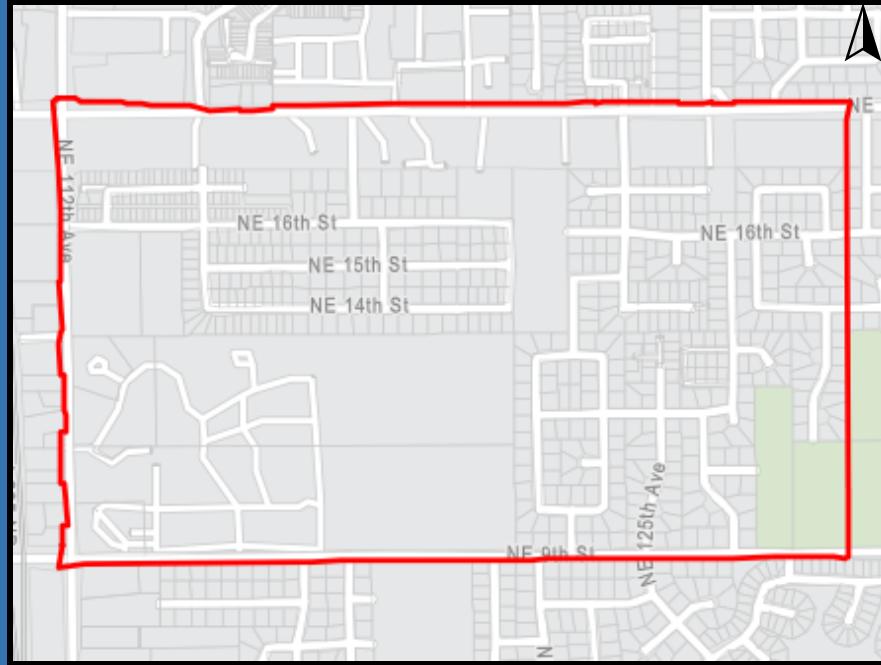
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

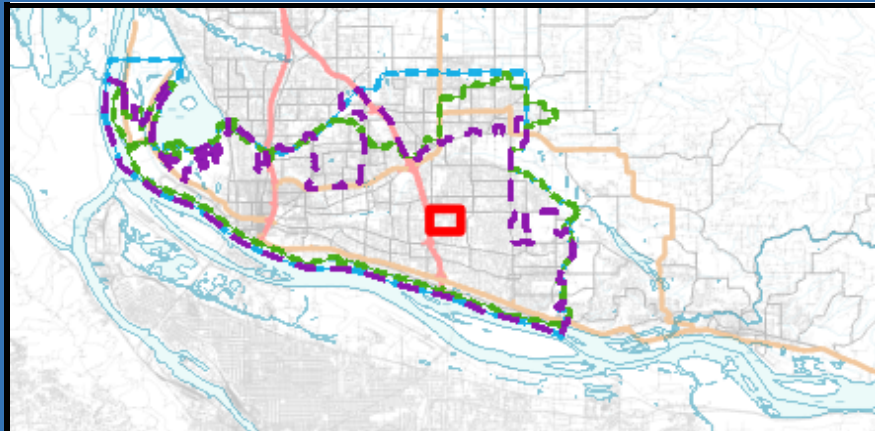
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 9th St. to NE 18th St, NE 112th to NE 129th Ave (T-36)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace existing substandard main with 10,380 lf of new 24" DI main, and 4,390 lf of new 18" DI main.

Project Justification

3 - New systems to replace existing mains and address system operating pressure deficiencies. This adds additional capacity for future growth and improved reliability, and addresses pressure deficiencies as identified in our most recent Water System Comprehensive Plan.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100778

Grant Funded:

Total Project Cost: \$6,200,000.00

***Start of Const.:** 2023
(Year)

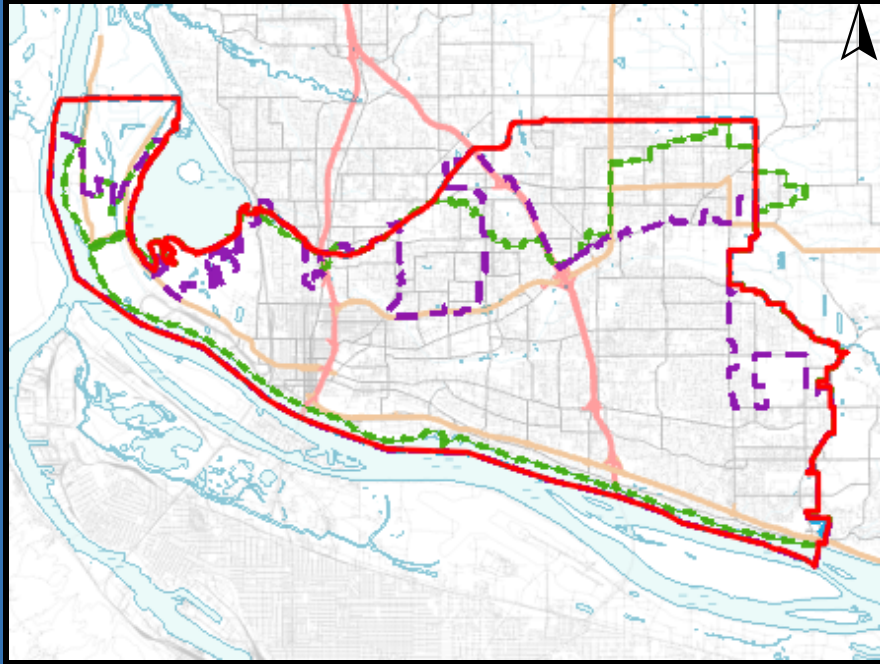
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

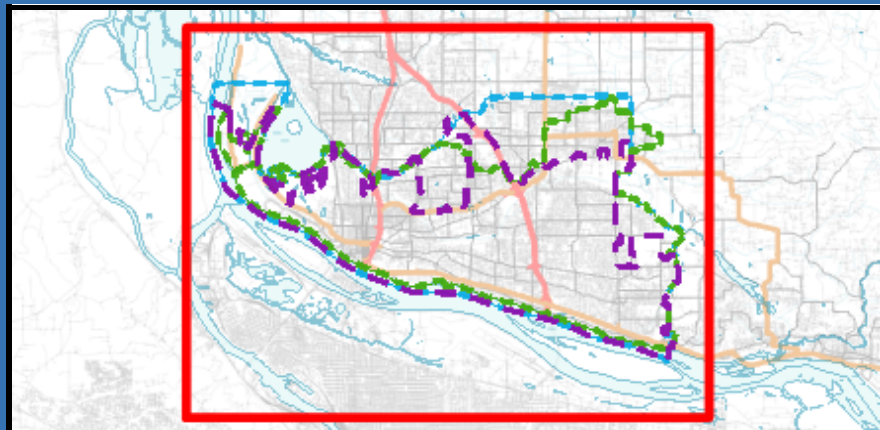
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: SCADA System Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Update our SCADA system software and all associated hardware at all Water Stations.

Project Justification

2 - Improve system security by making continuous improvement to the SCADA system. Project budget to improve reliability for system monitoring and operations, improve system redundancy and operational monitoring and reporting capabilities. Ongoing upgrades to the SCADA system as technology continues to improve.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$1,340,000.00

***Start of Const.:** 2020
(Year)

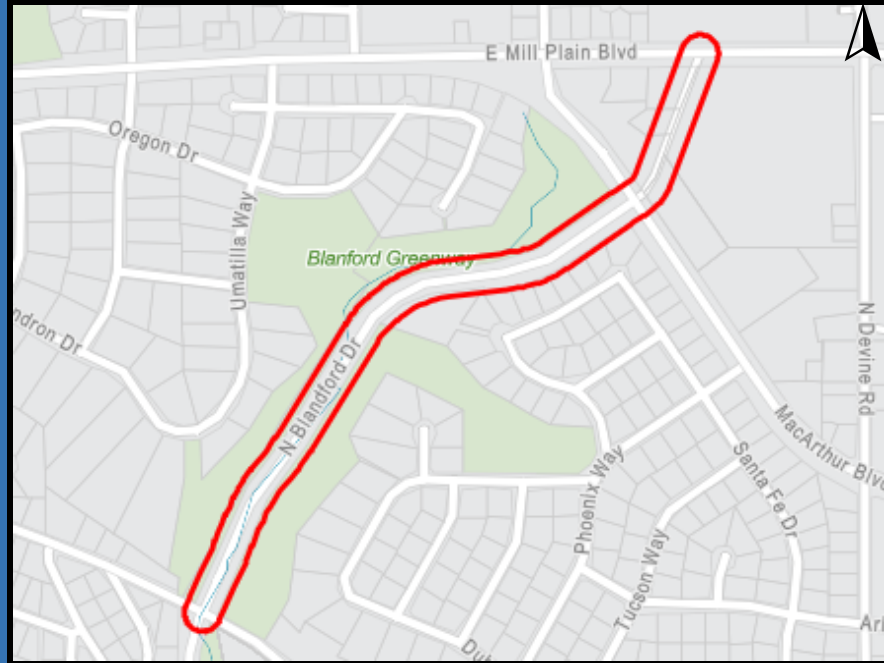
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **WS 5 to Evergreen -Trans Main Blandford (T-51)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

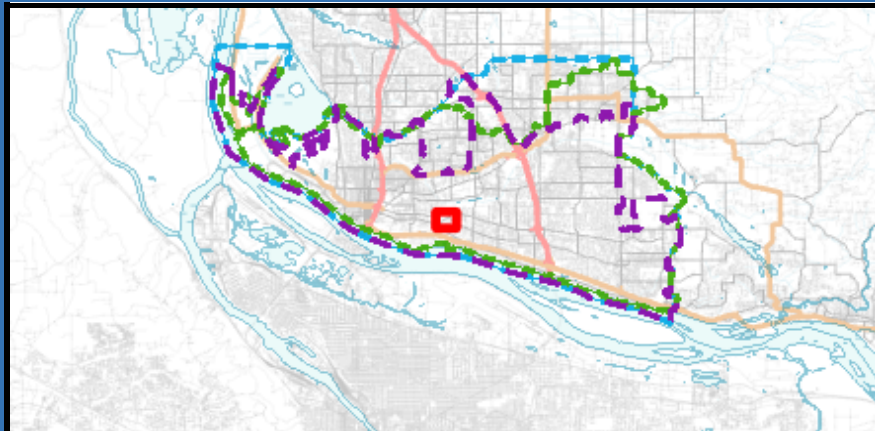
Project Description

Expand existing transmission capacity to address system pressure deficiencies as identified in study (WTR-1033).

Project Justification

3 - New system or 4 - Replace/preserve/rehabilitate system

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2027
(Year)

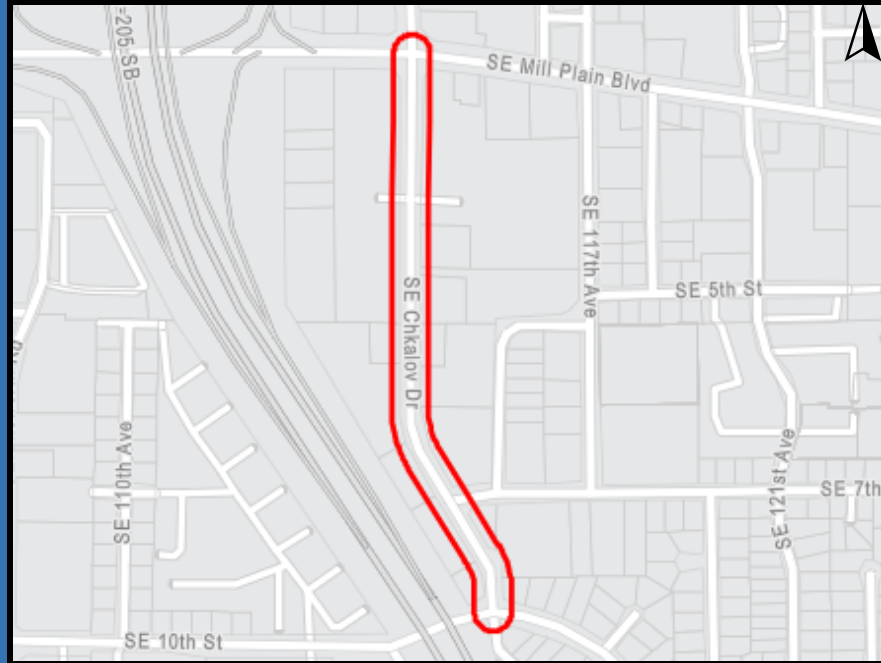
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

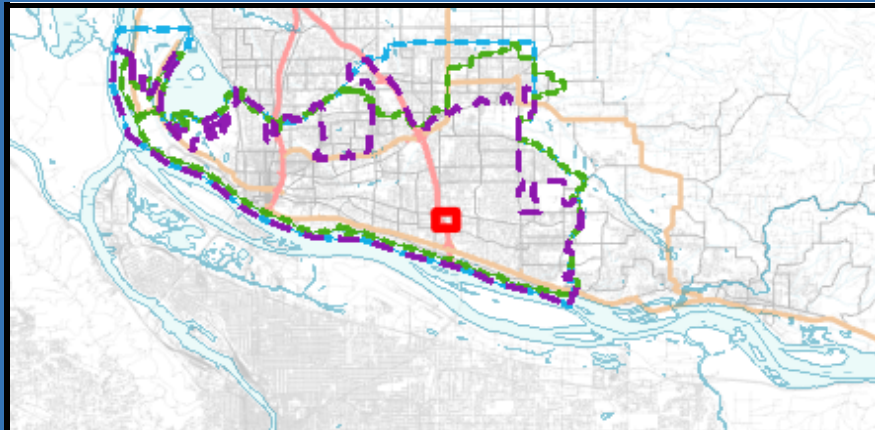
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Chkalov Dr., S. of Mill Plain Blvd (T-45)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Replace existing substandard main with 1,350 LF of new 10" ductile iron main, and 1,110 LF of new 8" DI main.

Project Justification

3 - New systems to replace existing mains. This adds additional capacity for future growth and improved reliability, and addresses pressure deficiencies as identified in our most recent Water System Comprehensive Plan.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$915,000.00

***Start of Const.:** 2025
(Year)

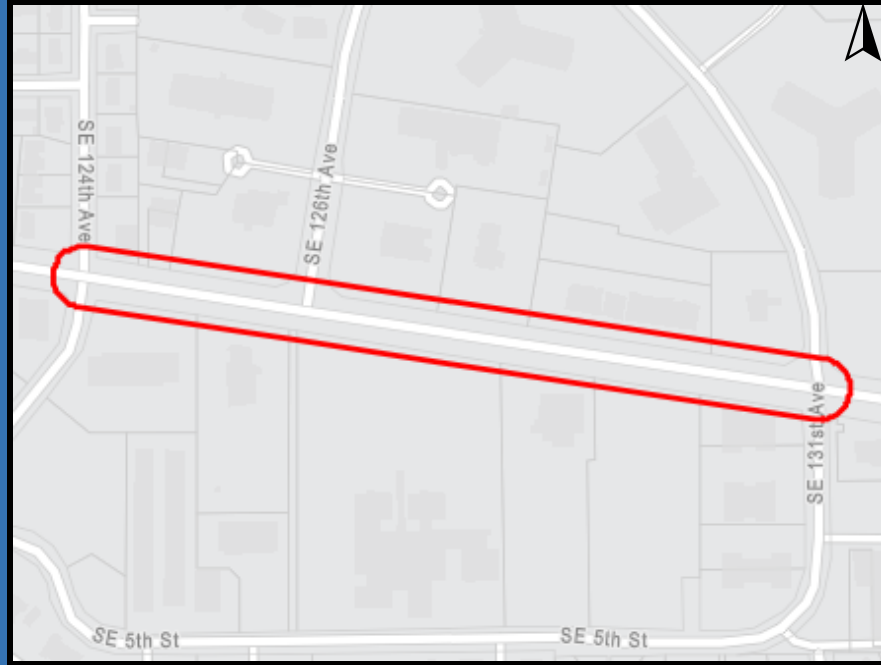
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Mill Plain Blvd. - 124th Ave to 131st Ave (T-46)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

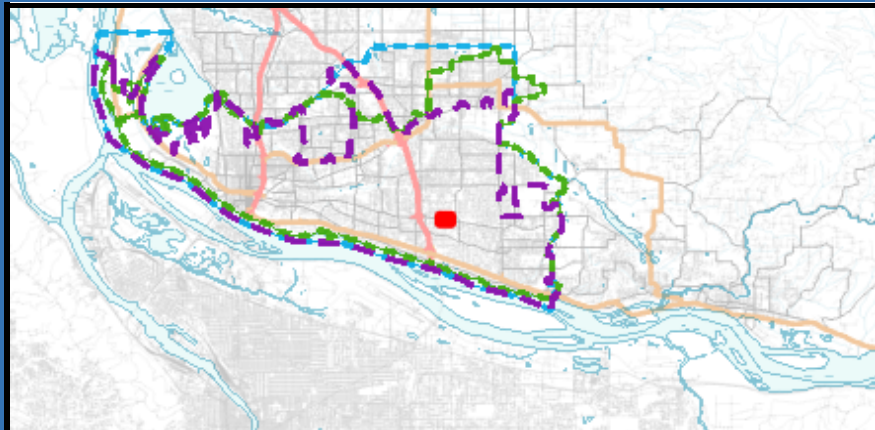
Project Description

Replace existing substandard main with 2,960 LF of new 18" DI main.

Project Justification

3 - New systems to replace existing mains. This adds additional capacity for future growth and improved reliability, and addresses pressure deficiencies as identified in our most recent Water System Comprehensive Plan.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100779

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2024
(Year)

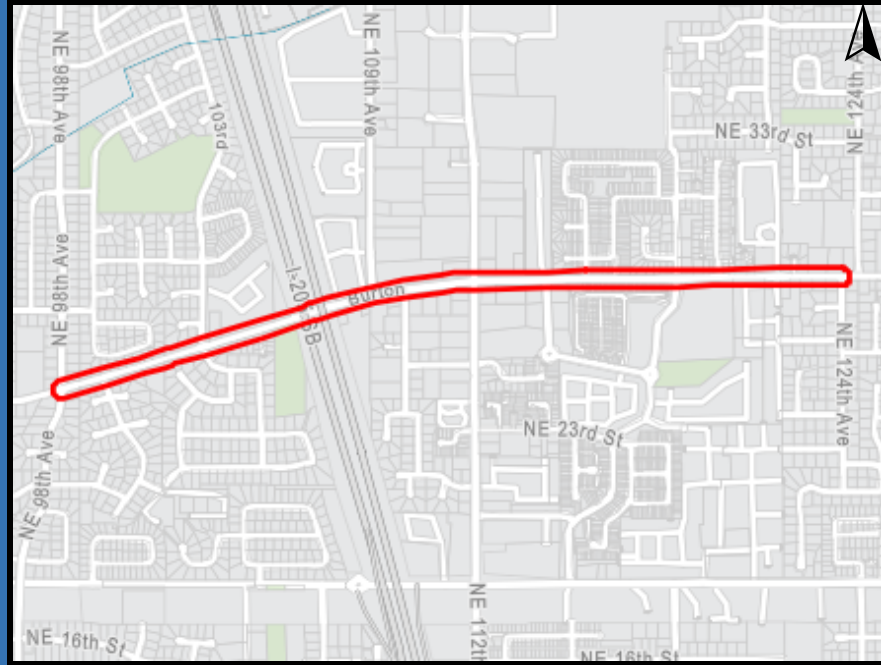
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

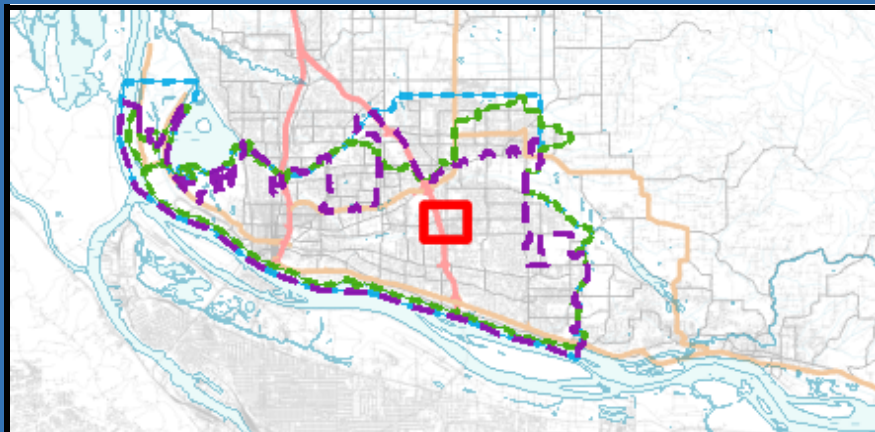
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Transmission Main-NE Burton Rd (T-34)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Install a 24 inch transmission main to the east from NE 97th Ave to NE 124th Ave in Burton Rd.

Project Justification

3 - Add transmission capacity, to move water from supply sources to areas with increasing demand. Transmission mains are needed to move the water from the southwest to the east. This project improves transmission capabilities from WS 1 and Ellsworth to the east.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$3,900,000.00

***Start of Const.:** 2025
(Year)

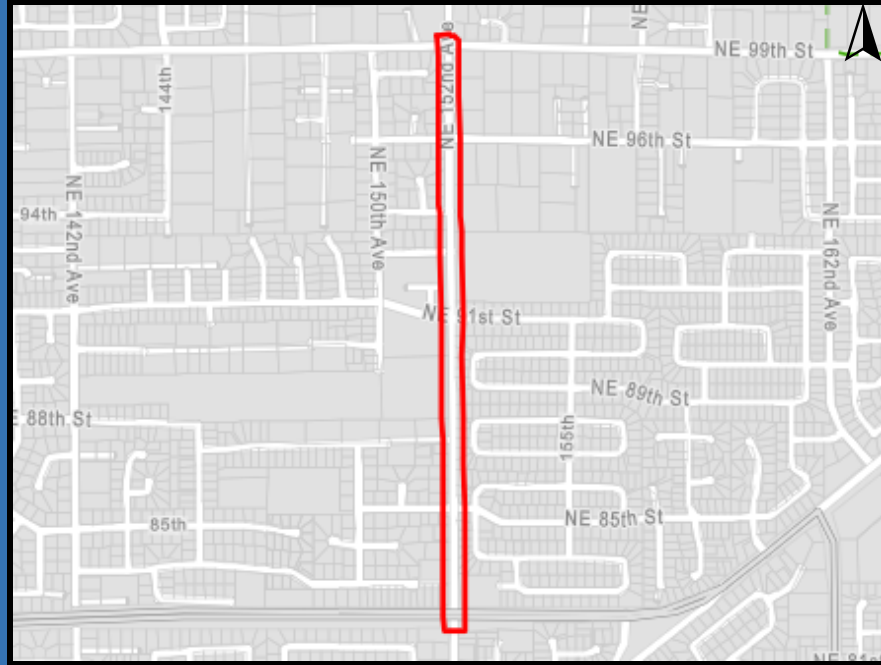
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

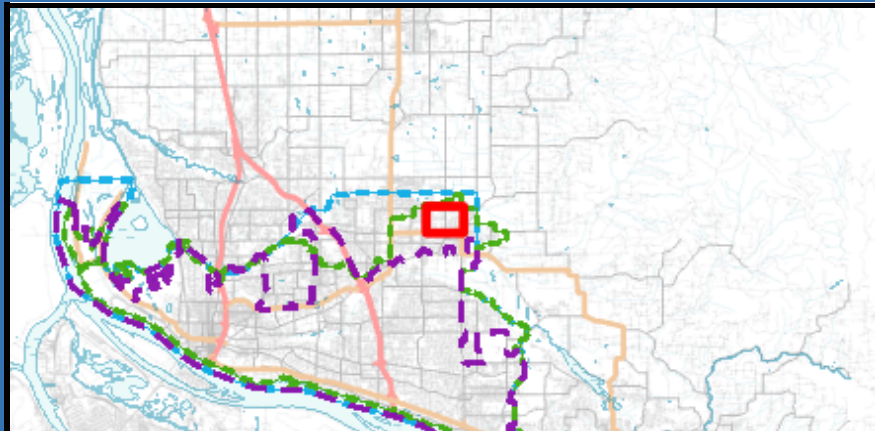
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **152nd Ave Transmission Main - Ward Rd 99th St (T-33)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

New transmission main to improve system capacity between WS 9 to WS 14. Roadway coordination in 152nd Ave from 99th St to south side of Padden.

Project Justification

3 - New systems to increase transmission capacity as identified in last Water System Comp Plan. Add new transmission capacity as identified in last Water System Comp Plan, needed to move water from supply sources to areas with increasing demand. Budget continues construction of new transmission main intended to increase water transmission capacity from WS 9 to WS 14.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100722

Grant Funded:

Total Project Cost: \$2,780,000.00

***Start of Const.:** 2024
(Year)

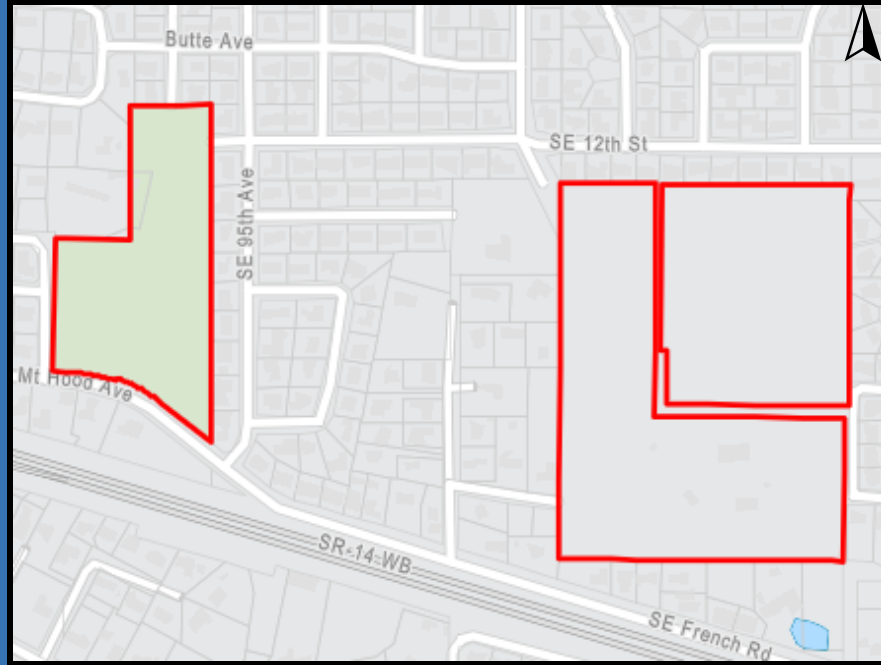
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

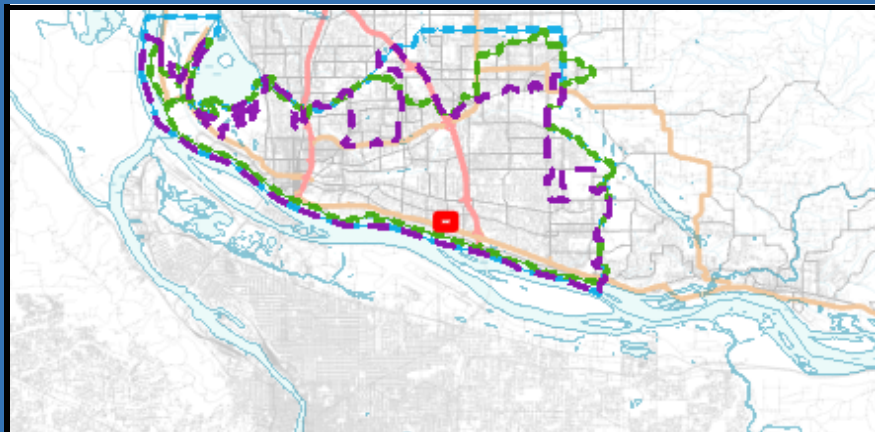
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Ellsworth Well Rehabilitation

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION





Project Description

Scheduled rehabilitation of three production wells at Ellsworth.

Project Justification

4 -Replace/repair/preserve existing assets. Project as identified by Water Operations. Site hydrogeologic conditions require well rehabilitation every 6-8 years to maintain system reliability, production capacity and prolong asset life. Rehabilitation of all three production wells at Ellsworth.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,100,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Water Station 3 Reservoir/Tower/Booster Replacement**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

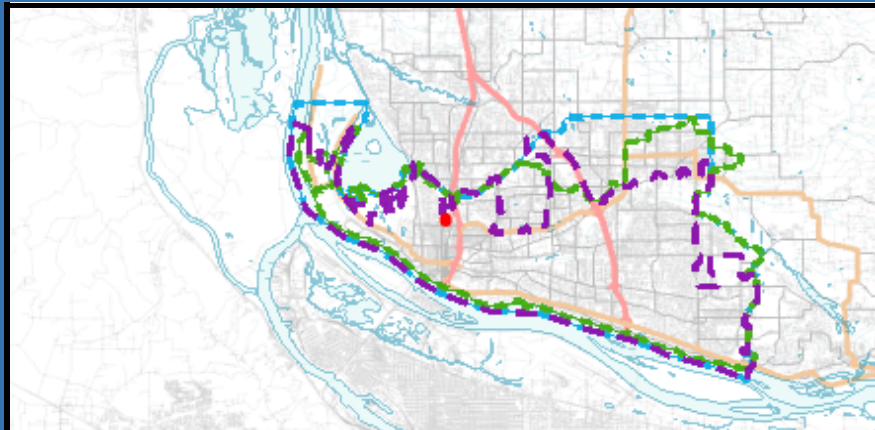
Project Description

Replace aging tower, booster station and reservoir at WS 3.

Project Justification

4 - Replace/preserve/rehabilitate aging water storage facilities to extend asset service life. Replacement of the aging reservoir and tower at WS 3 will extend asset service life and also improve system reliability.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100492

Grant Funded:

Total Project Cost: \$23,200,000.00

***Start of Const.:** 2023
(Year)

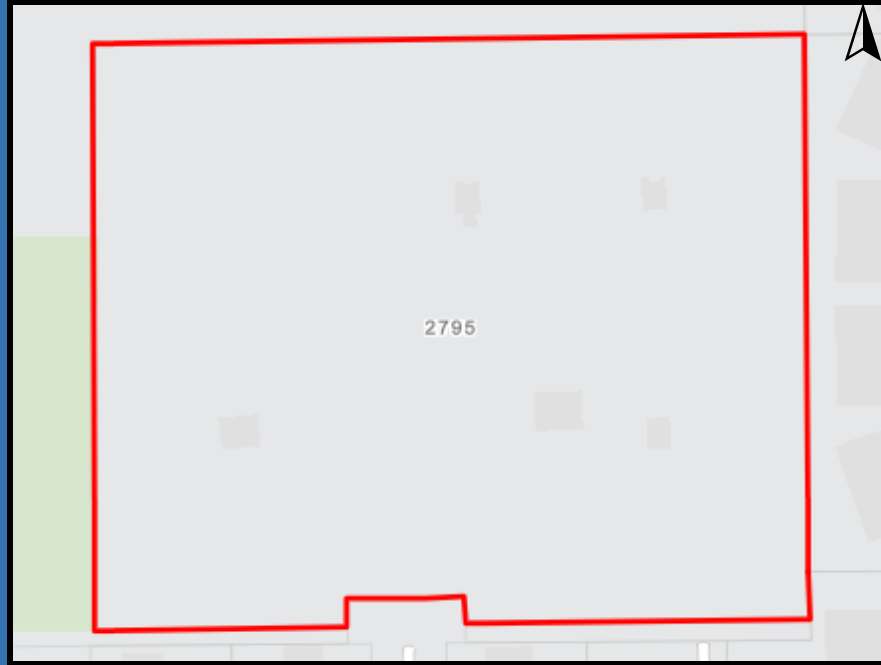
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

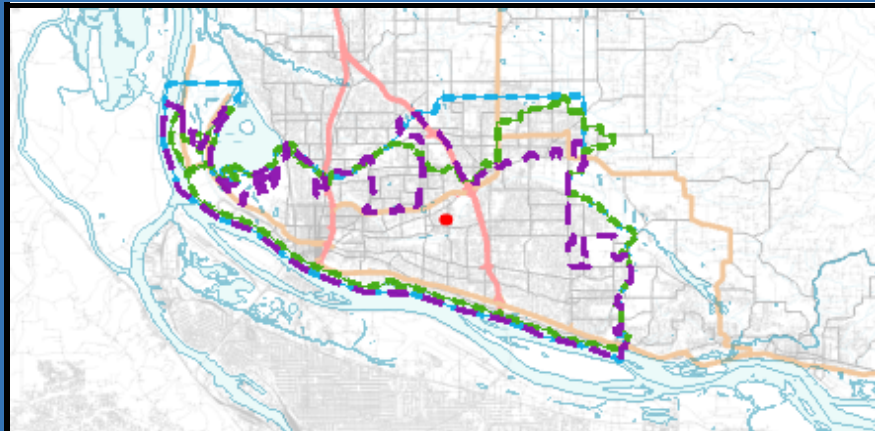
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Sodium Hypo Gen System WS 15**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace WS 15 chlorine gas disinfection to a sodium hypochlorite system.

Project Justification

2 - Improves system safety by eliminating chlorine gas disinfection systems; and 5 - lowers operating costs. Chlorine gas disinfection systems are becoming more expensive to operate. This replaces the existing system at WS 15 with a standardized sodium hypochlorite generation system. The city has standardized a new technology and is upgrading all systems for maintenance consistency and reliability.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100495

Grant Funded:

Total Project Cost: \$1,000,000.00

***Start of Const.:** 2023
(Year)

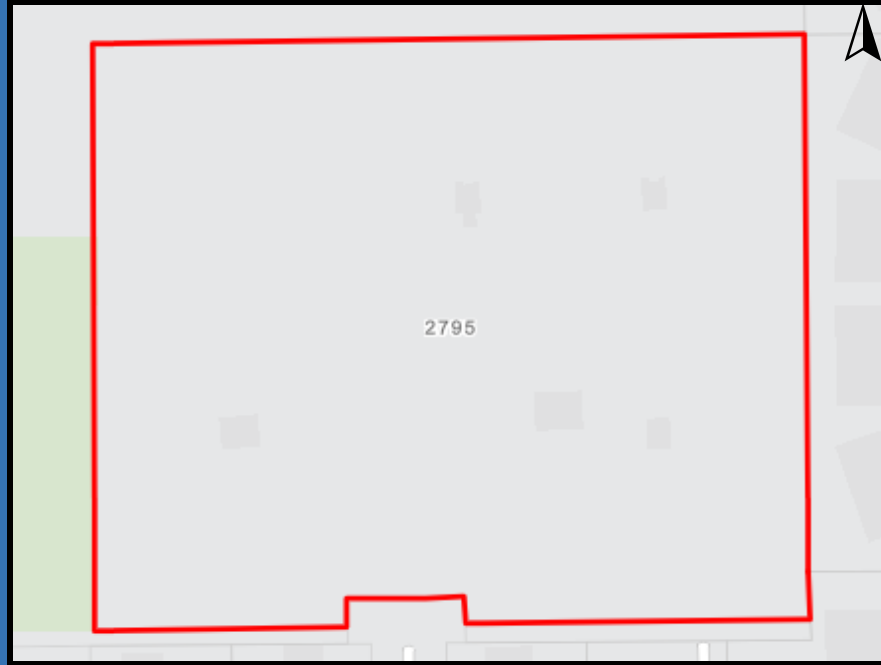
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

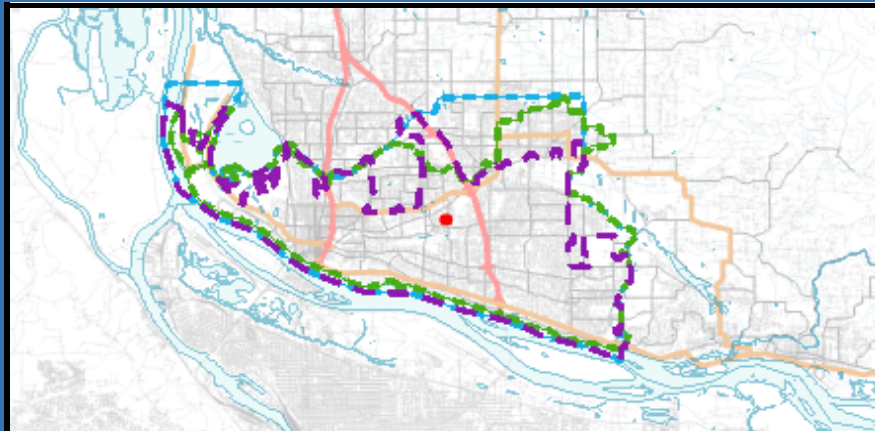
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Station 15 Wells 1-4 Replacement

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Build three new wells at WS 15 to fully use existing water rights.

Project Justification

3 - New systems; new wells are needed at WS 15 to fully use our existing water rights. This project will build three new wells, to replace the existing ones which currently do not fully use our water rights. The new wells will increase our production capacity by allowing us to fully utilize our water rights

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$5,500,000.00

***Start of Const.:** 2025
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

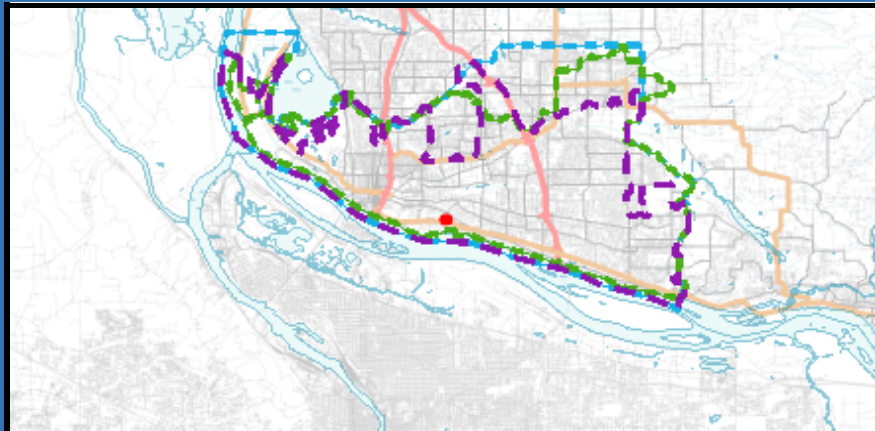
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Station 4 - Replace Well 4 Building

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace existing building for Well 4 at WS4.

Project Justification

4 - Replace/preserve/rehabilitate assets; to replace a deteriorating building in poor condition. This project will replace the building sitting over Well #4 at WS 4.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100240

Grant Funded:

Total Project Cost: \$681,000.00

***Start of Const.:** 2023
(Year)

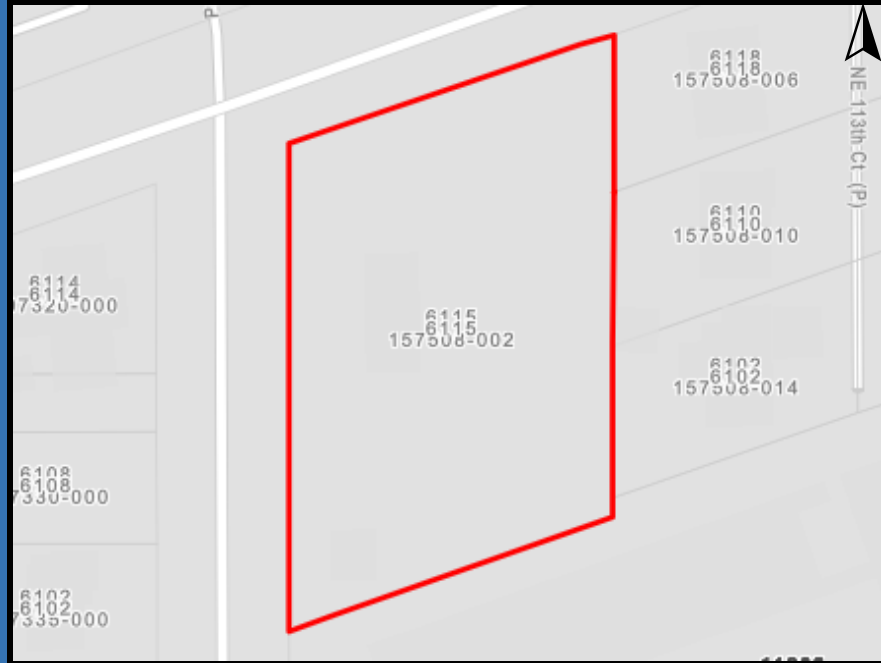
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Water Station 8: Replace Wells 2 & 3**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

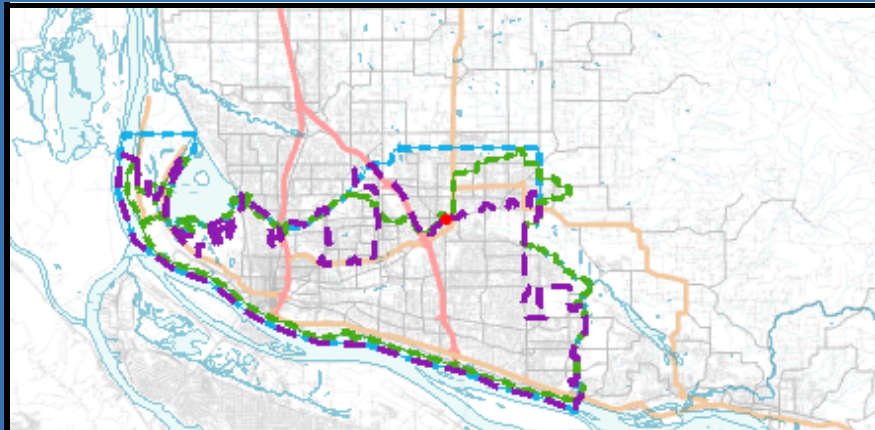
Project Description

Replacement of aging wells based on performance and condition.





Project Justification

4 - Maintain the existing well field and pumping capacity.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$2,600,000.00

***Start of Const.:** 2028
(Year)

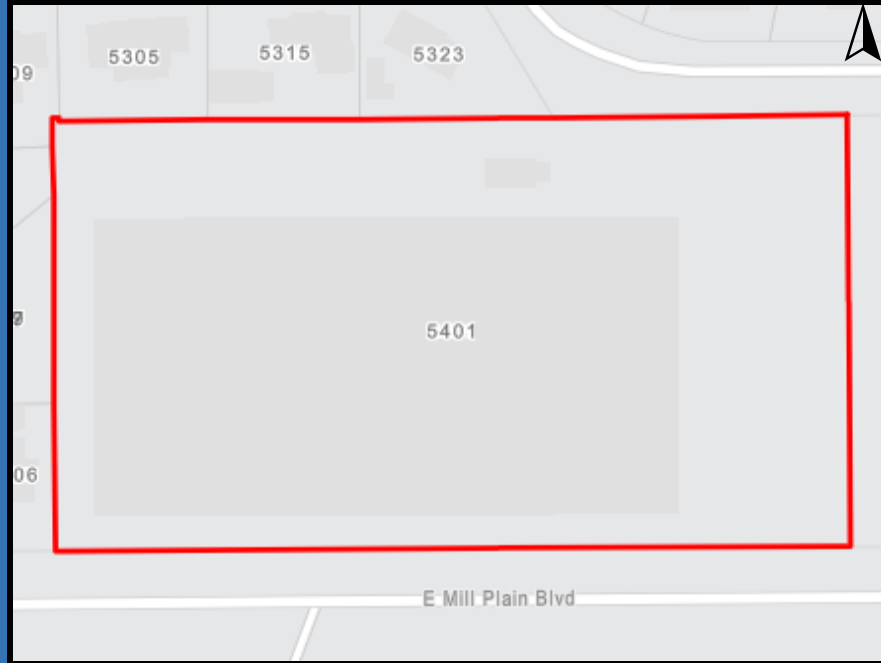
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Station 5 Reservoir, Booster Pumps & E-Power

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

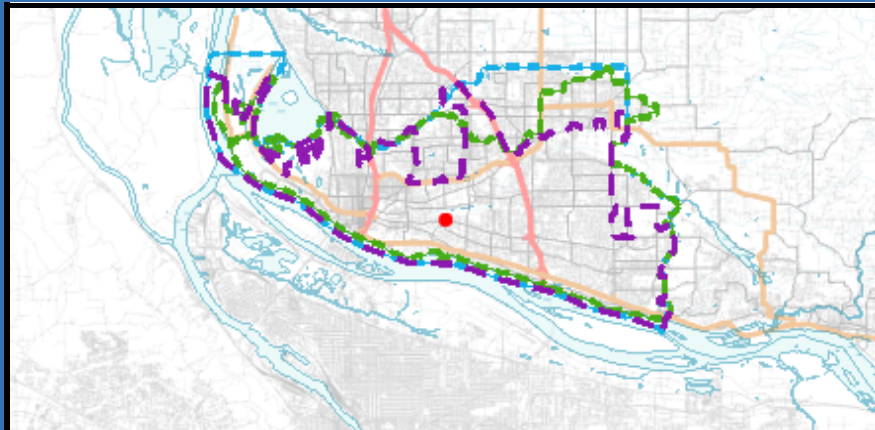
Project Description

Replace existing reservoir and expand pumping system at WS 5 to improve transmission capacity to service area in Heights High Pressure Zone.





Project Justification

3 - New systems to provide additional capacity for future growth and improved reliability. Install additional pumping capacity at Water Station 5 to meet the growing demand and distribute more water to Heights High. Formerly listed as WTR-50

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PR100238

Grant Funded:

Total Project Cost: \$32,100,000.00

***Start of Const.:** 2022
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

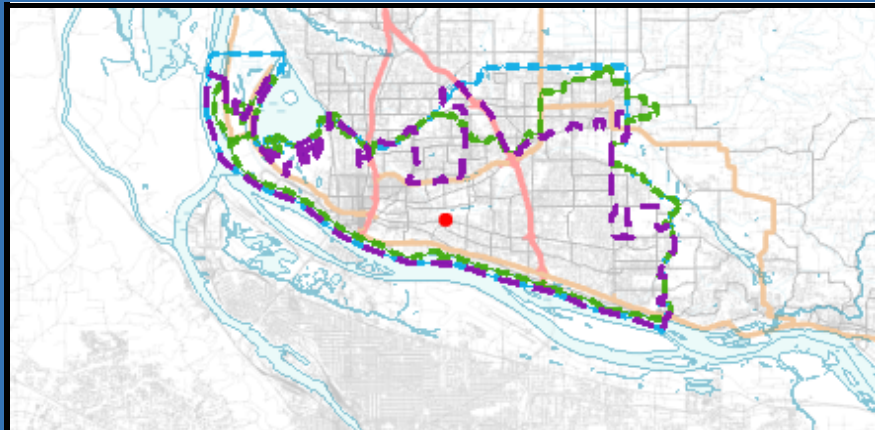
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 5 Internal Tower Coating

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION





Project Description

Rehabilitate existing WS 5 Tower lining.

Project Justification

4 - Replace/preserve/rehabilitate the internal coating for our existing elevated water tower, to extend asset life by preventing corrosion. Rehab existing lining for our aging elevated steel tank, to extend asset service life.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100241

Grant Funded:

Total Project Cost: \$630,000.00

***Start of Const.:** 2024
(Year)

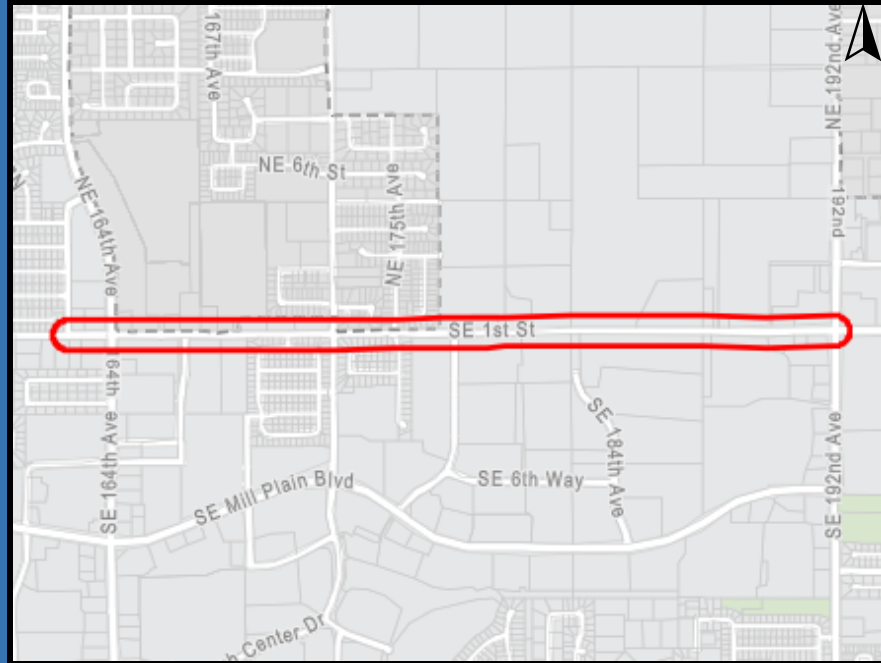
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

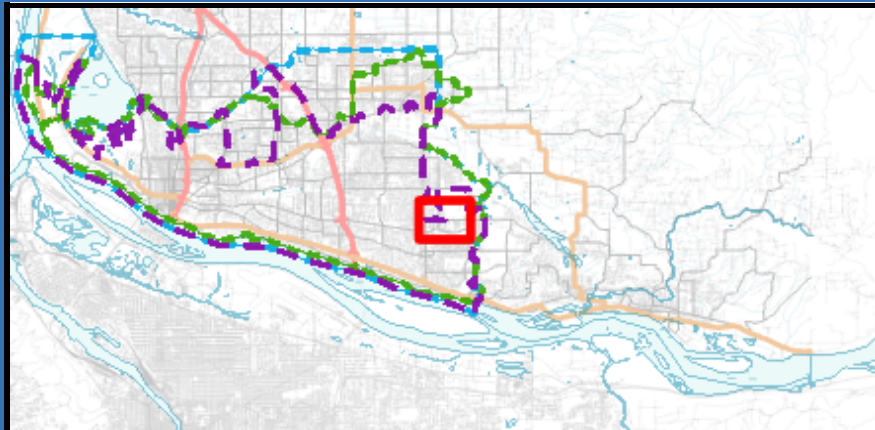
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SE 1st St - SE 162nd Ave to SE 192nd Ave**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project to install 1,800 LF of watermain.

Project Justification

3- New systems to correct pressure deficiency as identified in our current Water System Master Plan. To install new main during this Roadway Coordination project for SE 1st Improvements- SE 164th to SE 192nd Ave. Project budget to install 1800 LF of new 12" DI waterline.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100270

Grant Funded:

Total Project Cost: \$376,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

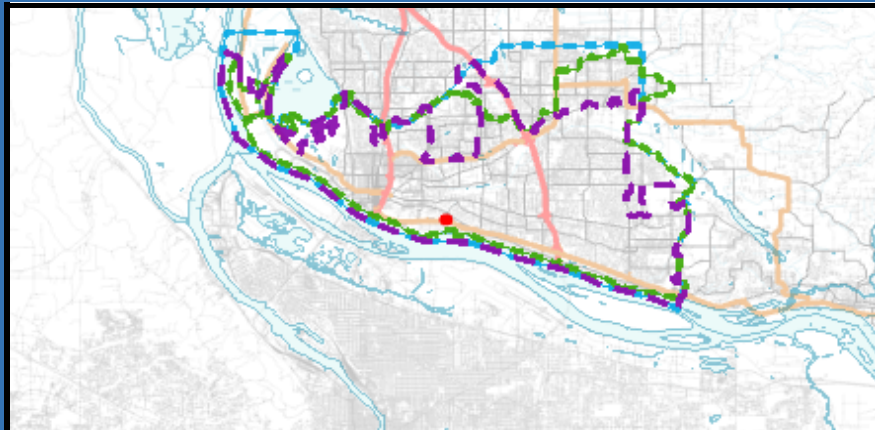
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Sodium Hypo Generation System WS #4**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace/upgrade the existing WS 4 disinfection.

Project Justification

2 - Improves system safety by eliminating chlorine gas disinfection systems. 5 - Lower operating costs, by replacing the existing sodium hypochlorite system. Chlorine gas disinfection systems are becoming more expensive to operate. The city has standardized a new technology and is upgrading all systems for maintenance consistency and reliability. The existing chlorine gas system will be replaced with sodium hypochlorite technology, which costs less and is much safer for the community and operators.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100774

Grant Funded:

Total Project Cost: \$1,200,000.00

***Start of Const.:** 2023
(Year)

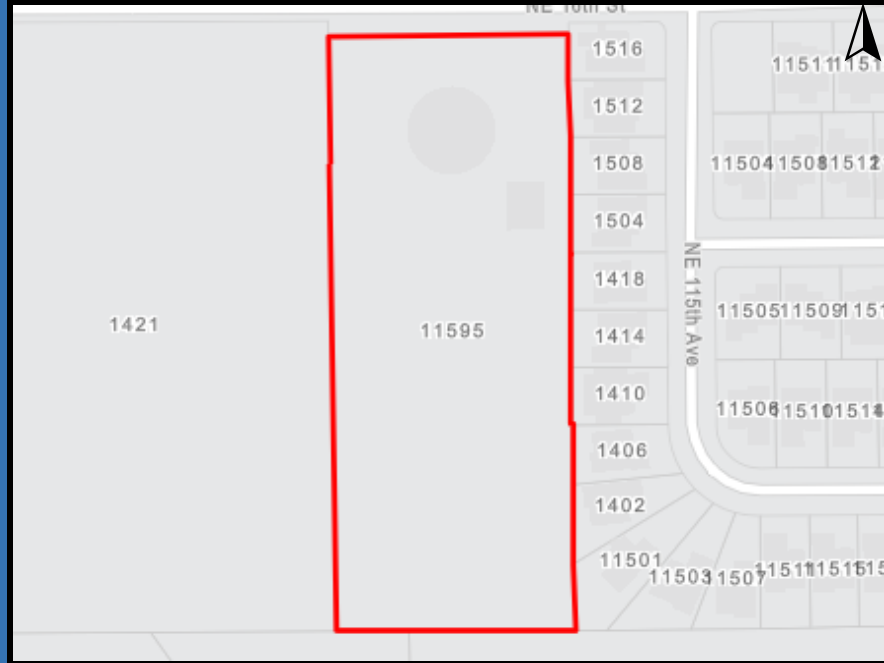
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

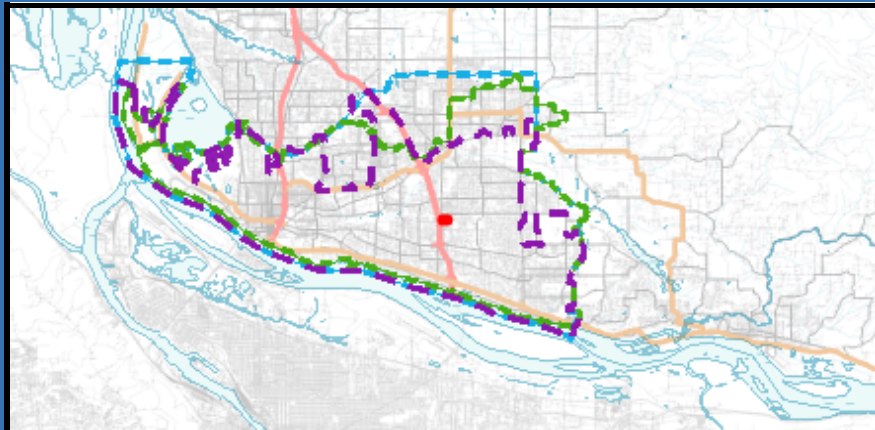
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Water Station #7 Greensand**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Remove and replace greensand filter media at WS 7.

Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life. Scheduled replacement for greensand filter media, which loses reliability over time, to continue providing reliable water system operations.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$300,000.00

***Start of Const.:** 2026
(Year)

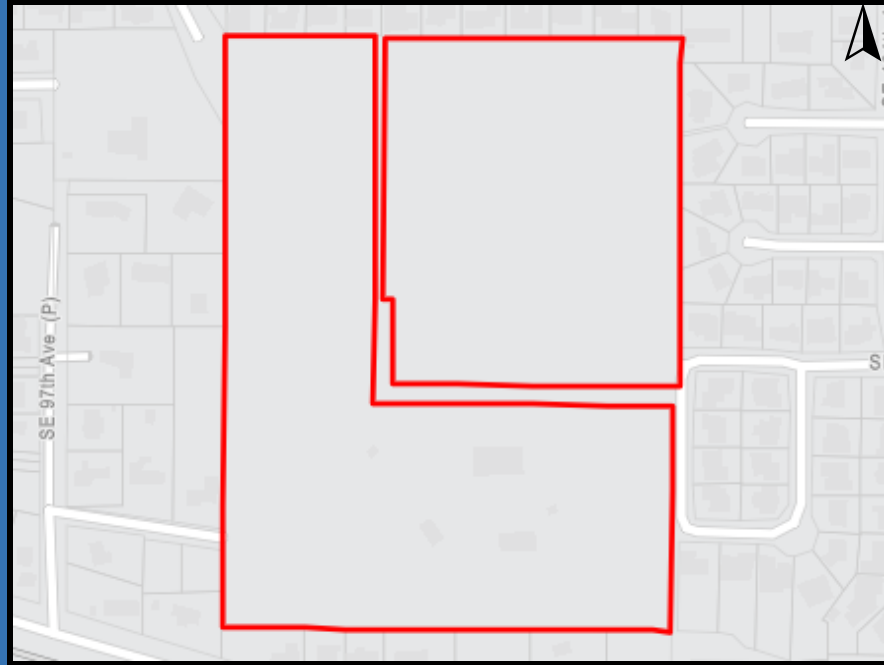
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Ellsworth Well Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

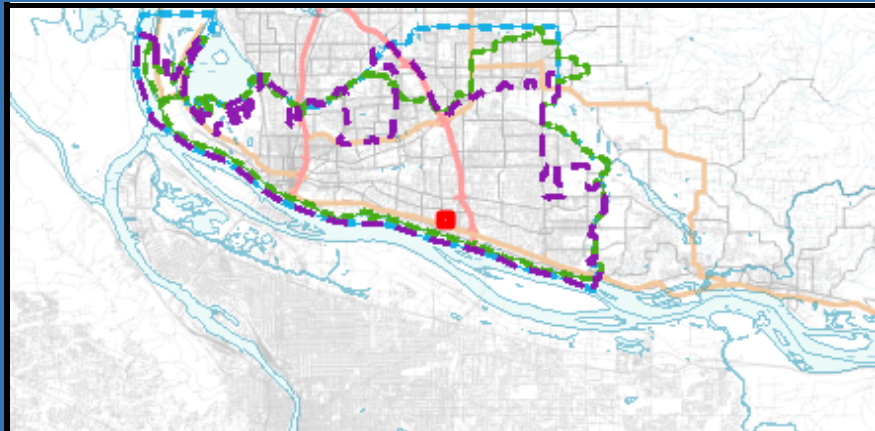
Project Description

Replace existing wells to extend asset service life and production reliability.





Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$5,400,000.00

***Start of Const.:** 2027
(Year)

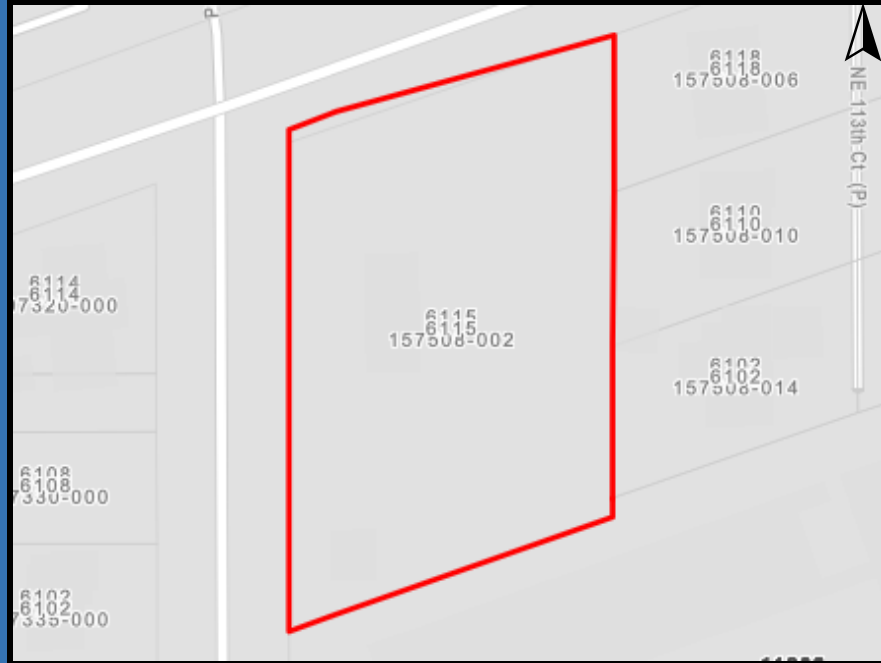
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WS 8 Hypo Gen System

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

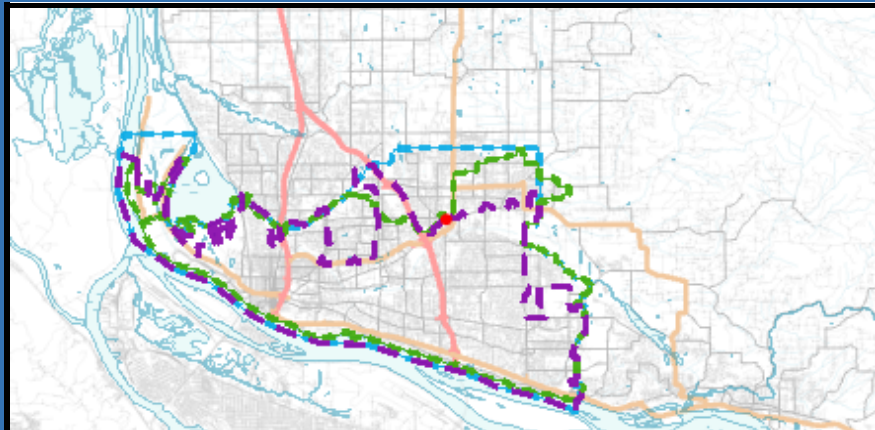
Project Description

Replace and upgrade existing sodium hypochlorite disinfection system at WS 8.





Project Justification

5 - Lower operating costs by replacing the existing sodium hypochlorite system with a new one. The city has a new standardized, disinfection technology and is upgrading all systems for maintenance consistency and reliability. Replacing the existing aging sodium hypochlorite system at WS 7 will reduce our annual operations and maintenance costs by reducing frequent repairs.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100239

Grant Funded:

Total Project Cost: \$800,000.00

***Start of Const.:** 2020
(Year)

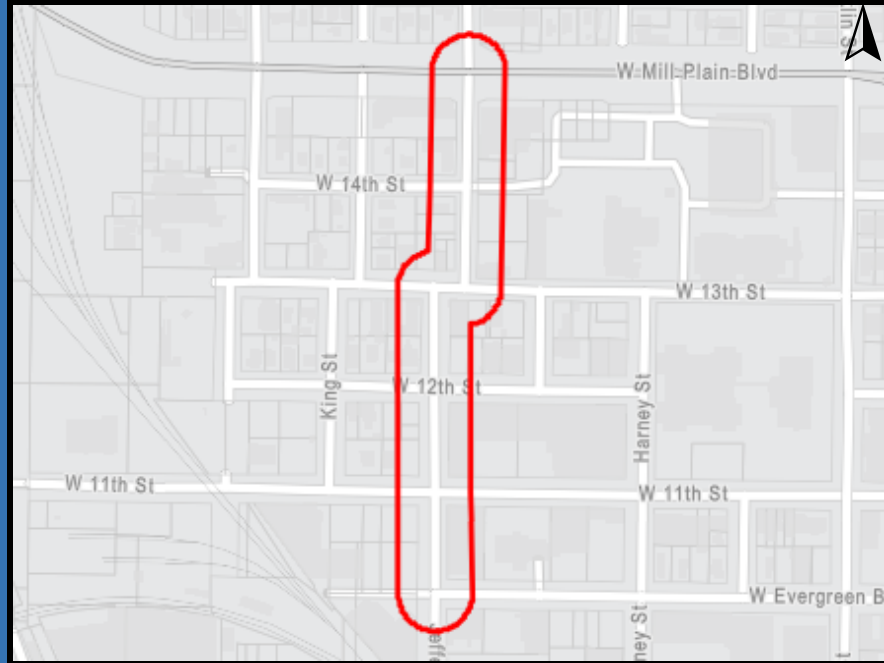
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Jefferson St. Realignment - W. Evergreen to W. Mill Plain**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

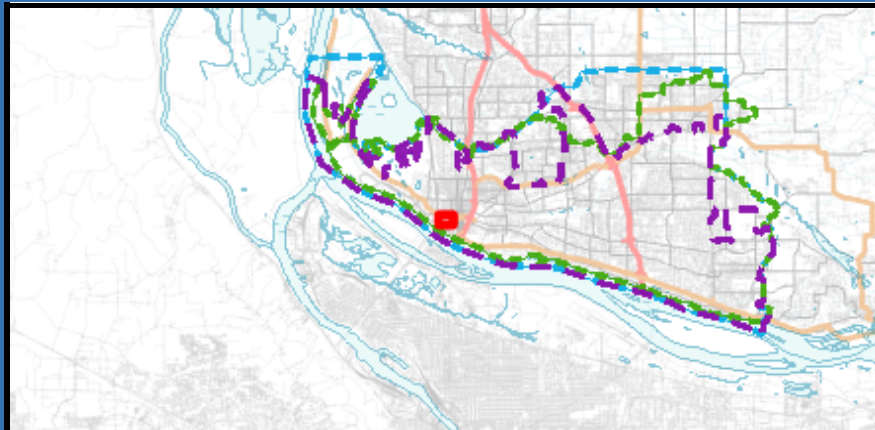
Project Description

Roadway Coordination project (TRANS-531) to install 1,800 LF of watermain and abandon existing.

Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life. Waterline rehabilitation in coordination with Transportation program project.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$170,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

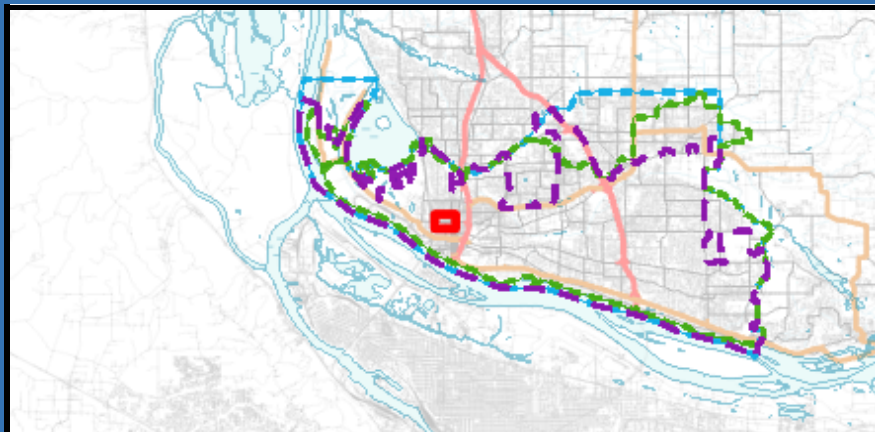
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Lincoln to Main St Trans Main (T-4,5,6)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION





Project Description

This project scope now includes three formerly separate CIP projects, these were WTR-123 - Daniels to Main St (T-4); WTR-125 - 4th Plain Blvd & 25th St, Lincoln to Grant (T-5); and WTR-126 - 25th St, Grant to Franklin ST (T-6)

Project Justification

3 - Install new transmission main for improved fireflow and pressure in Lincoln High Pressure Zone.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100499

Grant Funded:

Total Project Cost: \$1,800,000.00

***Start of Const.:** 2023
(Year)

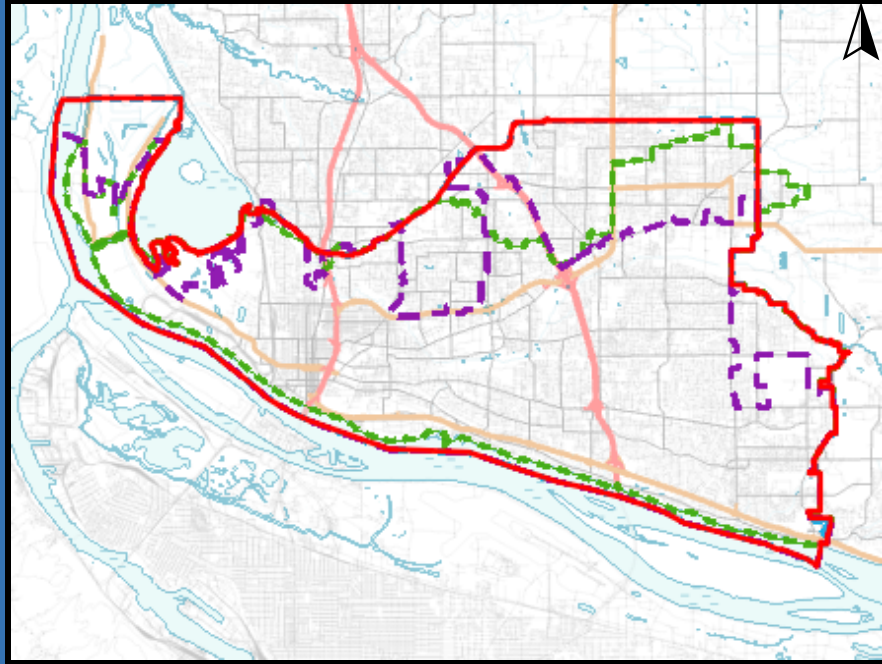
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

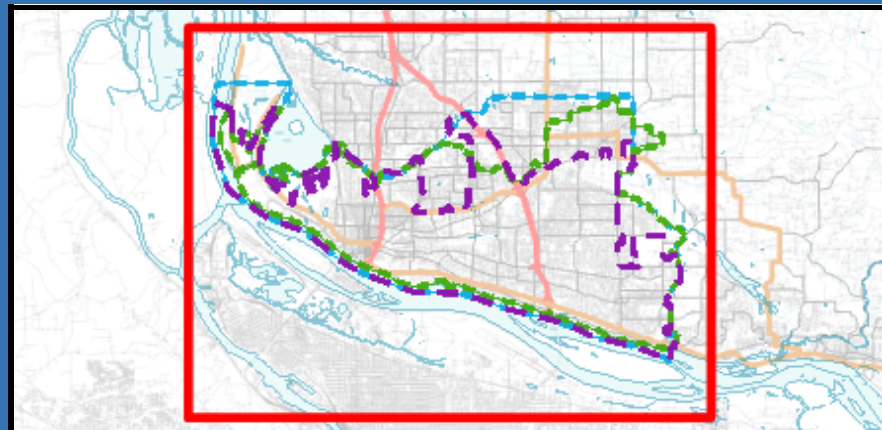
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **System Motor Control Center (MCC) Upgrades**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Average service life for system controls is seven years, requiring ongoing and systematic replacement for system reliability

Project Justification

4 - Systematically replace aging electronics/controls infrastructure

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$12,000,000.00

***Start of Const.:** 2029
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

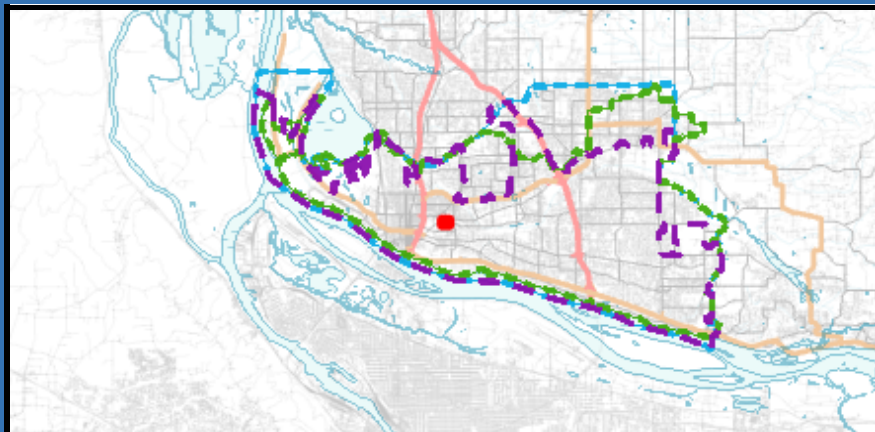
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Water Station 1- Replace Wells 3, 4 and 5.**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Rehabilitate existing WS 1 Wells 3, 4 & 5 to extend useful life.

Project Justification

4 -Replace/preserve/rehabilitate existing systems. This project replaces aging wells in poor condition to increase reliability for a secure water production/source and extend asset life. Water Station #1 is an important and prolific well field. Three existing aged wells and pump houses will be replaced to provide security for the delivery of water from this site. Water rights will not be increased.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100490

Grant Funded:

Total Project Cost: \$3,530,000.00

***Start of Const.:** 2023
(Year)

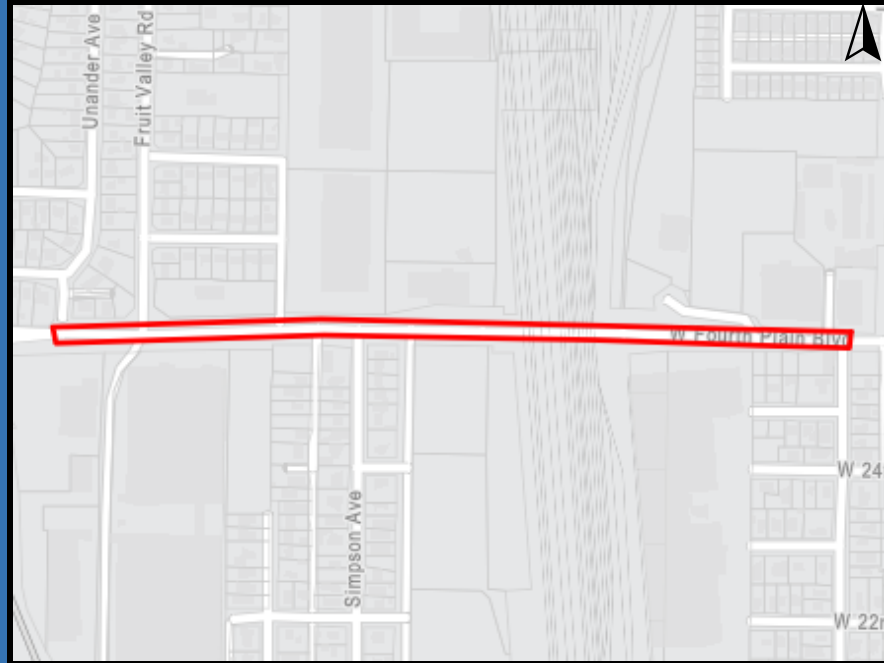
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

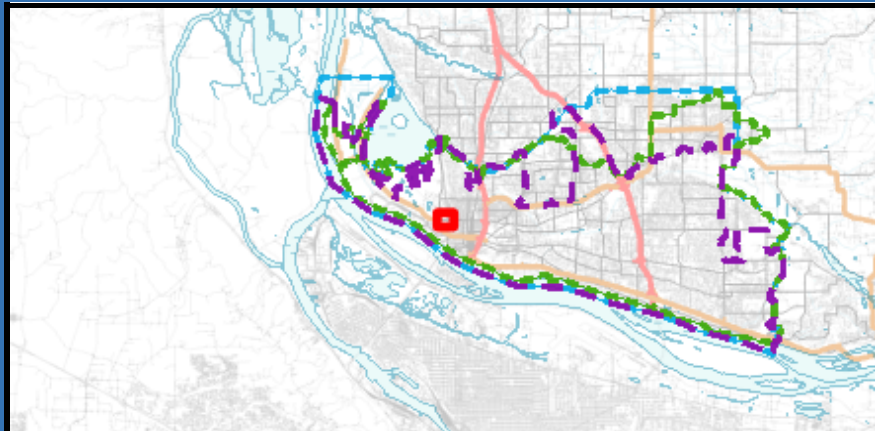
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **BNSF Fourth Plain Transmission (T-3)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Install larger new transmission main for capacity improvements along existing main.

Project Justification

3 - New system

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100724

Grant Funded:

Total Project Cost: \$2,630,000.00

***Start of Const.:** 2023
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Station 1 Wellhouse 11-13 Roof Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

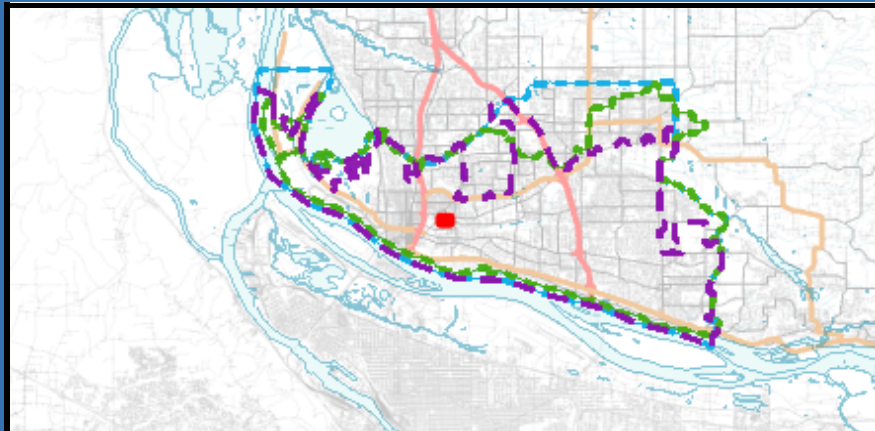
Project Description

Replace roofs on wellhouses 11-13 at Water Station 1.

Project Justification

4 - Replace/preserve/rehabilitate existing assets to extend service life.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100776

Grant Funded:

Total Project Cost: \$120,000.00

***Start of Const.:** 2024
(Year)

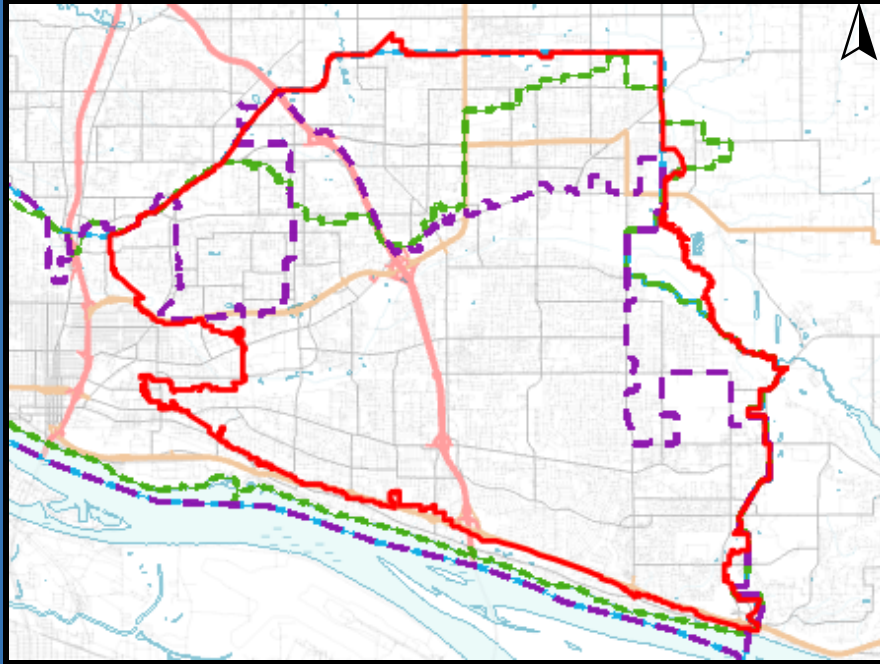
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

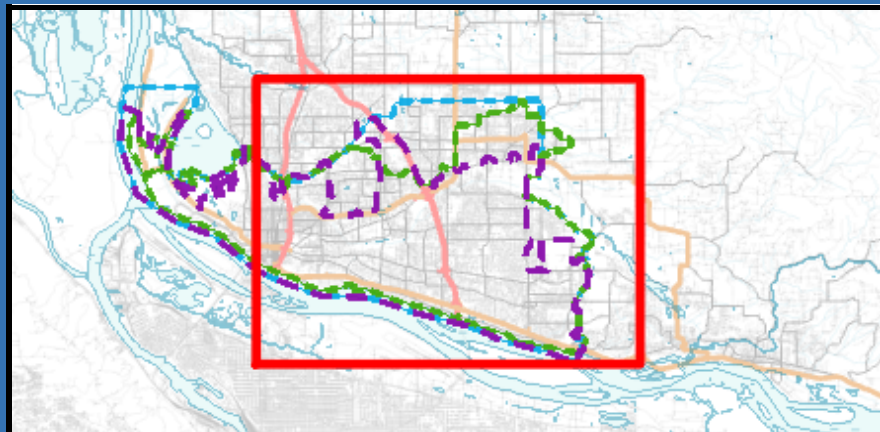
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Heights High Groundwater Development Water Rights**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Planning and support for water rights work to develop existing water rights in Heights High.

Project Justification

1 - Regulatory compliance

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100656

Grant Funded:

Total Project Cost: \$251,000.00

***Start of Const.:** 2021
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Study for Adding a 4th Pump at St. Johns WS 1**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

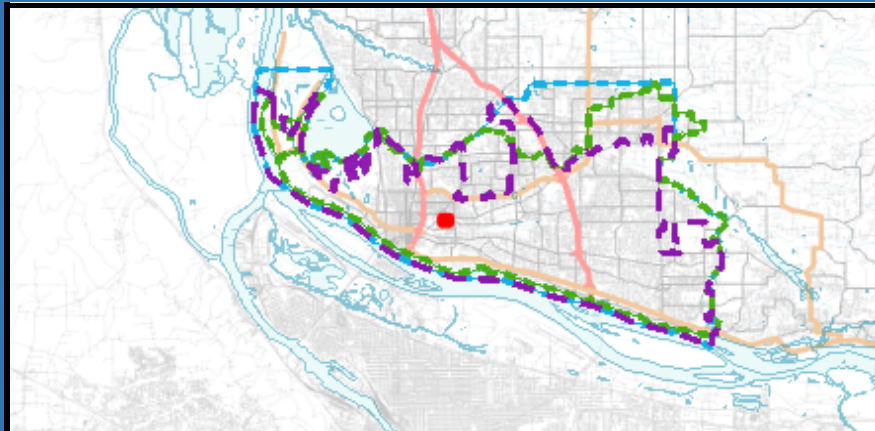
Project Description

Study for adding a fourth pump at St. Johns Water Station 1.

Project Justification

3 - New systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$10,000.00

***Start of Const.:** 2026
(Year)

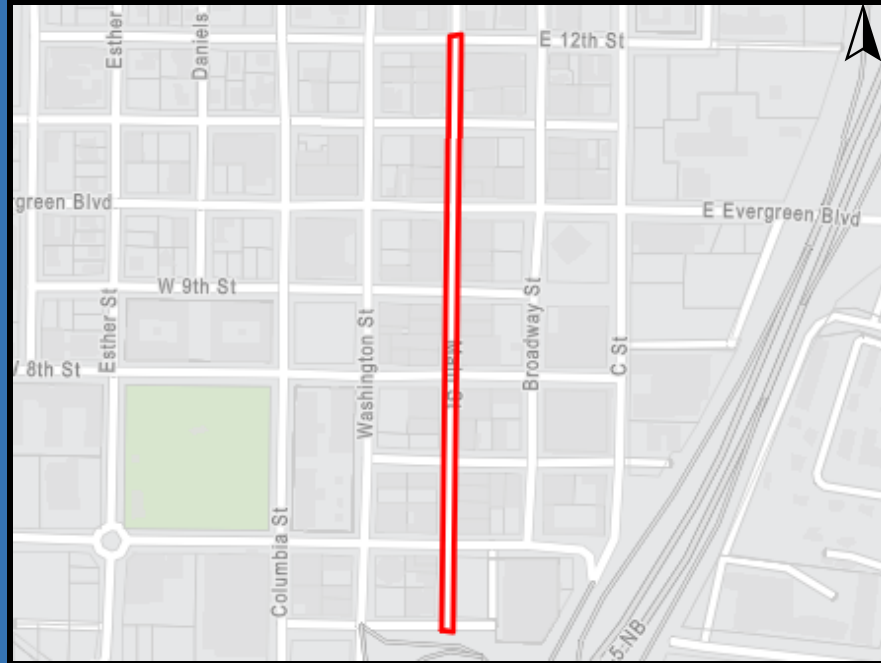
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Main St Water - 5th to 15th**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

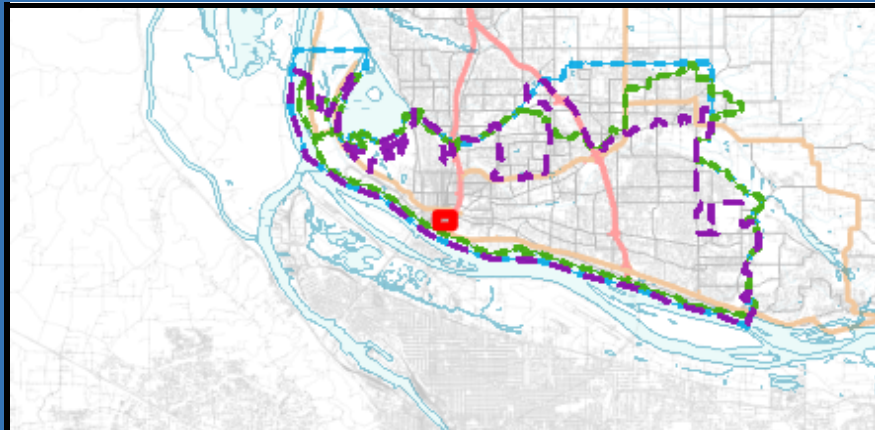
Project Description

Replace the existing water main in Main St from 5th St to 12th St in conjunction with City roadway project (Main St from 5th St to 15th St).





Project Justification

4 - Replace/preserve/rehabilitate system

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100723

Grant Funded:

Total Project Cost: \$651,000.00

***Start of Const.:** 2024
(Year)

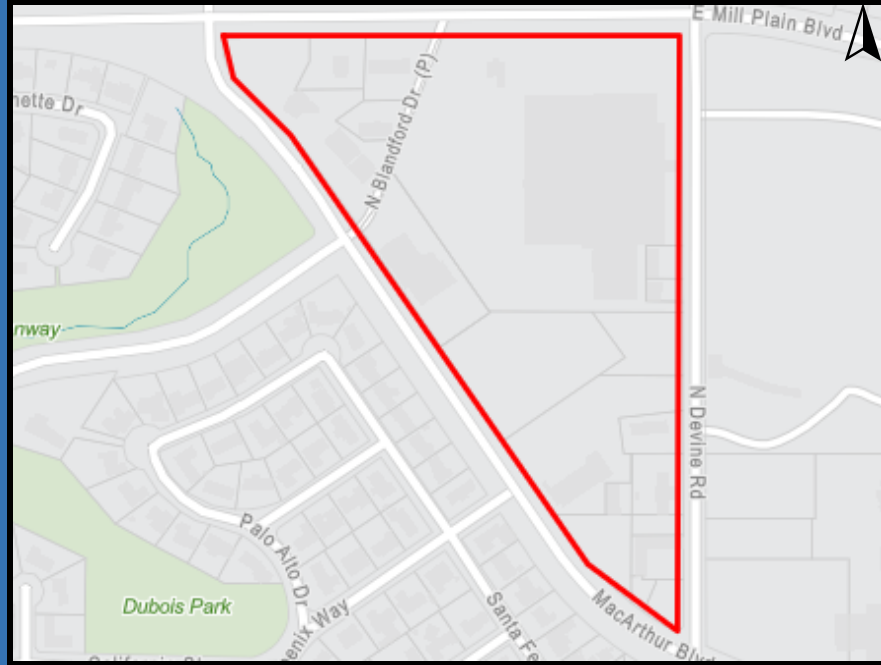
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Heights District Redevelopment

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

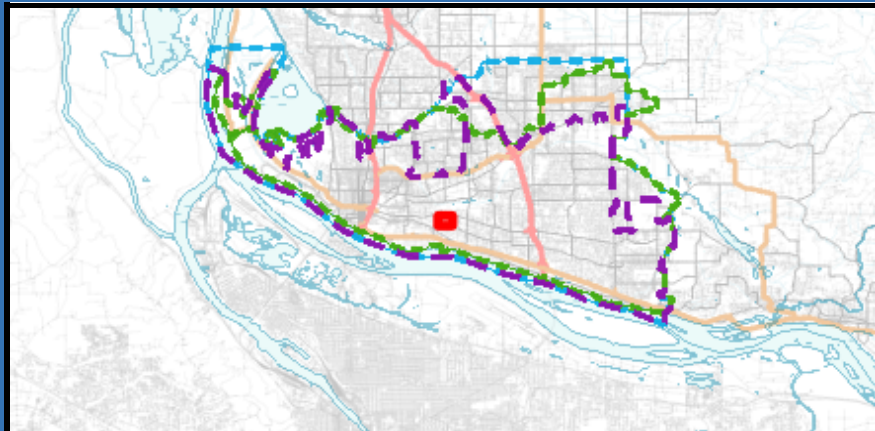
Project Description

Heights District Redevelopment project includes building roads and utilities for future development. Originated from Heights District Plan (2020).

Project Justification

3 - New systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100713

Grant Funded:

Total Project Cost: \$2,650,000.00

***Start of Const.:** 2025
(Year)

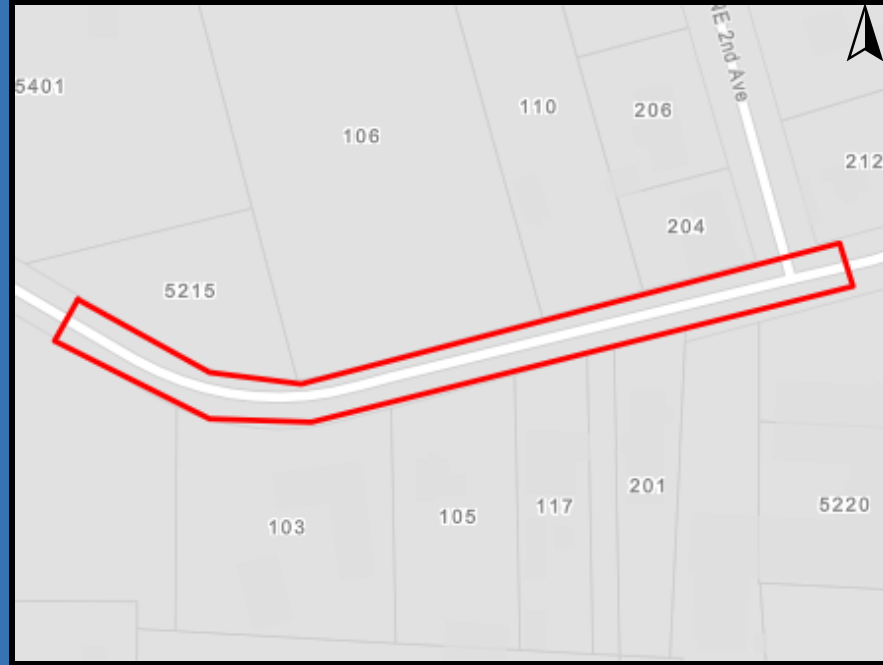
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Alki road Water Main Replacement - West Vancouver SCIP Phase 1

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

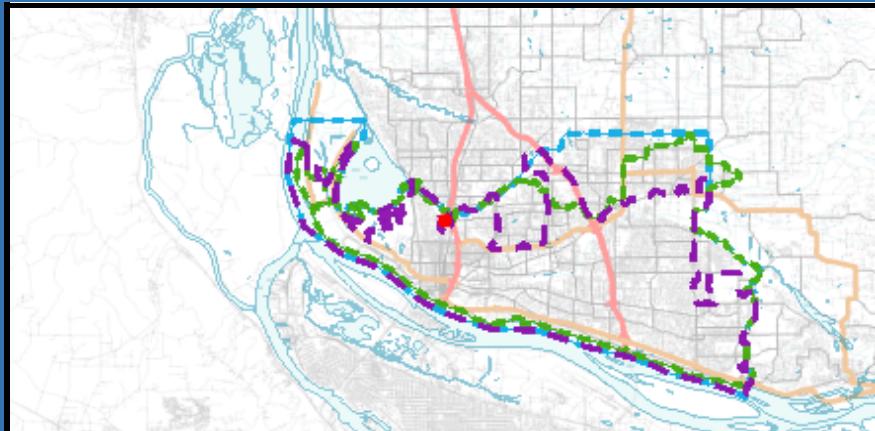
Project Description

Replace 600 ft of 2" galvanized pipe with 8" ductile iron pipe in Alki Road and install a fire hydrant around the 5000 block of NW Esther St with the West Vancouver Ph 1 SCIP project.

Project Justification

4 - Replace/preserve/rehabilitate systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100877

Grant Funded:

Total Project Cost: \$125,000.00

***Start of Const.:** 2023
(Year)

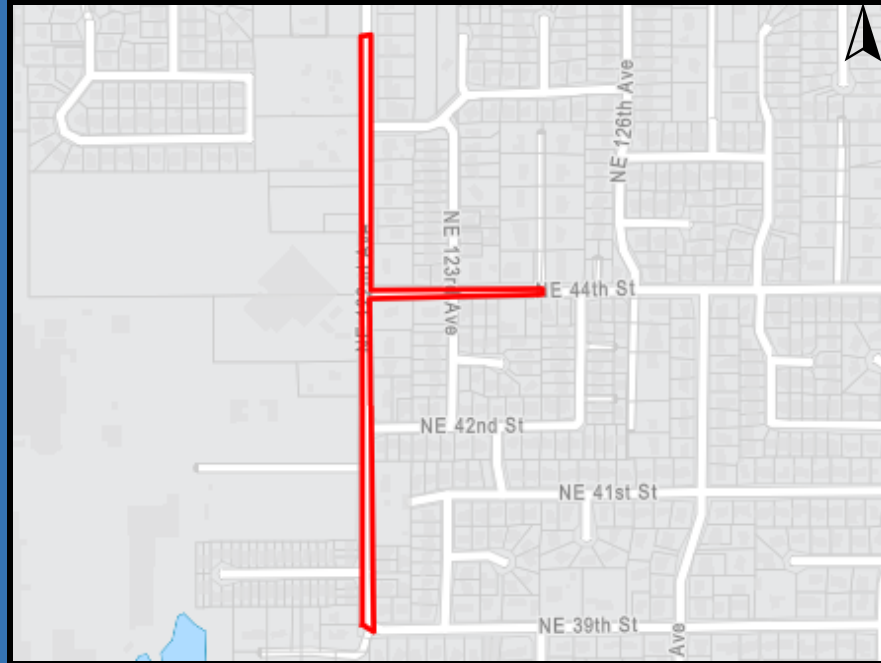
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 122nd Ave and 44th St Water Main Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

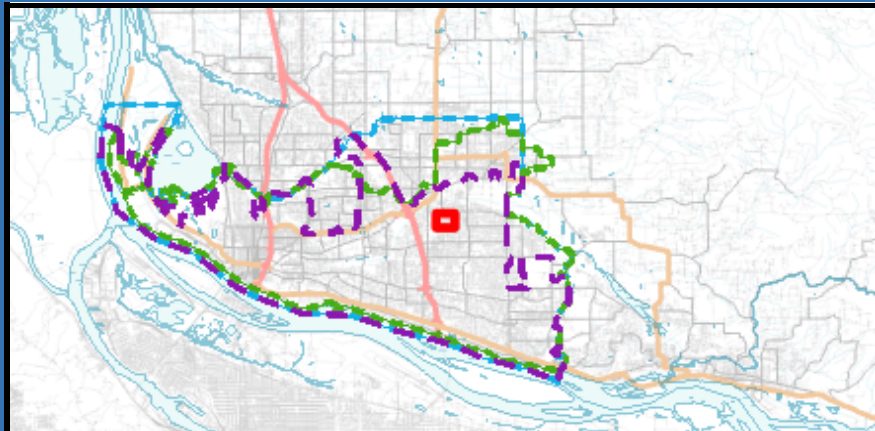
Project Description

Replace 2,150 ft of 6" OD STL with 8" ductile iron on 122nd Ave from 39th St to 44th St. Replace 675 ft of 6" OD STL with 8" ductile iron on 44th St from 122nd Ave to 124th Ave. Abandon 200' of steel main and transfer to ductile iron where dual main exists.

Project Justification

4 - Replace/preserve/rehabilitate systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100882

Grant Funded:

Total Project Cost: \$995,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 30th Ave Water Main Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

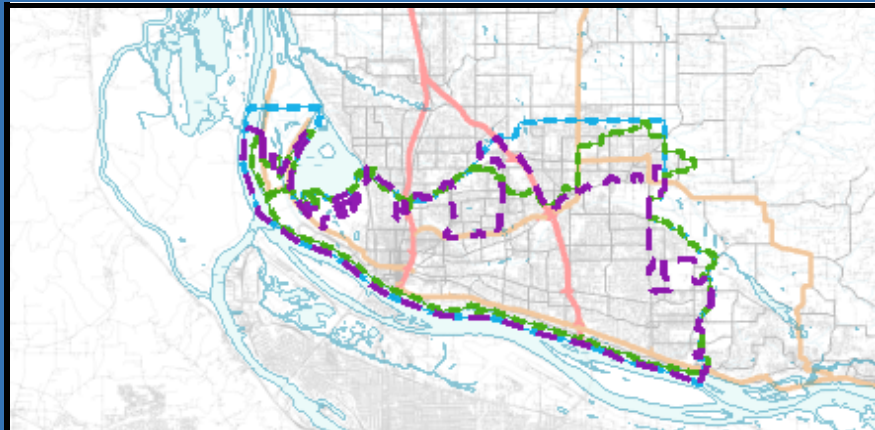
Project Description

Replace 175 ft of 2" galvanized pipe with 4" ductile iron pipe (north of NE 45th ST).





Project Justification

4 - Replace/preserve/rehabilitate systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100887

Grant Funded:

Total Project Cost: \$50,000.00

***Start of Const.:** 2024
(Year)

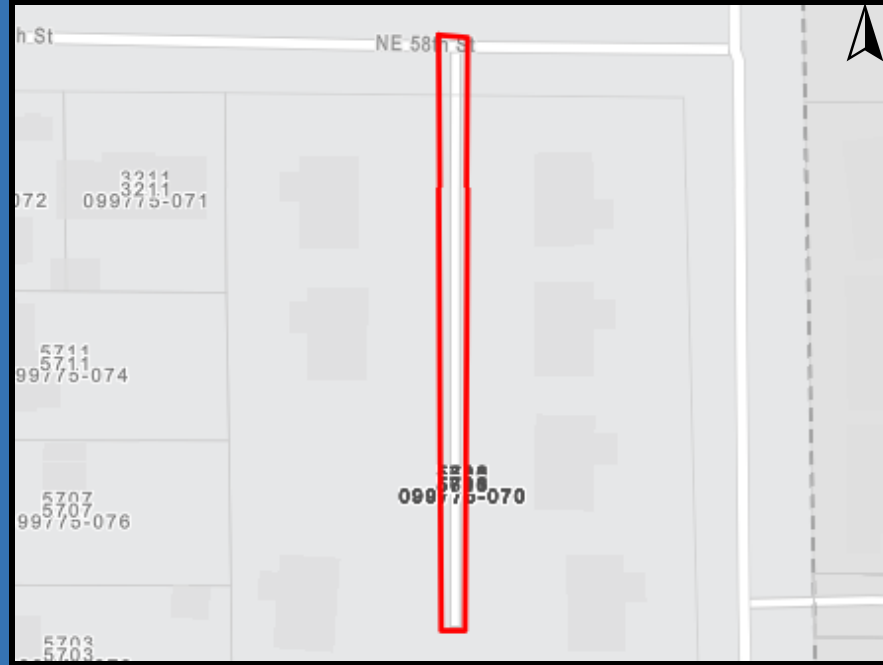
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: NE 33rd Ave Water Main Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

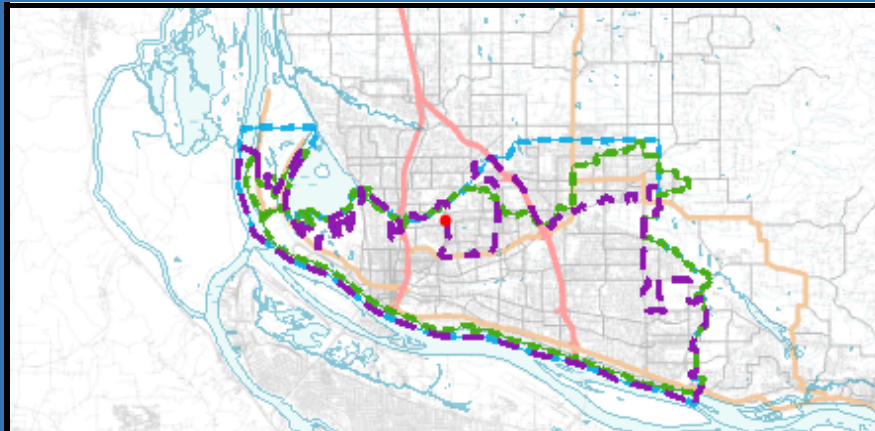
Project Description

Replace 345 ft of 2" galvanized pipe with 4" ductile iron pipe.





Project Justification

4 - Replace/preserve/rehabilitate systems

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100888

Grant Funded:

Total Project Cost: \$90,000.00

***Start of Const.:** 2024
(Year)

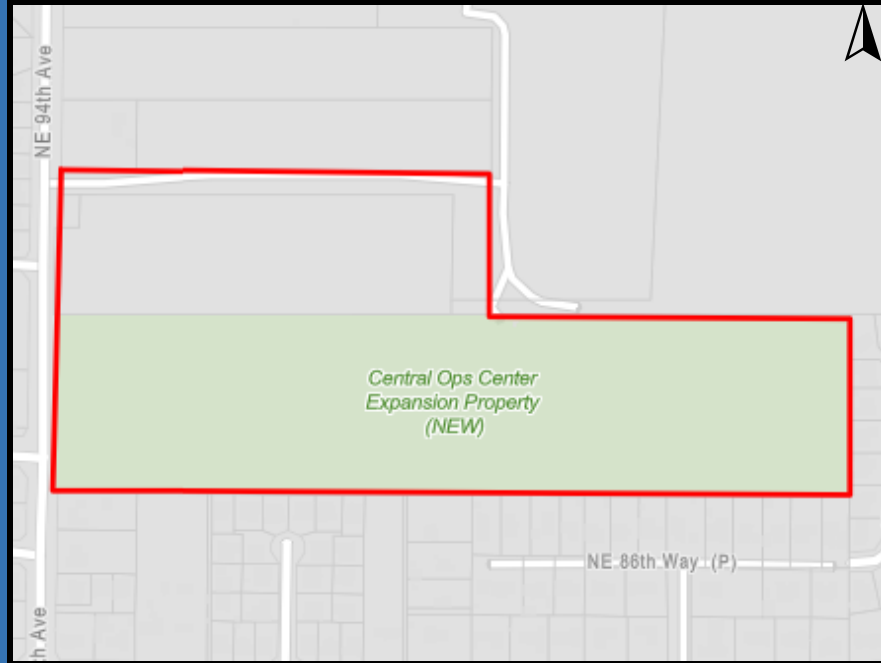
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Operations Center Redevelopment

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Active

PROJECT DESCRIPTION

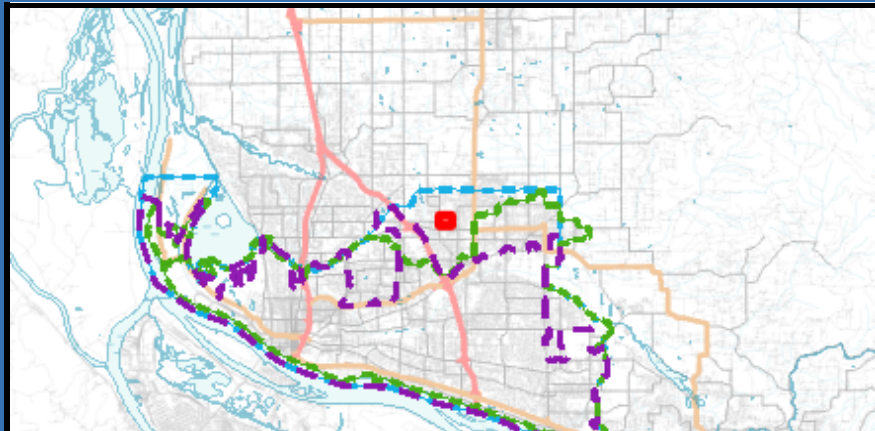
Project Description

Planning and design to build a new operations center campus.





Project Justification

3 - New systems; Current operations center is too small and not seismically resilient. The current operations center property is too small to replace the existing building with a new one.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$4,560,000.00

***Start of Const.:** 2023
(Year)

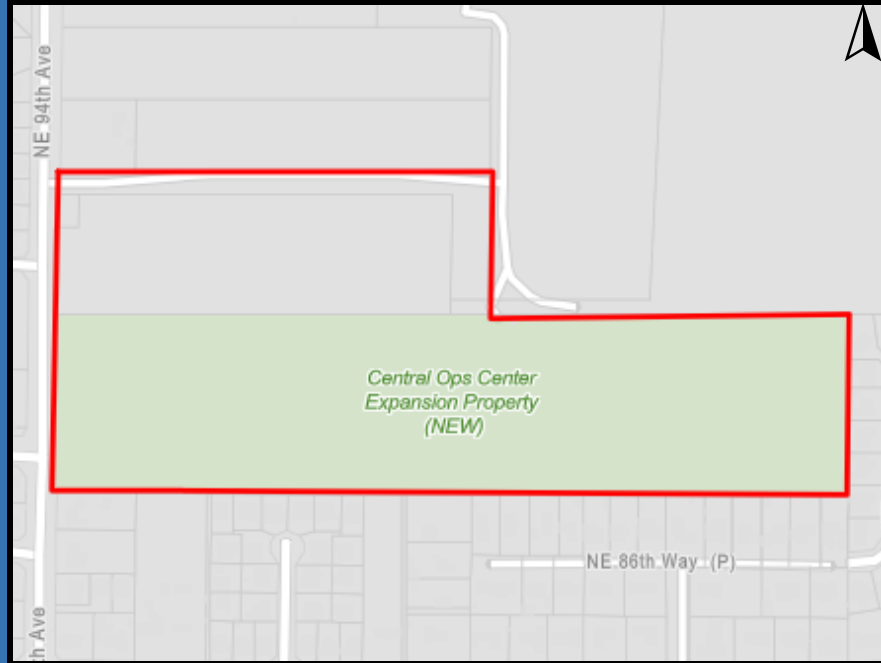
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Operations Center Construction

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

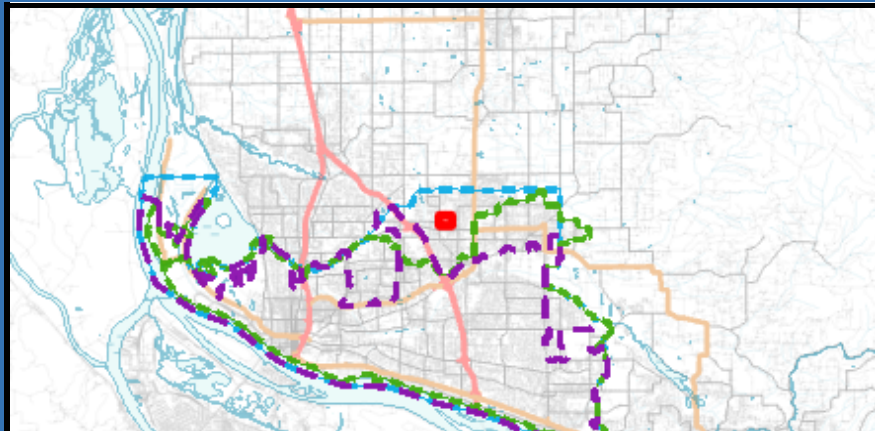
Project Description

Project will construct all site improvements and new buildings to provide a new, state of the art operations center to house all operations staff.

Project Justification

3 - New systems; Current operations center is too small and not seismically resilient. The current operations center property is too small to replace the existing building with a new one.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$75,000,000.00

***Start of Const.:** 2025
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

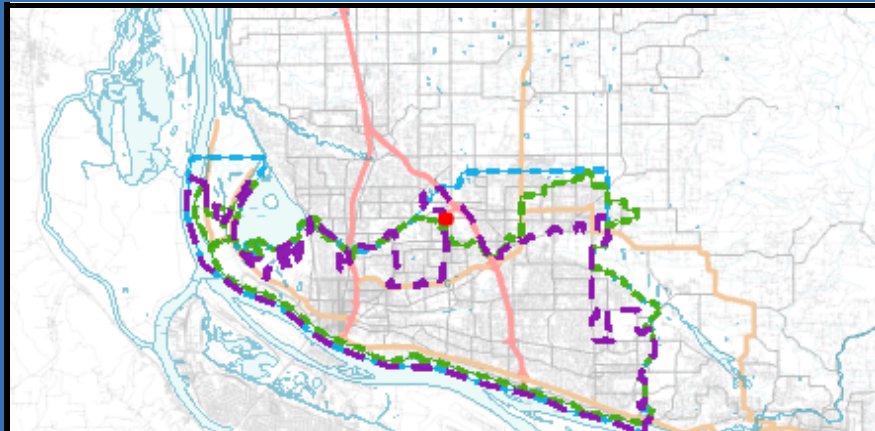
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Station 14 PFAS Treatment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Install filtration systems to remove PFAS from groundwater in order to meet federal regulations. Project has received \$12.8M in SRF funding through the state and will be reimbursed.

Project Justification

1 - Regulatory compliance; Projects is required in order to meet EPA maximum contaminant levels.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100893

Grant Funded: Yes

Total Project Cost: \$15,700,000.00

***Start of Const.:** 2024
(Year)

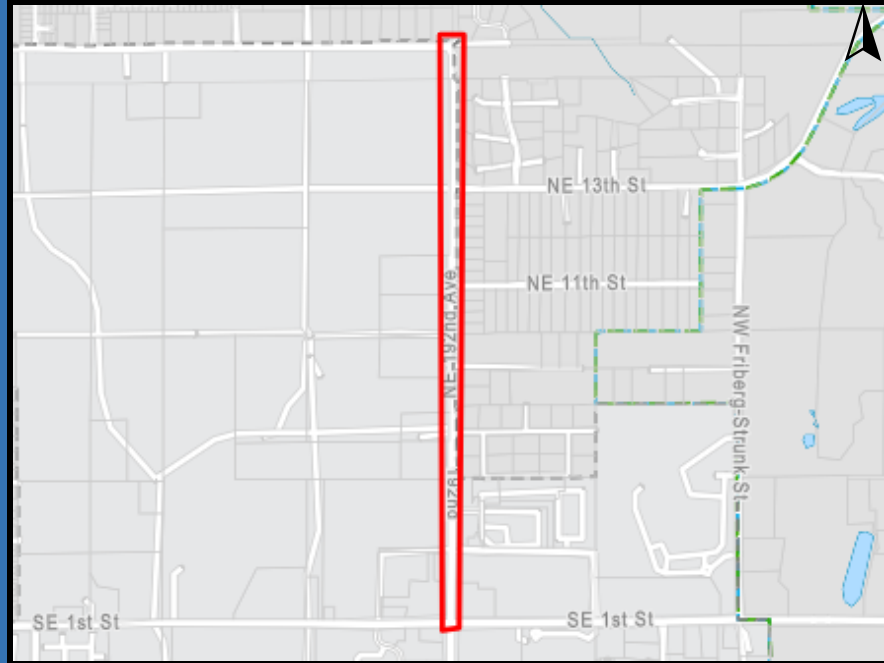
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

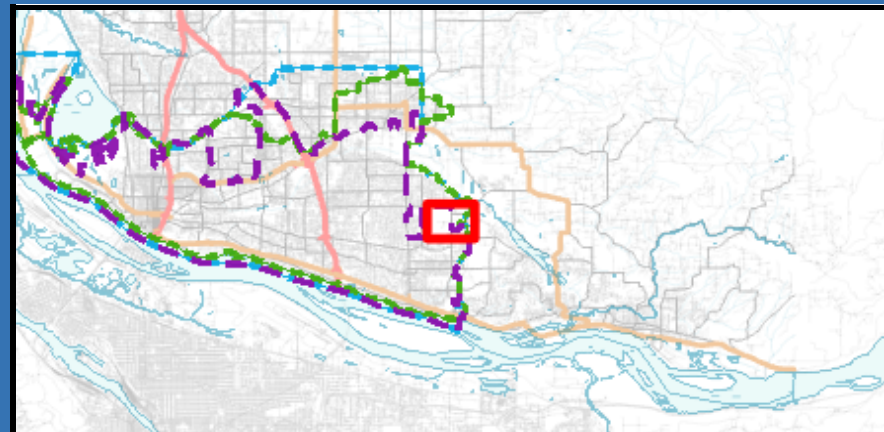
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **192nd Ave Transpo SE 1st to 18th**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION





Project Description

192nd Ave Transpo SE 1st to 18th.....

Project Justification

4-Replace/preserve/rehabilitate systems

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$900,000.00

***Start of Const.:** 2028
(Year)

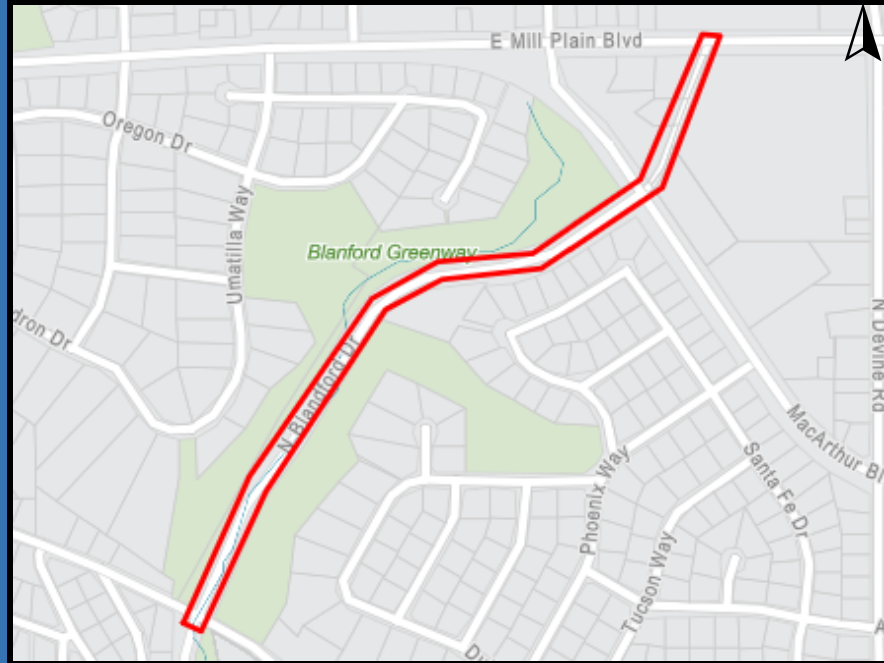
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

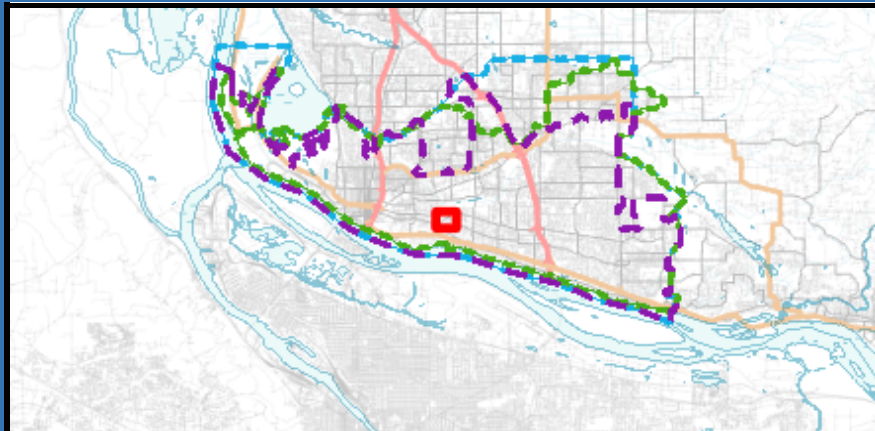
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Blandford (T-51) Options Modeling

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION





Project Description

Study to identify system pressure deficiencies and provide recommendations to expand existing transmission capacity.

Project Justification

3 New system or 4 - Replace/preserve/rehabilitate systems

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$20,000.00

***Start of Const.:** 2024
(Year)

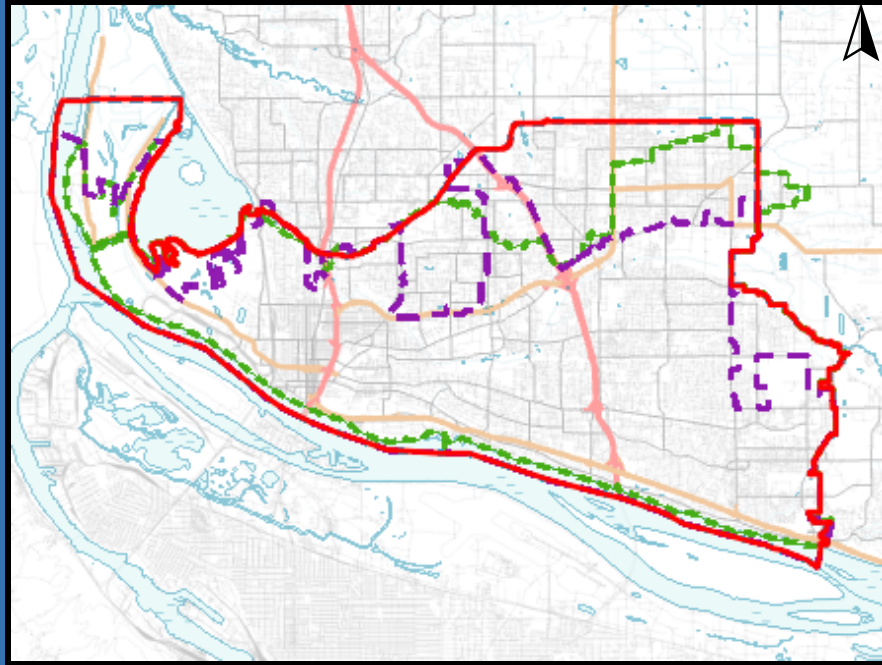
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

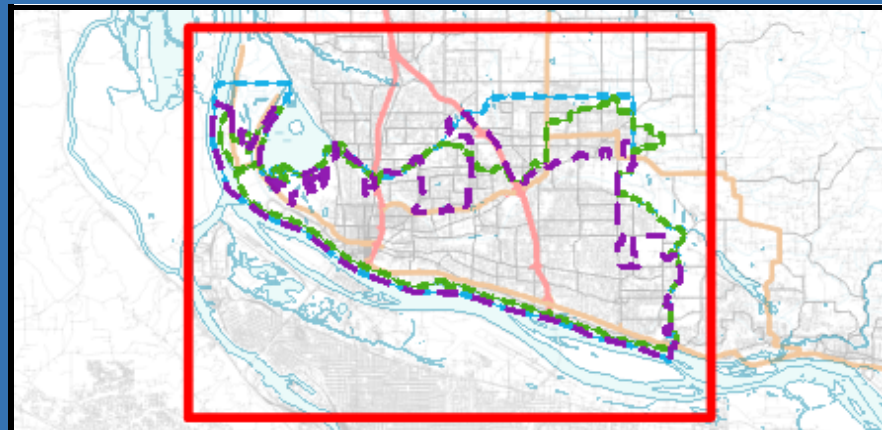
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **PFAS Study**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Our drinking water system is required to study system wide needs to meet new removal requirements for Per- and polyfluoroalkyl substances (PFAS) .

Project Justification

1 - Regulatory compliance: New treatment regulations require us to identify new treatment required across the system. First phase is system study in 2021/22, second phase will implement treatment process equipment throughout our water system.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100640

Grant Funded:

Total Project Cost: \$2,150,000.00

***Start of Const.:** 2021
(Year)

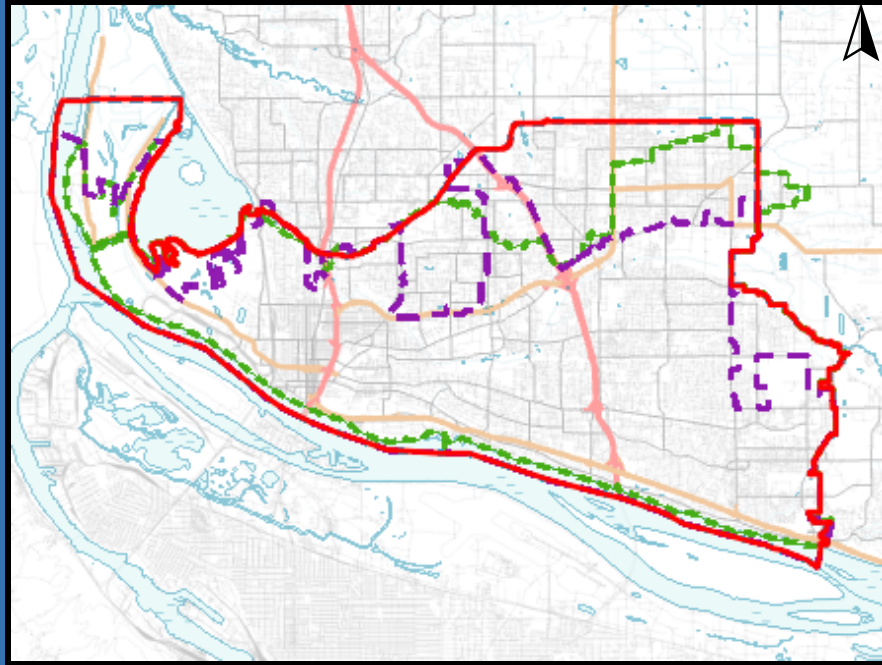
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

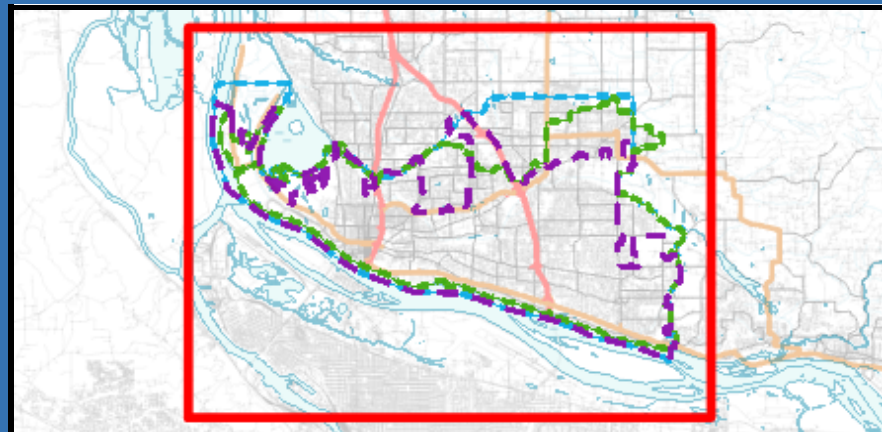
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: PFAS Treatment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Production
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Project is a placeholder for the funds necessary to build treatment systems and/or alternative sources of supply at all sources that exceed PFAS regulatory standards.

Project Justification

1 - Regulatory compliance; All water stations that exceed the final MCL issued by EPA that is expected in early 2024 will be required to either install treatment or find a new PFAS free water supply within 5 years of final regulation issuance.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$155,000,000.00

***Start of Const.:** 2025
(Year)

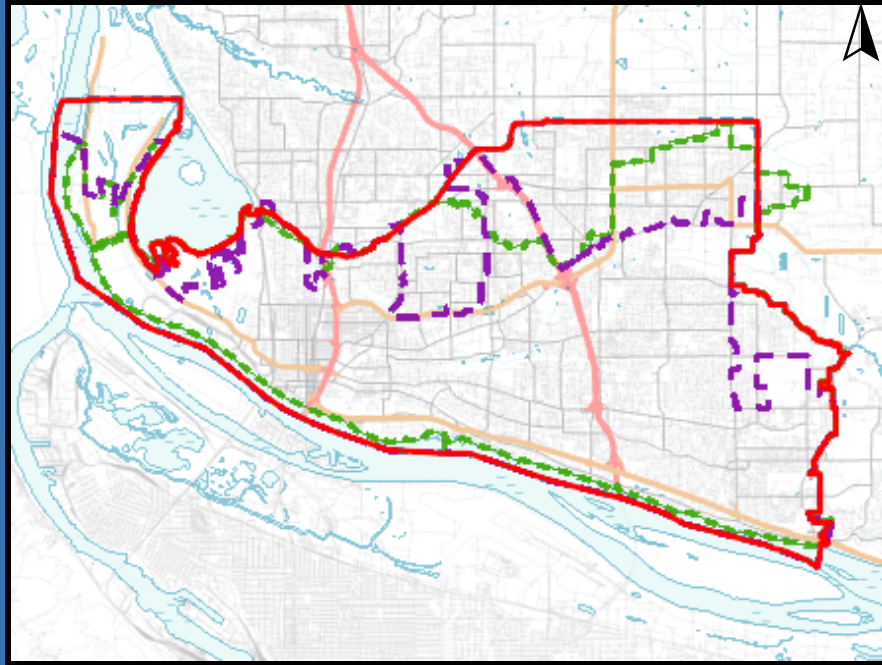
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

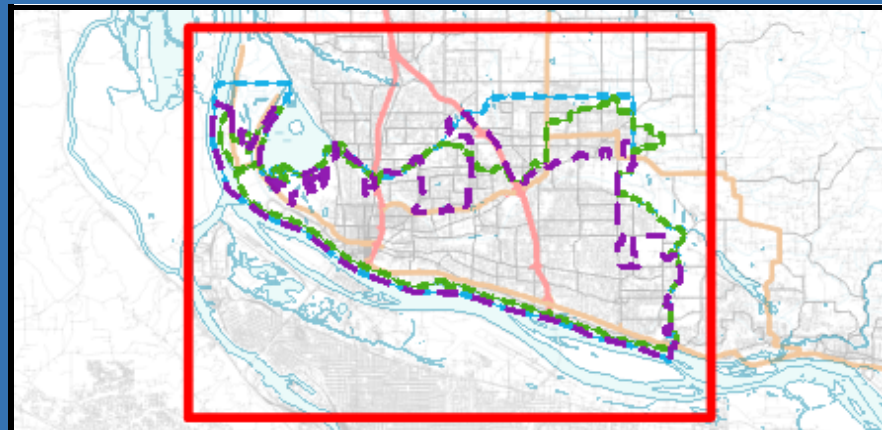
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: 2023-2024 Hydrant Repair and Replacement Project

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Project will replace old hydrants that do not have replacement parts available.

Project Justification

4 - Replace/preserve/rehabilitate systems; Ensures hydrants are operational throughout our system.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100798

Grant Funded:

Total Project Cost: \$260,000.00

***Start of Const.:** 2024
(Year)

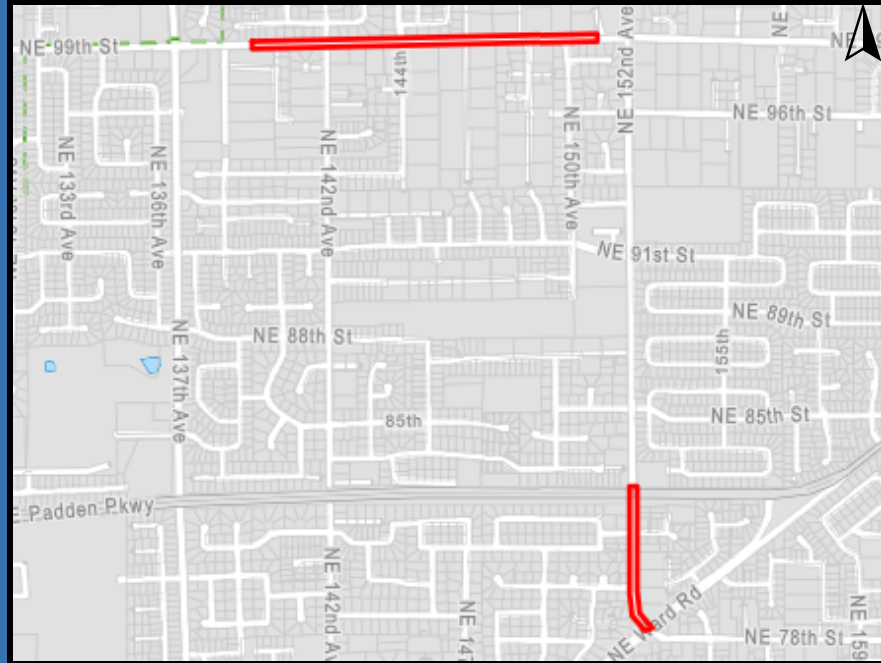
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **99th St - 140th Ct to 152nd Ave and 152nd Ave - Padden to Ward (T-33)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Water
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

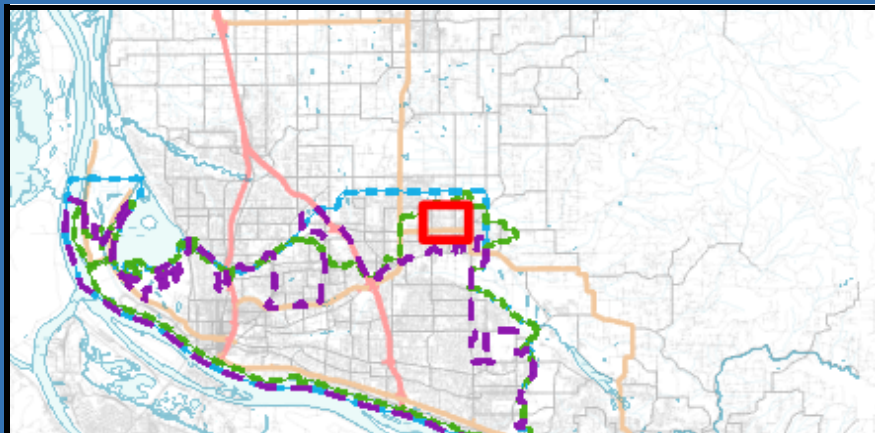
Project Description

Install new transmission main to increase system capacity.





Project Justification

3 - New system; Project will move water to developing areas in order to ensure pressure and flow are available for existing and future customers.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100722

Grant Funded:

Total Project Cost: \$2,490,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



20 YEAR CAPITAL IMPROVEMENT PROGRAM FOR WATER (2024-2044)

Note: All costs are in 2023 dollars
Updated August 2023

Description	Project Number	CIP #	Spent to Date (Start thru 2022)	2023**	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	20 Year Total
448 Water Construction Fund																										
Water Production Projects																										
Ellsworth Well Rehabilitation	PRJ100772	WTR-16			300,000								300,000								500,000					1,100,000
Water Station 6 Well/Treatment Install	TBD	WTR-69									2,000,000	12,000,000	8,000,000													22,000,000
Standpipe in NE	TBD	WTR-A1-18												200,000	3,000,000											3,200,000
Water Station 8 Replace Wells 2 & 3	TBD	WTR-68							1,300,000	1,300,000																2,600,000
WS 5 Reservoir, Pump, E-Power	PRJ100238	WTR-101	13,672,153	15,949,125	2,500,000																					2,500,000
WS 8 Hypo Gen System	PRJ100239	WTR-104	244	600,000	200,000																					200,000
WS 15 Hypo Gen System	PRJ100495	WTR-63		200,000	800,000																					800,000
Water Station 1: Replace Wells 3, 4, and 5	PRJ100490	WTR-44	34,082	1,500,000	2,000,000																					2,000,000
Water Station 3 Reservoir/Tower/Booster Replace	PRJ100492	WTR-53		1,175,000					13,000,000	9,000,000																22,000,000
Sodium Hypo Gen System WS 4	PRJ100774	WTR-145		200,000	1,000,000																					1,000,000
Treatment Regulations Compliance	TBD	WTR-A1-23															2,000,000	2,000,000								4,000,000
Study for Adding a 4th Pump at St. Johns WS 1	TBD	WTR-174					10,000																			10,000
Water Station 4 Replace Well 1	TBD	WTR-43											1,500,000													1,500,000
Water Station 15 Wells 1-4 Replacement	TBD	WTR-65				3,500,000	2,000,000																			5,500,000
Water Station 7 Greensand	TBD	WTR-154					300,000																			300,000
Reservoir Install Southeast	TBD	WTR-A1-22											1,000,000	4,500,000	2,500,000											8,000,000
Water Station 4 Well 4 Building Replacement	PRJ100240	WTR-67		80,905	600,000																					600,000
Study for Additional HH Tanks	TBD	WTR-175									20,000															20,000
WS 5 Internal Tower Coating	PRJ100241	WTR-106			230,000	400,000																				630,000
Westside Wellfield Property	TBD	WTR-A1-24											2,000,000													2,000,000
Ellsworth Greensand Replacement	TBD	WTR-155														1,000,000										1,000,000
Ellsworth Well Replacement	TBD	WTR-156						5,400,000																		5,400,000
Westside Wellfield Construction	TBD	WTR-A1-24																2,000,000	7,000,000	10,000,000	5,000,000					24,000,000
WS 5 Tank Upgrades and Ext Blast & Coating	TBD	WTR-172									2,500,000															2,500,000
WS 7 Tank Upgrades and Ext Over Coat	TBD	WTR-1027																	2,000,000							2,000,000
WS 6 Tank Ext Blast & Coating	TBD	WTR-1028																				1,800,000				1,800,000
PFAS Studies	PRJ100640	WTR-167	497,578	149,723	1,500,000																					1,500,000
PFAS Treatment	TBD	WTR-170				20,000,000	30,000,000	30,000,000	30,000,000	30,000,000	15,000,000															155,000,000
WS 7 Water Right Well	TBD	WTR-1029										2,000,000														2,000,000
WS 15 Water Right Wells/Treatment	TBD	WTR-1030												8,000,000												8,000,000
System MCC Electrical Upgrades	TBD	WTR-166								3,000,000						3,000,000	3,000,000	3,000,000								12,000,000
Heights High Groundwater Development Water Rights	PRJ100656	WTR-173	61,412	139,791	50,000																					50,000
WS 1 Wellhouse 11-13 Roof Replacement	TBD	WTR-171			120,000																					120,000
WS 14 PFAS Treatment System	PRJ100893	WTR-182			1,100,000	14,600,000																				15,700,000
SCADA Projects																										
SCADA PLC Hardware Upgrade	PRJ100504	WTR-A1-29	5,626	104,000	31,000									40,000	70,000	204,000										345,000
SCADA Software/HMI Hardware	PRJ100775	WTR-A1-29			16,000	216,000	23,000	204,000			53,000	41,000				216,000		113,000								882,000
Water Distribution Projects																										
PRV Flowmeters/SCADA System Connections	PRJ083332	WTR-A1-12	1,974	60,000	60,000																					60,000
Water Demand Response	PRJ083553	WTR-A1-27		300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	500,000	500,000	500,000	500,000	500,000	500,000	8,300,000
152nd Ave Transmission Main - Ward Rd 99th St (T-33)	PRJ100722	WTR-96	14,289	70,000	2,700,000																					2,700,000
Leak Abatement	PRJ100244	WTR-A1-3				600,000	1,000,000	1,000,000	1,600,000	1,600,000	1,000,000	1,700,000	1,700,000	1,000,000	1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	32,200,000
SCIP Coordination Projects	PRJ083563	WTR-A1-10			75,000	100,000	100,000																			275,000
SE 1st St - Transpo Coord - 164th Ave to 192nd Ave	PRJ100270	WTR-153	1,335		375,000																					375,000
Evergreen Blandford to Sleret 12" Replacement	TBD	WTR-1032										1,200,000														1,200,000
Jefferson St Realignment	TBD	WTR-161		10,000	160,000																					160,000
Main St Water - 5th to 15th*	PRJ100723	WTR-169	733	30,000	620,000																					620,000
Heights District Redevelopment	PRJ100713	WTR-185		652,065		2,000,000																				2,000,000
NE 30th Ave at 45th St Main	PRJ100887	WTR-178			50,000																					50,000
NE 33rd Ave at 58th St Main	PRJ100888	WTR-179			90,000																					90,000
NE 122nd Ave & 44th St Main	PRJ100882	WTR-188		140,000	460,000	395,000																				855,000
Alki Rd SCIP Coord	PRJ100887	WTR-186		100,000	25,000																					25,000
192nd Ave Transpo SE 1st to 18th	TBD	WTR-1031							900,000																	900,000
Other Water Projects																										
Water System Plan	TBD	WTR-A1-19			50,000	300,000	300,000								250,000	200,000										1,100,000
Operations Center Redevelopment	PRJ083491	WTR-180		1,800,000	2,760,000																					2,760,000
Operations Center Contruction	TBD	WTR-181				75,000,000																				75,000,000
2023-2024 Hydrant Repair and Replacement Project	PRJ100798	WTR-183			260,000																					260,000
New Projects Master Plan Distribution																										
Blandford (T-51) Options Modelling	TBD	WTR-1033			20,000																					20,000
New Projects Master Plan Transmission																										
18th St Trans Main-136th to 162nd (T-40 ph2)	TBD	WTR-119										2,410,000														2,410,000
Transmission Main - Burton Rd (T-34)	TBD	WTR-6				200,000	3,700,000																			3,900,000
9th St. to 18th St., 112th Ave. to 129th Ave. (T-36)	PRJ100778	WTR-127		200,000	5,300,000	700,000																				6,000,000
Chkalov Dr., south of Mill Plain Blvd. (T-45)	TBD	WTR-129				915,000																				915,000
Mill Plain Blvd. - 124th Ave. to 131st Ave. (T-46)	PRJ100779	WTR-130			825,000	675,000																				1,500,000
BNSF 4th Plain (T-3)	PRJ100724	WTR-168		263,499	2,370,000																					2,370,000
Lincoln to Main St Trans Main (T-4,5,6)	PRJ100499	WTR-165		1,100,000	700,000																					700,000
99th St - 140th Ct to 152nd Ave and 152nd Ave Padden to Ward (T-33)	TBD	WTR-1064			485,000	2,000,000																				2,485,000
WS 5 to Evergreen Trans Main Blandford (T-51)	TBD	WTR-120						1,500,000																		1,500,000
Water Total				24,824,108	28,132,000	121,901,000	37,733,000	38,404,000	47,100,000	45,200,000	20,873,000	19														

Sewer Utility



Sewer Utility Recent Financial History





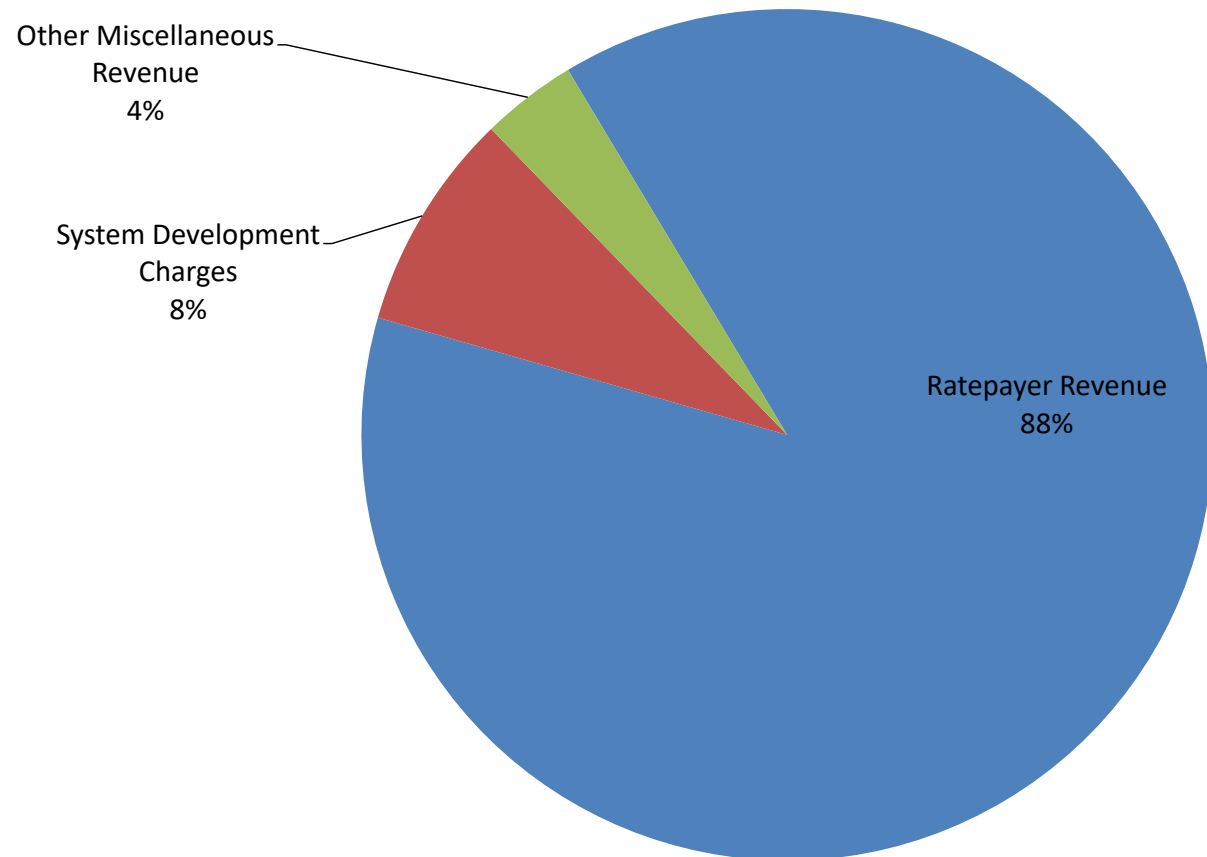
SEWER FUND ACTIVITY (2017-2022)

	2017	2018	2019	2020	2021	2022
Revenue						
Ratepayer Revenue	44,097,502	46,221,354	48,488,415	49,513,910	52,647,994	55,222,251
System Development Charges	3,388,484	5,392,397	4,260,484	4,550,640	5,812,866	5,217,719
Loan from 448			-	-	-	-
Transfer from 449		300,000	300,000	300,000	-	-
Transfer from 445			-	-	-	-
Grants			-	197,404	-	-
Other Miscellaneous Revenue*	<u>1,429,444</u>	<u>1,821,082</u>	<u>5,169,520</u>	<u>1,794,262</u>	<u>1,946,058</u>	<u>2,274,582</u>
Total Revenue	48,915,430	53,734,833	58,218,419	56,356,216	60,406,918	62,714,552
Expenses						
Salaries and Benefits	4,092,566	4,326,158	4,591,536	4,574,490	4,793,967	4,916,506
Supplies and Services	2,441,737	2,514,704	2,853,900	2,533,899	2,834,081	3,134,287
Treatment Plant Operations (Veolia)	9,653,370	8,429,429	10,094,217	7,888,373	8,284,466	9,419,546
Professional Services	441,504	1,630,039	419,763	646,781	986,939	799,947
Indirects and ER&R	<u>3,706,889</u>	<u>3,732,695</u>	<u>3,987,416</u>	<u>3,713,252</u>	<u>3,420,717</u>	<u>4,109,323</u>
Operations & Maintenance Expenses	20,336,066	20,633,025	21,946,832	19,356,795	20,320,170	22,379,609
Taxes and fees	11,567,646	12,505,146	14,446,459	15,680,236	16,608,832	17,423,351
Debt Service	7,564,975	6,927,123	4,320,185	4,325,680	0	0
Capital	6,526,165	6,601,298	12,802,915	12,486,861	9,274,107	13,851,726
Water Fund (Utilities Administration Allocation)	<u>1,484,043</u>	<u>1,531,326</u>	<u>1,649,269</u>	<u>1,659,733</u>	<u>1,709,525</u>	<u>1,760,811</u>
Expenses Subtotal	47,478,895	48,197,918	55,165,660	53,509,305	47,912,634	55,415,497
Depreciation	<u>7,166,559</u>	<u>7,399,184</u>	<u>7,967,783</u>	<u>7,967,783</u>	<u>7,677,109</u>	<u>7,685,599</u>
Total Expense	54,645,454	55,597,102	63,133,443	61,477,088	55,589,743	63,101,096

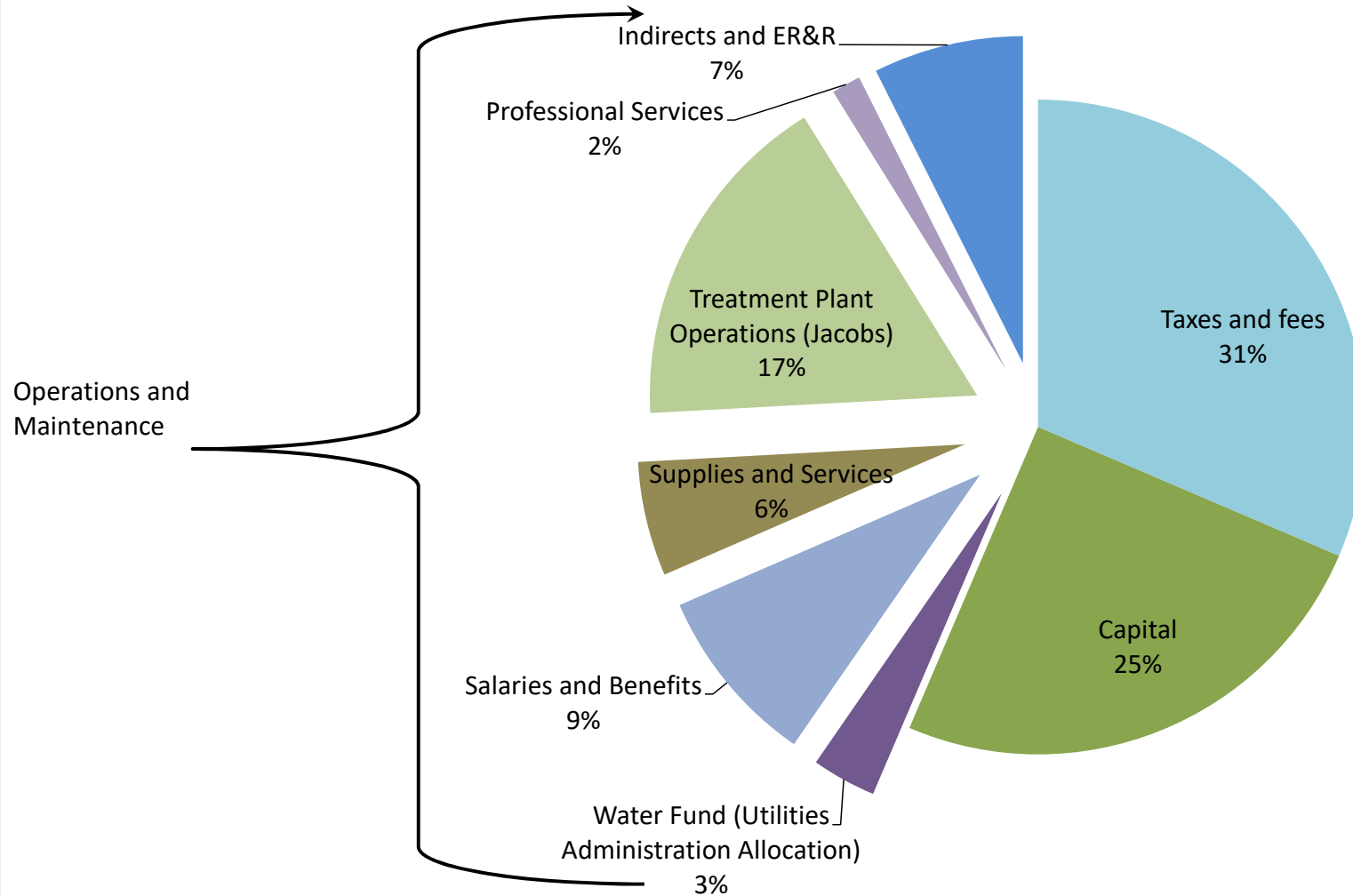
*Other Miscellaneous Revenues include items such as:

Septic Tank Receiving
Interest Earnings
Latecomer Fees

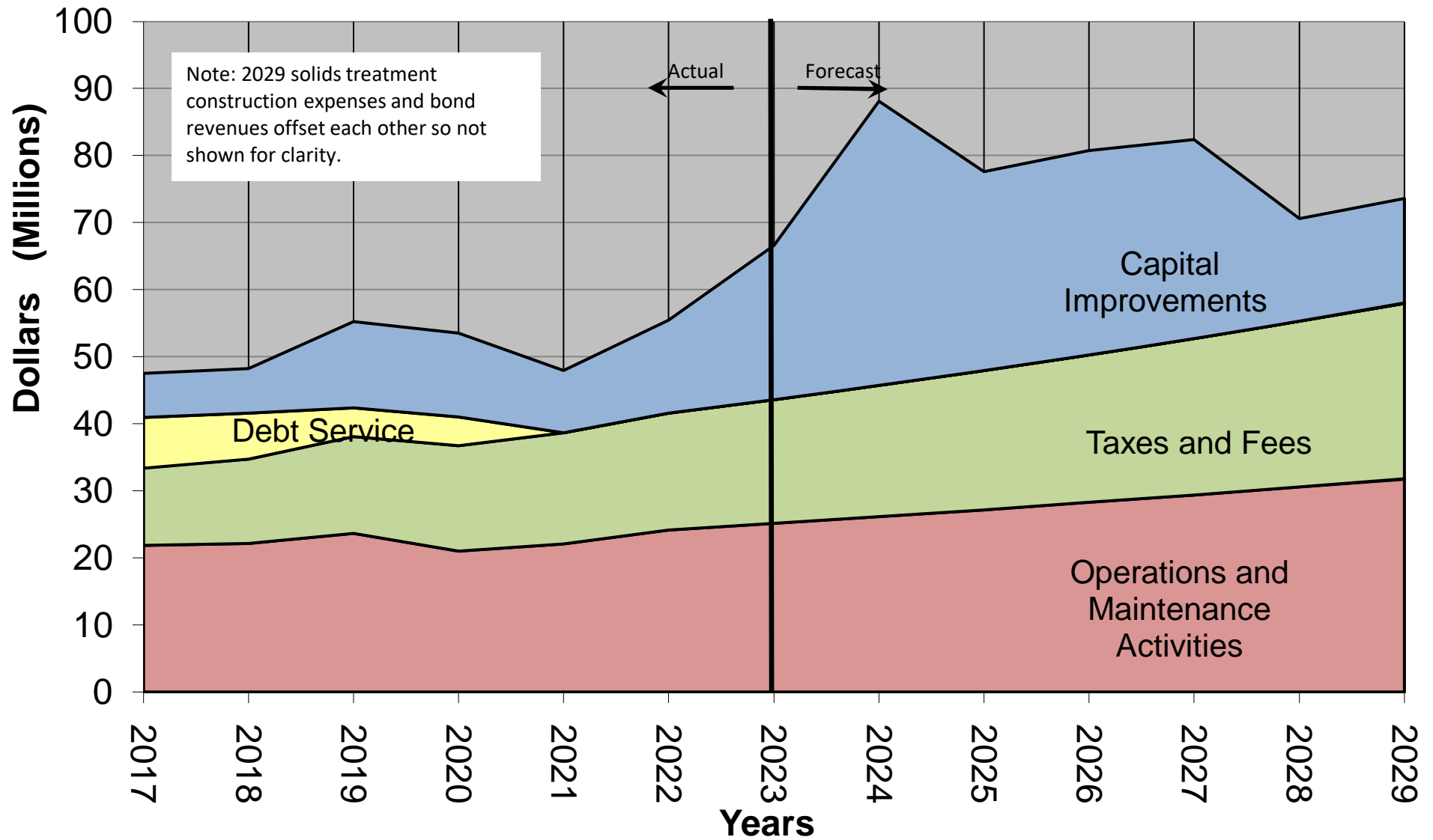
2022 Sewer Utility Revenues = \$62.7 million



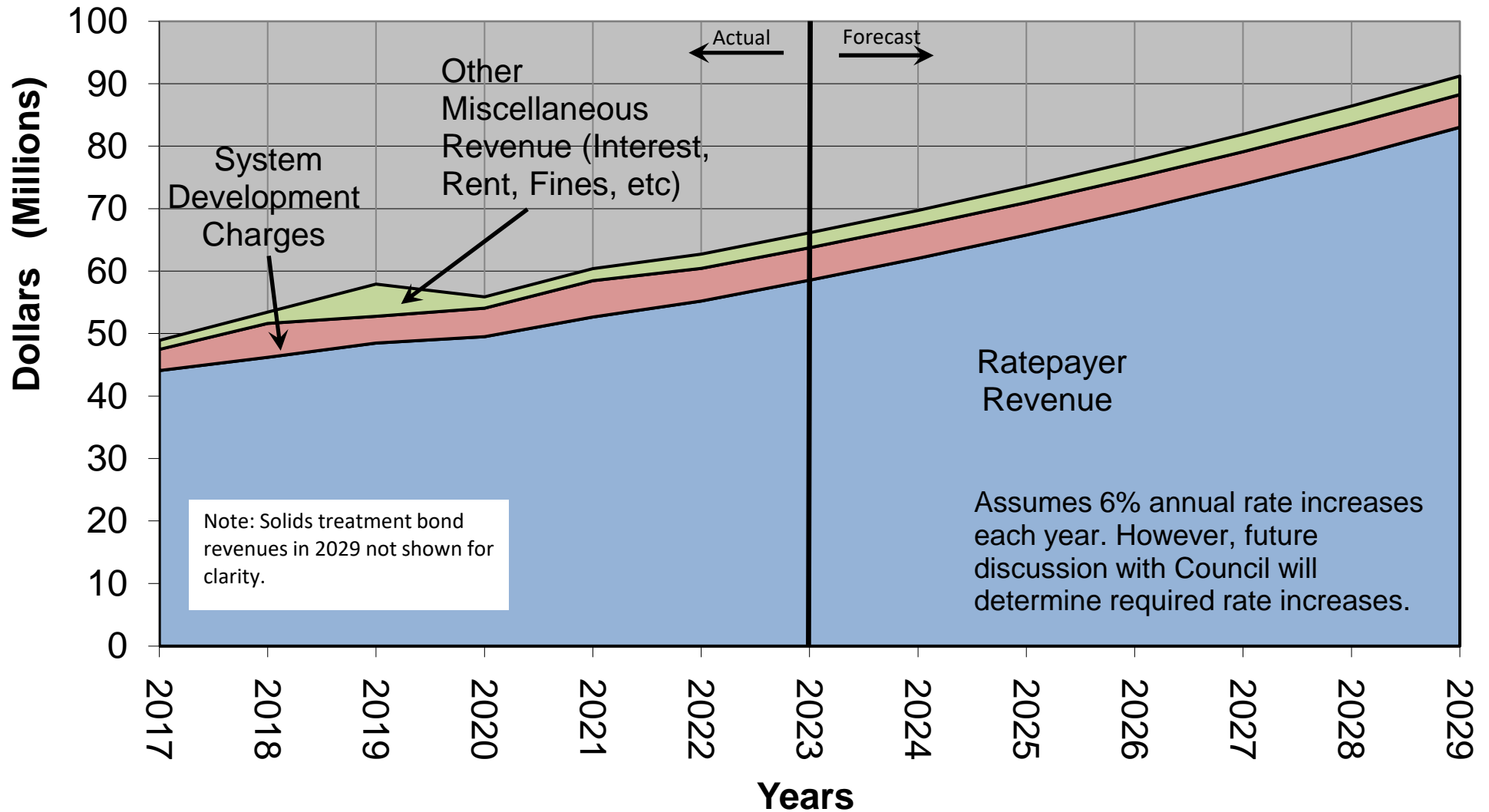
2022 Sewer Utility Expenses = \$55.4 million



Sewer Expenses (2017-2029)



Sewer Revenues (2017-2029)



Sewer Utility Project List



Sewer Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2022-2027) to this year's 6-year project list (2024-2029). The changes are segmented by: projects added, projects removed and other.

Projects Added	CIP Number	Comments
Collection:		
Franklin/Esther St Sewer Improvements	SS-188	New
Jefferson-Kauffman Sewer Improvements	SS-189	New
Pearson Pump Station Upgrade	SS-1050	New
G2 sewer Basin/Trunk Interceptor Realignment	SS-1051	New
AB-1 Rehab	SS-198	New
B 1-2 Rehab	SS-199	New
Service Area Flow Monitoring	SS-1065	New
WWTF:		
Marine Park Influent Pump Replacement	SS-178	New
SEH Industrial Pump Station	SS-195	New
Westside Treatment Capacity Expansion	SS-1052	New
Westside WWTF Buildings Coatings Project	SS-192	New
Marine Park Medium Voltage Upgrade	SS-1066	New
Westside Influent Pump Gallery Rehab	SS-1067	New
Westside Influent Screen Upgrade	SS-1071	New
Westside Incinerator Ash Drum Replacement	SS-1072	New
Westside Equipment and Parts Storage Building	SS-1073	New

Projects Removed	CIP Number	Comments
Collection System:		
Pinebrook Force Main Reroute	SS-10	Completed in 2022
63 rd St Pump Station Rebuild/Relocate	SS-140	Completed in 2022
G-1 Trunk Interceptor Rehabilitation	SS-155	Completed in 2022
Port Pump Station Rehabilitation	SS-162	Completed in 2021
Broadway Ph 2	SS-168	Completed in 2022
Broadway – 13 th to McLoughlin	SS-166	Completed in 2022
Southside Interceptor Rehab Ph 2	PRJ100261/SS-152	Completed in 2023
Southside Interceptor Rehab Ph 3	PRJ100262/SS-152	Completed in 2023
4 th & Washington Sewer Replacement	SS-169	Decided not to pursue
Earheart PS Removal and Gravity Extension	SS-170	Completed in 2023, renamed to NE 22 nd Ave PS Removal and Gravity Extension
WWTF:		
Andresen Pump Station Diversion Gate Valve	SS-93	Combined with SS-28
Westside Outfall Improvements	SS-171	Completed in 2023
Westside Blower	SS-147	Completed in 2023
Westside Schwing Pump Replacements	SS-80	Completed in 2023
Westside Grit Classifier Replacement	SS-174	Completed in 2023
Westside Wet Process Improvements	SS-71	Combined with SS-32
Secondary Clarifier Tank Coating 1 & 2	SS-92	Combined with SS-32
Westside Secondary Clarifier Center Well Upgrade 3, 4, 5	SS-116	Combined with SS-32
Marine Park Solids Conveyance Feasibility Study	SS-156	Completed in 2023
Main Industrial Pump Station Upgrade	SS-78	Completed in 2023

Lagoon:		
Lagoon Aeration Upgrade	PRJ100253/SS-102	Completed in 2022
Lagoon Upgrade Engineering Design	PRJ083712/SS-102	Completed in 2023

Other Changes	CIP Number	Comments
Collection System:		
Westridge/Fishers PS Force Main Assessment	SS-173	Changed name to reflect project more accurately
Maplecrest PS Reconstruction	SS-172	Changed name to reflect project more accurately
WWTF:		
Westside Solids Treatment Upgrades	SS-179	Changed name to reflect project more accurately
Industrial Coating Projects	SS-34	Changed name to reflect project more accurately
Marine Park Ph 2B – Secondary Process Enhancements	SS-177	Changed name to reflect project more accurately
Marine Park Ph 3 – Complete Full Site Capacity Improvements	SS-181	Changed name to reflect project more accurately
West 16 th St. Pump Station Improvements	SS-58	Changed name to reflect project more accurately
Westside Polymer Refurbish	SS-159	Changed name to reflect project more accurately
Westside Chemical Tanks Refurbish	SS-76	Changed name to reflect project more accurately
Marine Park Solids Conveyance	SS-178	Changed name to reflect project more accurately

Note: “Completed” indicates already completed as of the date of this document or anticipated completion prior to January 1, 2024.

6 YEAR CAPITAL IMPROVEMENT PROGRAM FOR SEWER COLLECTIONS AND WASTEWATER (2024-2029)

Note: All costs are in 2023 dollars
Updated August 2023

Project Name	Project Number	CIP #	Spent to Date (Start thru	2023**	2024	2025	2026	2027	2028	2029	6 Year Total
Collection											
Standby Power	PRJ083471	SS-A1-3	23,872	100,000	100,000	100,000	100,000	100,000	100,000		500,000
Main Street, 5th to 15th*	PRJ100790	SS-5	663	20,000	780,000						780,000
Heights District Redevelopment	PRJ100712	SS-182	178,635	142,765	1,000,000	550,000					1,550,000
IR - Interceptor Rehabilitation	PRJ083584	SS-A1-135		1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	12,000,000
Manhole/Wye Rehabilitation	PRJ100789	SS-A1-138		200,000	300,000	100,000	100,000	100,000	100,000	100,000	800,000
Basin A-20-1 & Force Main Relocation (59th Street)	PRJ100250	SS-1			500,000						500,000
Capital Preservation - Collection System	PRJ083591	SS-A1-6	2,603	2,000,000	3,000,000		4,000,000	4,000,000	4,000,000	4,000,000	22,000,000
SE 1st St. - SE 164th Ave. to SE 192nd Ave Design*	PRJ083594	SS-15	793	20,000	380,000						380,000
NE 137th Avenue - NE 49th St. to NE Fourth Plain Blvd*	PRJ100251	SS-20			640,000						640,000
Wastewater Collection SCADA	PRJ083711	SS-153	100,824	150,000	150,000	150,000	150,000	150,000	150,000		750,000
Southside Interceptor Rehab Ph 4 & Ph 5	PRJ100476	SS-152	210,020	3,500,000	1,000,000						1,000,000
Burnt Bridge Creek Interceptor - Ph 1	PRJ100755	SS-164		200,000	1,200,000						1,200,000
Burnt Bridge Creek Interceptor - Ph 2	TBD	SS-164			150,000						150,000
Burnt Bridge Creek Interceptor - Ph 3	TBD	SS-164			50,000						50,000
Burnt Bridge Creek Interceptor - Ph 4	TBD	SS-164			50,000						50,000
East - Interceptor Rehab PH 1 & PH 2	PRJ100478	SS-163	364,473	4,000,000	1,000,000						1,000,000
East - Interceptor Rehab PH 3	TBD	SS-163			200,000	2,200,000					2,400,000
East - Interceptor Rehab PH 4	TBD	SS-163				200,000	4,000,000				4,200,000
East - Interceptor Rehab PH 5	TBD	SS-163					200,000	2,000,000			2,200,000
East - Interceptor Rehab PH 6	TBD	SS-163							2,400,000		2,400,000
East - Interceptor Rehab PH 7	TBD	SS-163								2,500,000	2,500,000
Maplecrest PS Reconstruction	PRJ100657	SS-172	184,928	1,500,000	1,000,000						1,000,000
Pearson Pump Station Upgrade	PRJ100740	SS-1050	24,535	44,000	1,456,000						1,456,000
Franklin/Ether St. Sewer Improvements	PRJ100741	SS-188	13,475	12,500	587,500						587,500
G2 Sewer Basin/Trunk Interceptor Realignment	PRJ100848	SS-1051	9,378	226,000	1,674,000						1,674,000
Jefferson-Kaufman Sewer Improvements*	PRJ100682	SS-189	1,052		550,000						550,000
Service Area Flow Monitoring	PRJ100945	SS-1065			450,000						450,000
Section 30 Arterial Expansion	PRJ100475	SS-23						1,000,000			1,000,000
Westridge/Fishers PS Force Main Assessment	PRJ100660	SS-173	31,679		200,000	500,000					700,000
Collection Sub-Total				13,115,265	17,917,500	9,300,000	10,550,000	9,350,000	8,750,000	8,600,000	64,467,500
Treatment											
Marine Park WWTF:											
Marine Park Bar Screens Upgrade	PRJ100719	SS-160	59,396	669,800		2,600,000					2,600,000
Marine Park Phase 2B - Secondary Process Enhancements	TBD	SS-177		250,000	2,250,000	3,250,000					5,500,000
Marine Park - Refurbish Odor Control System	TBD	SS-85				1,000,000					1,000,000
Marine Park UV Upgrade	PRJ100718	SS-157		450,000	1,400,000						1,400,000
Marine Park Solids Conveyance	PRJ100768	SS-178		500,000	1,500,000		9,100,000	9,100,000			19,700,000
Marine Park WWTF Process Piping R&R	PRJ100766	SS-176		200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000
Marine Park Influent Pump Replacement	PRJ100878	SS-1061		400,000	400,000						400,000
Marine Park Medium Voltage Upgrade	TBD	SS-1066			200,000	200,000	400,000				800,000
Westside WWTF:											
Westside WWTF Process Piping R&R	PRJ100767	SS-180		200,000	200,000	300,000	300,000	300,000	300,000	300,000	1,700,000
Westside Influent Pump Gallery Rehab	TBD	SS-1067		300,000	1,700,000						1,700,000
Westside Sodium Hypochlorite Delivery	PRJ100720	SS-175				100,000					100,000
West 16th St. Pump Station Improvements	TBD	SS-58			200,000						200,000
West 16th St. Force Main Reline	PRJ083581	SS-131			150,000						150,000
Westside Odor Control Planning	PRJ100761	SS-81			100,000	500,000					600,000
Industrial Coating Projects	TBD	SS-34			250,000	250,000					500,000
Process Controls Electronics (Westside/Marine Park SCADA)	PRJ083626	SS-70	14,544,154	400,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000
Westside - Centrifuge #1 System Replacement	PRJ100484	SS-87	13,229	370,270	1,700,000						1,700,000
Westside Polymer Refurbish	PRJ100762	SS-159		100,000	400,000						400,000
Westside Electrical Upgrades	PRJ083714	SS-161	1,257,499	1,700,000	750,000	200,000	200,000	200,000	200,000	200,000	1,750,000
Westside WWTF Buildings Coatings Project	PRJ100595	SS-192	32,948		100,000	100,000	100,000				300,000
Westside Chemical Tanks Refurbish	PRJ083608	SS-76			100,000	100,000	100,000	100,000	100,000	100,000	600,000
Westside Solids Planning	PRJ100721	SS-167	97,568	528,800	1,500,000	2,000,000					3,500,000
Westside Solids Treatment Upgrades	TBD	SS-179						5,000,000	5,000,000	40,000,000	50,000,000
Westside Influent Screens Upgrade	TBD	SS-1071			300,000						300,000
Westside Incinerator Ash Drum Replacement	TBD	SS-1072			650,000						650,000
Westside Equipment and Parts Storage Building	TBD	SS-1073					2,000,000				2,000,000
Other:											
Capital Preservation and Compliance	PRJ083621	SS-32	51,568	210,000	1,050,000	2,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,050,000
Burnt Bridge Creek Pump Station Upgrade	PRJ100256	SS-28	180,412	560,000	2,000,000	2,000,000					4,000,000
SEH Industrial Pump Station	PRJ100915	SS-195		350,000	1,000,000						1,000,000
Treatment Sub-Total				7,188,870	18,300,000	15,000,000	15,600,000	18,100,000	9,000,000	44,000,000	120,000,000
Sewer Grand Total				20,304,135	36,217,500	24,300,000	26,150,000	27,450,000	17,750,000	52,600,000	184,467,500

*Project timing is dependent upon the timing of the overriding project (e.g. TIP projects).

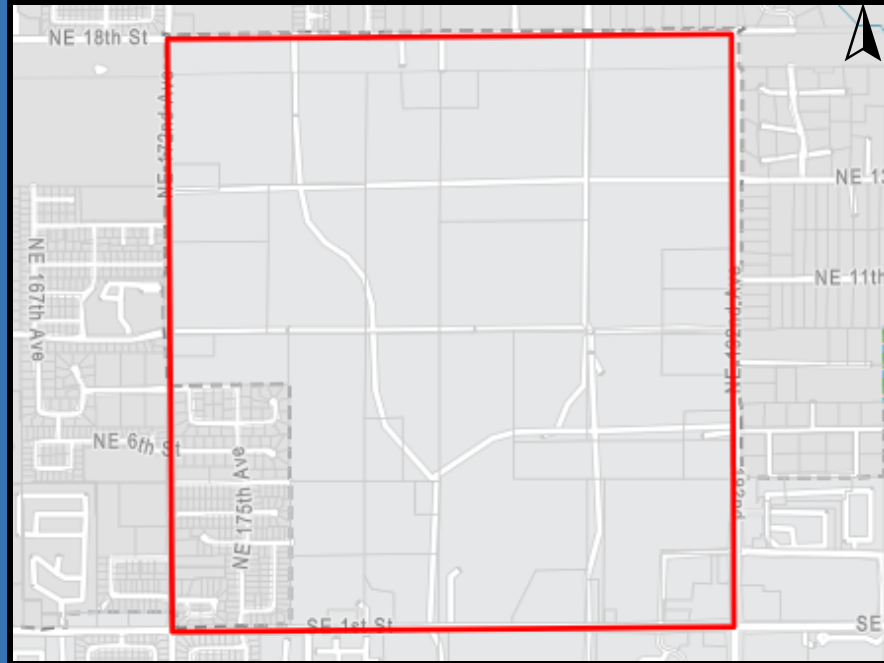
**2023 Amounts include revised delivery amount or actual spent in 2023 (as of August), whichever is higher.

Shading indicates not included in 6-year plan, but money expected to be spent in 2023

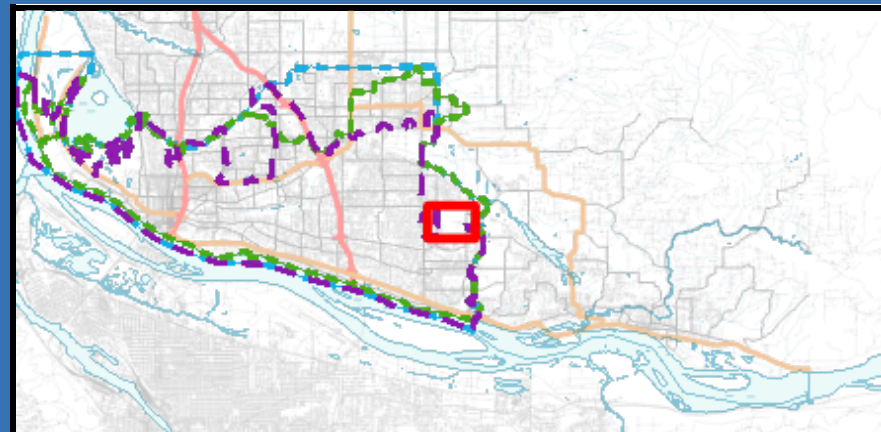
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Section 30 Arterial Expansion

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project budget to install sewer mains in SE 1st St during Transportation's SE 1st St (Sec. 30) Arterial Expansion Project.

Project Justification

3 - New systems - To install new sewer mains in the Transportation's Section 30 (SE 1st St) Arterial Expansion Project as identified in the Transportation Improvement Program. Timing is dependant on the Transportation project. Project budget is based on an estimate of 17,000 feet of 12-inch main.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100475

Grant Funded:

Total Project Cost: \$1,000,000.00

***Start of Const.:** 2027
(Year)

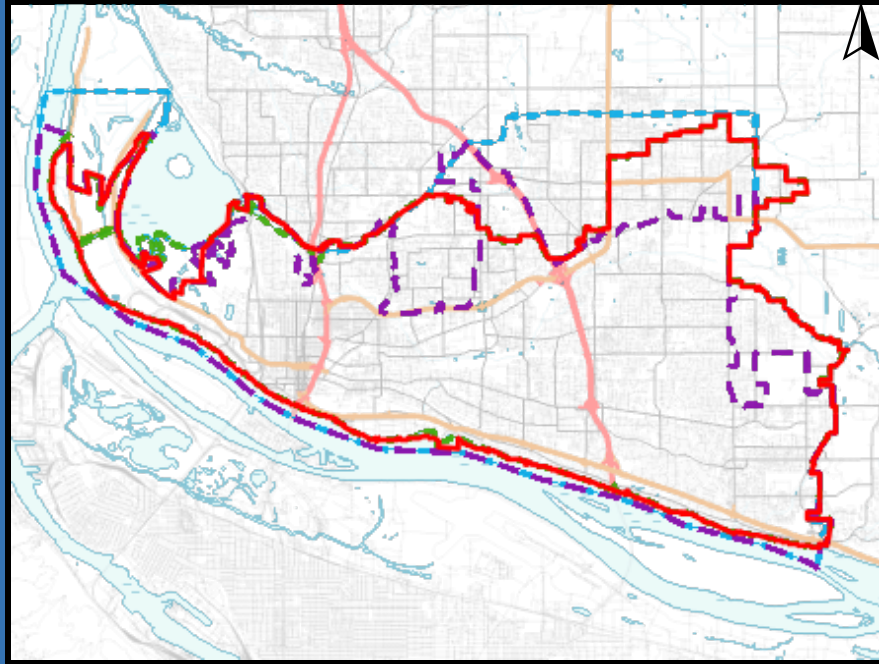
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

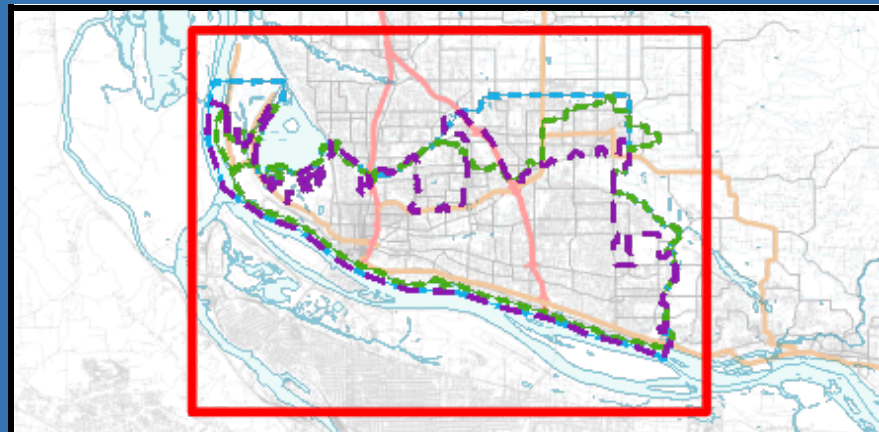
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Standby Power**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Install permanent emergency power standby generators at selected sewer pump stations.

Project Justification

2 - Improve reliability/operability/maintainability - Initial project was completed in 2016 for \$35,000. Multiyear program for installation of emergency power standby generators at selected sewer pump stations. Backup power increases system reliability, by reducing risks of backups, staff overtime, and provides better use of emergency response resource.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083471

Grant Funded:

Total Project Cost: \$500,000.00

***Start of Const.:** Ongoing
(Year)

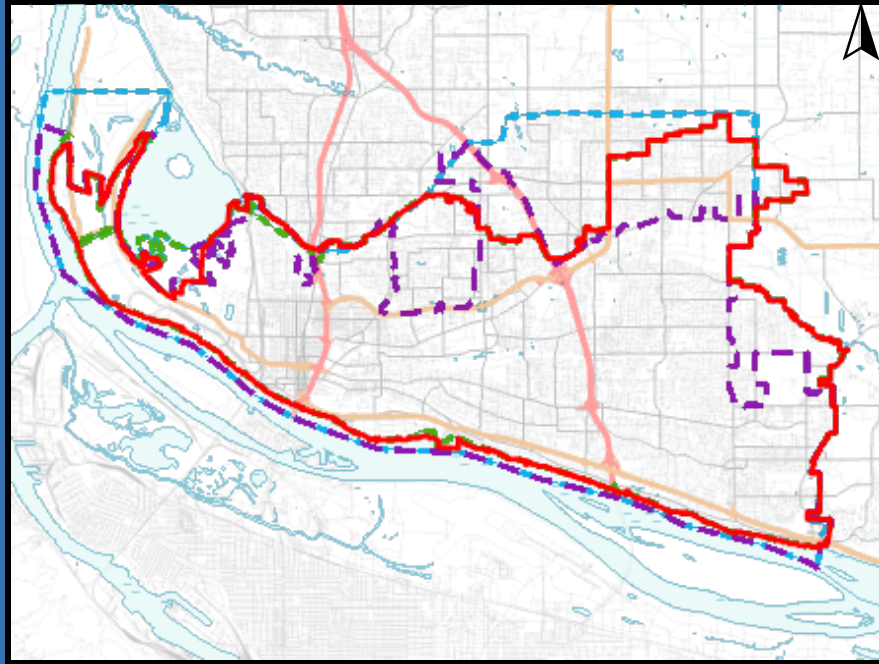
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

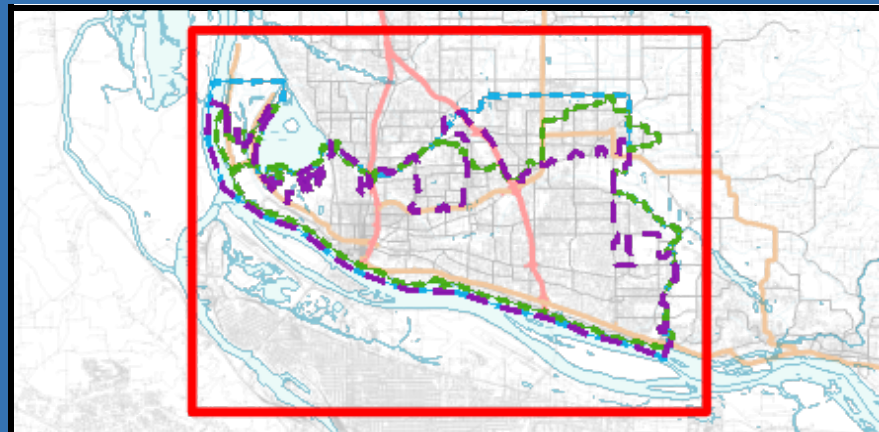
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Capital Preservation - Collection System

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Multi year program to rehabilitate sewer mains shown to be failing due to sewerline condition.

Project Justification

4 - Replace/preserve/rehabilitate systems: To replace/repair assets that have reached the end of useful service life. Multiyear program driven by field inspection data collected by our ongoing TV inspection condition assessment program. Field inspections show these pipes are in deteriorated condition and in need of restoration.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083591

Grant Funded:

Total Project Cost: \$4,000,000.00

***Start of Const.:** Ongoing, Cost per year

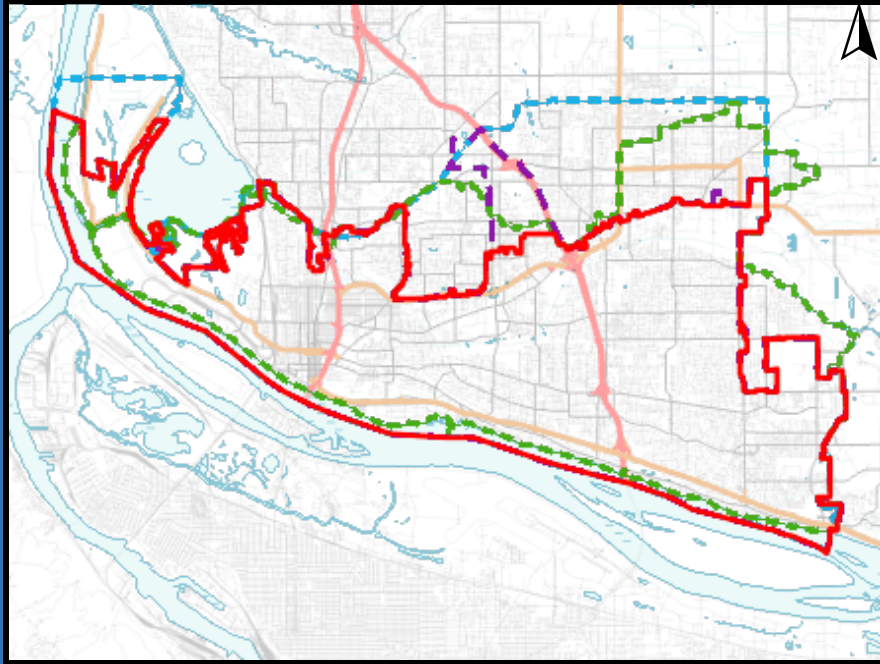
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

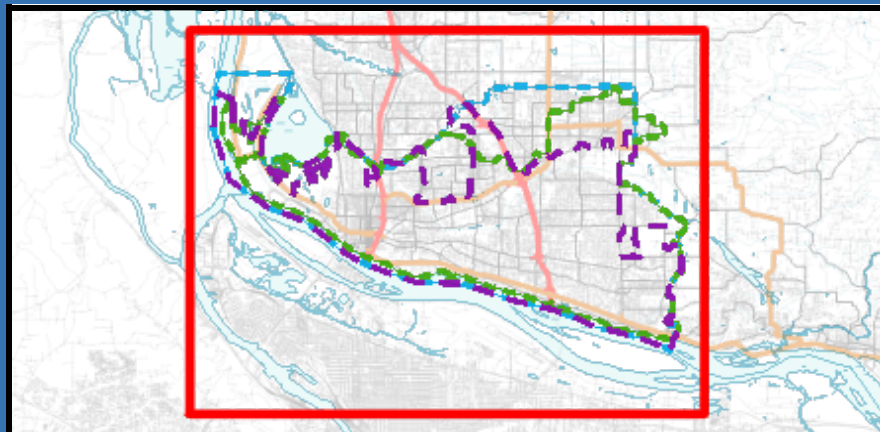
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: IR - Interceptor Rehabilitation Program

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Rehabilitate our largest pipelines based on the 2016 Sewer Interceptor Condition Assessment study results and recommendations.

Project Justification

4 - Replace/preserve/rehabilitate - to complete prioritized list of needed rehabilitation projects as identified in the 2016 Sewer Interceptor Condition Assessment study. This project designs and contracts for needed interceptor repairs, according to prioritized project lists based on actual condition information and estimated asset risk of loss for unplanned failure.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083584

Grant Funded:

Total Project Cost: \$2,000,000.00

***Start of Const. (Year)** Ongoing, Cost per year

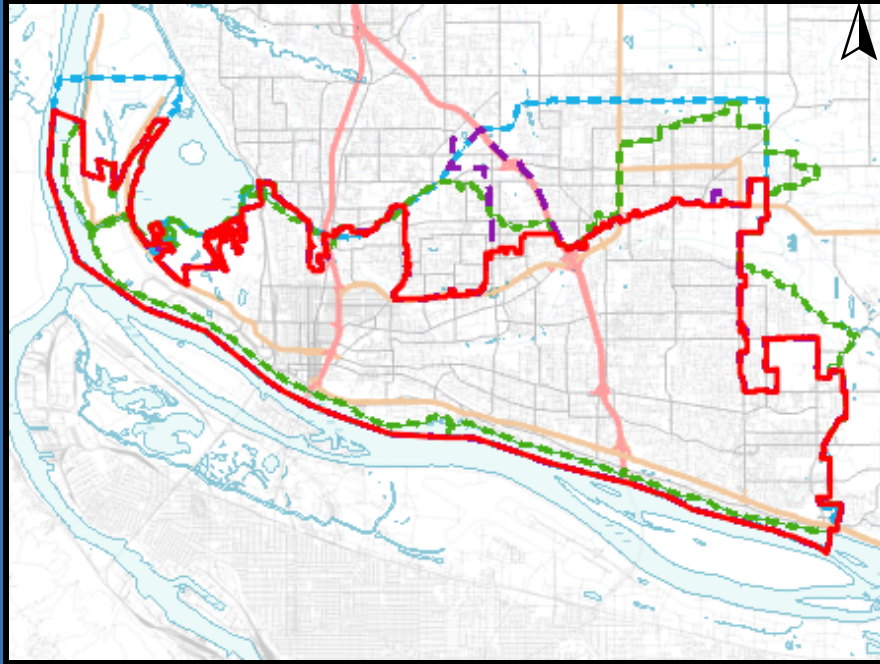
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

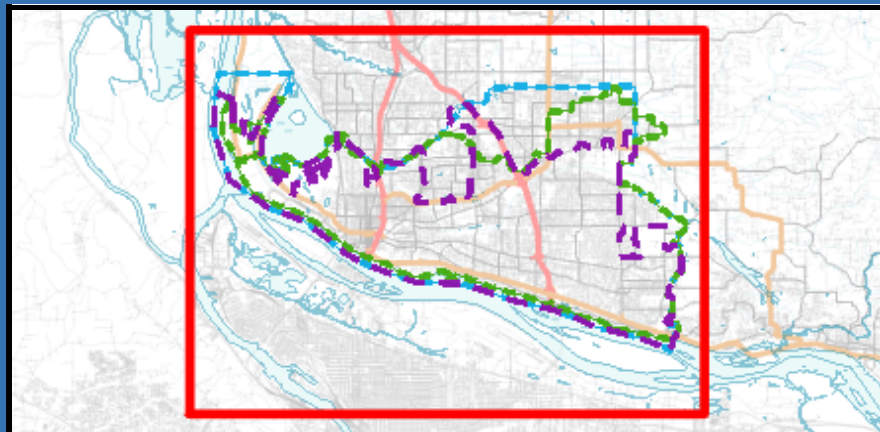
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Manhole/Wye Rehabilitation

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Yearly program (\$100,000/yr) to rehabilitate system manholes and pipeline wyes.

Project Justification

4 - Repair/preserve/rehabilitate: For repair of documented Inflow and Infiltration sources and reduce/eliminate Inflow & Infiltration into the sewer collection system.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100789

Grant Funded:

Total Project Cost: \$100,000.00

***Start of Const.:** Ongoing, Cost per
(Year) year

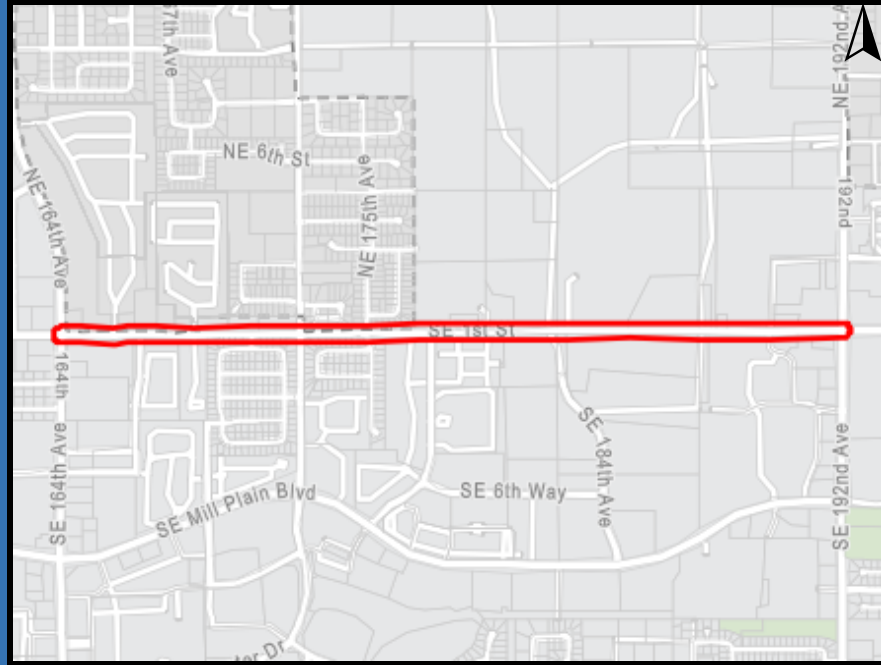
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

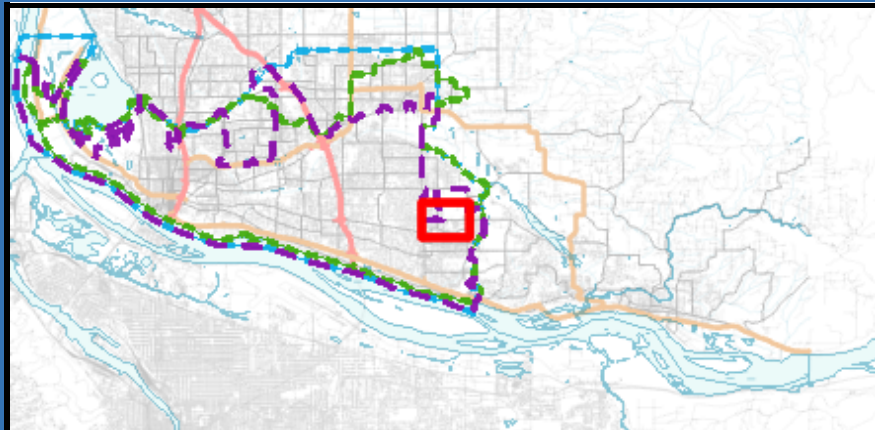
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SE 1st St - SE 164th Ave. to SE 192nd Ave. Design**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project for sewerline design of needed public sewer stubs and/or laterals in SE 1st St, to serve new development in Section 30.

Project Justification

3 - New systems; to provide reliable sewer capacity to serve area growth near Section 30. This Roadway Coordination project will fund project design to install needed stubs and/or laterals in SE 1st St, to provide sewer to developing parcels in and near Section 30. The project design (and construction) will be included within the Transportation project to widen SE 1st St. Sewer line construction timing is dependent on the Transportation project. Funding is for sewer line design to be included in transportation contract drawings. Transportation construction is unfunded.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083594

Grant Funded:

Total Project Cost: \$400,000.00

***Start of Const.:** 2023-2024
(Year)

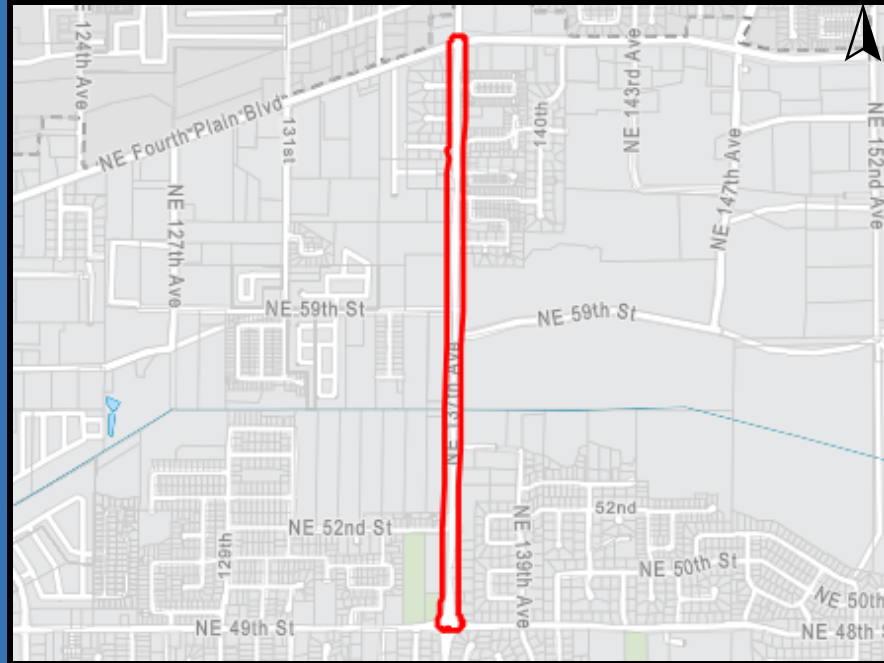
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

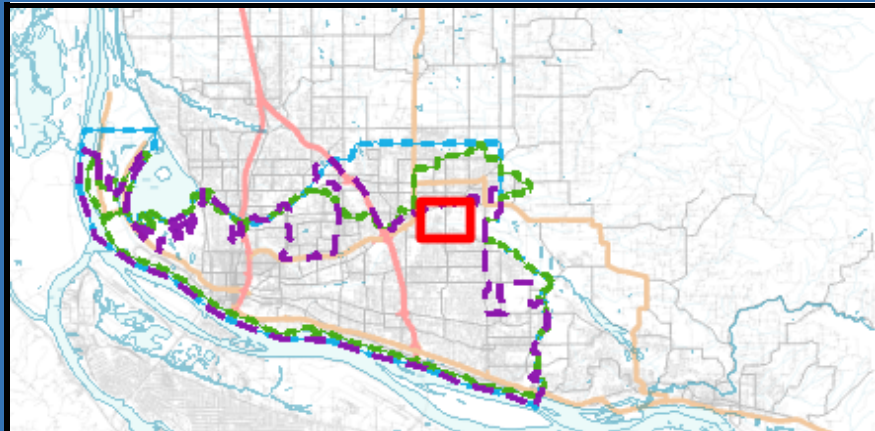
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 137th Avenue - NE 49th St. to NE Fourth Plain Blvd.**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project to install approximately 2,600 feet of 8-inch main, to provide sewer to unsewered parcels.

Project Justification

3 - New systems to provide sewer capacity in unsewered arterial corridor. This project will take advantage of the proposed road improvements to install new main to serve unsewered parcels. By combining with a road improvement project, construction costs are reduced significantly. The project design and construction will be included within the Transportation project to widen NE 137th Ave. Timing is dependent on the Transportation project, currently unfunded.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100251

Grant Funded:

Total Project Cost: \$640,000.00

***Start of Const.:** 2023-2024
(Year)

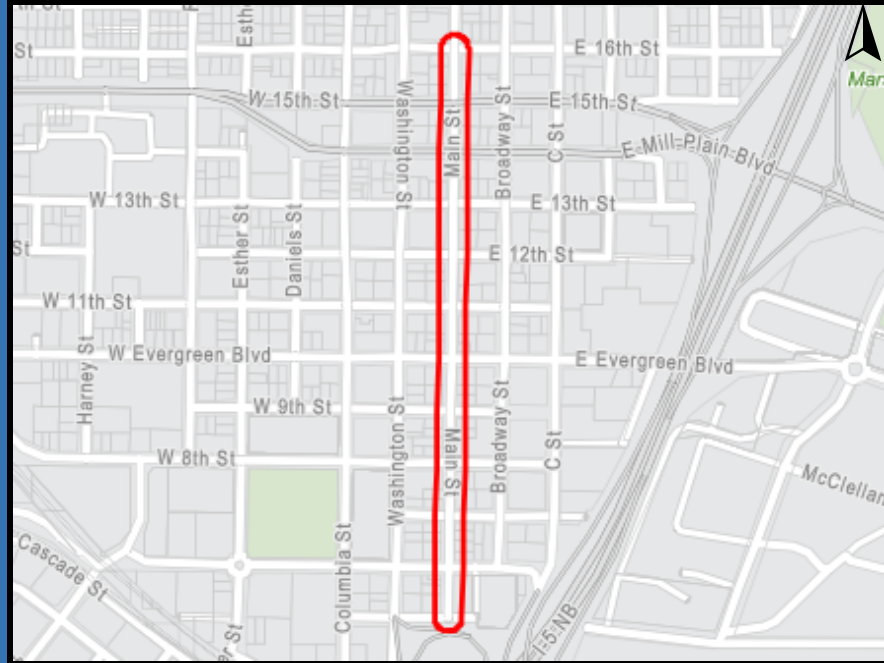
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

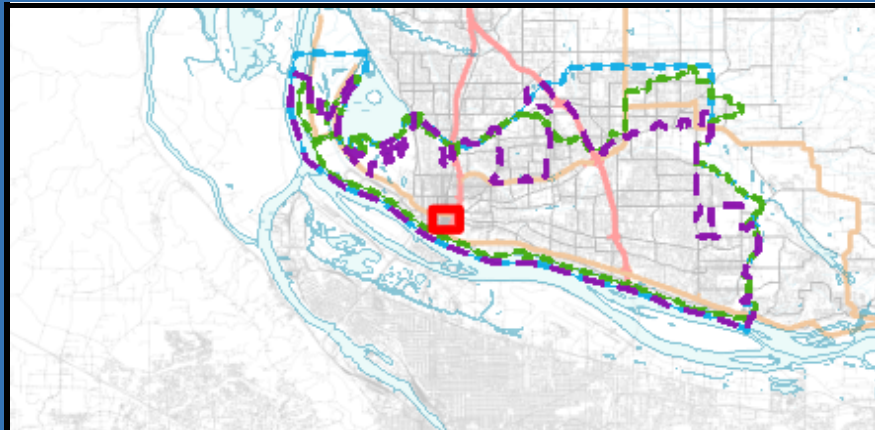
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Main Street - 5th St. to 15th St.**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Roadway Coordination project -Replace 1,900 ft of original (1890) clay mains in Main St.

Project Justification

4 - Replace/preserve/rehabilitate systems -- to replace and rehabilitate our oldest mains, (Installed 1890's in Vancouver's first sanitary sewer project), to extend the reliable asset service life. Our oldest mains will be replaced in coordination with planned Transportation Improvement Program improvements in Main Street. Sewer line construction will be triggered if the TIP Project moves ahead. Sewer CIP design will be included in the Transportation CIP project plan set.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100790

Grant Funded:

Total Project Cost: \$800,000.00

***Start of Const.:** 2023-2024
(Year)

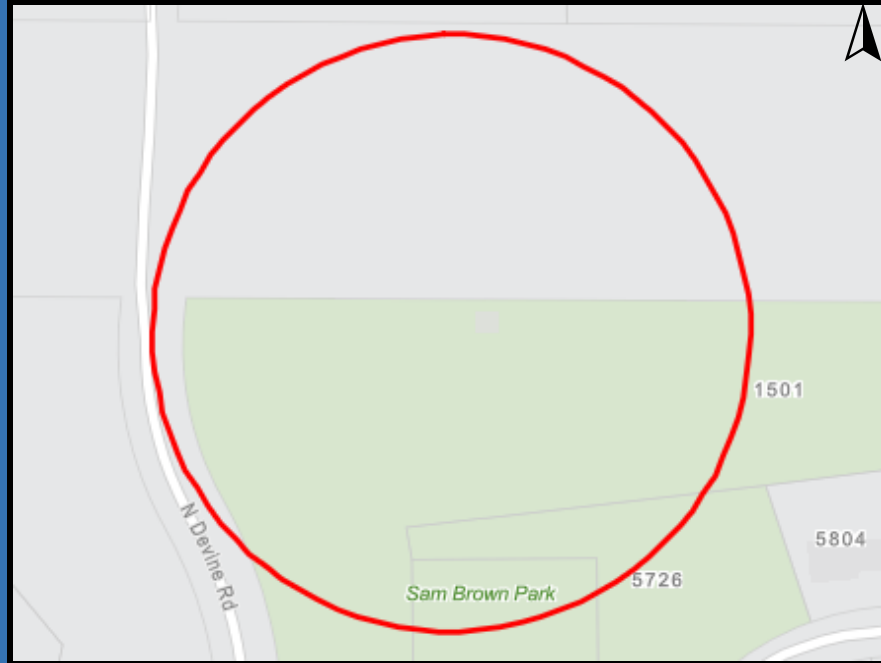
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

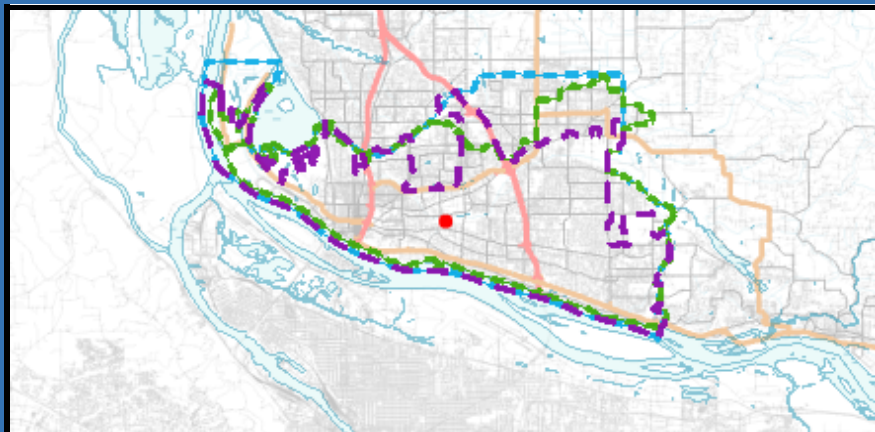
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Burnt Bridge Creek Pump Station Upgrade**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Burnt Bridge Creek Pump Station - rehabilitate existing mechanical systems & pump motors

Project Justification

4 - Replace/preserve/rehabilitate systems - This project repairs the piping from BBC interceptor into the BBC pump station wet well and installs a diversion gate at Andresen pump station (In Mill Plain near Tower Mall). This also replaces pump, motors, drives and mechanical fittings to activate the pump station.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100256

Grant Funded:

Total Project Cost: \$7,750,000.00

***Start of Const.:** 2022
(Year)

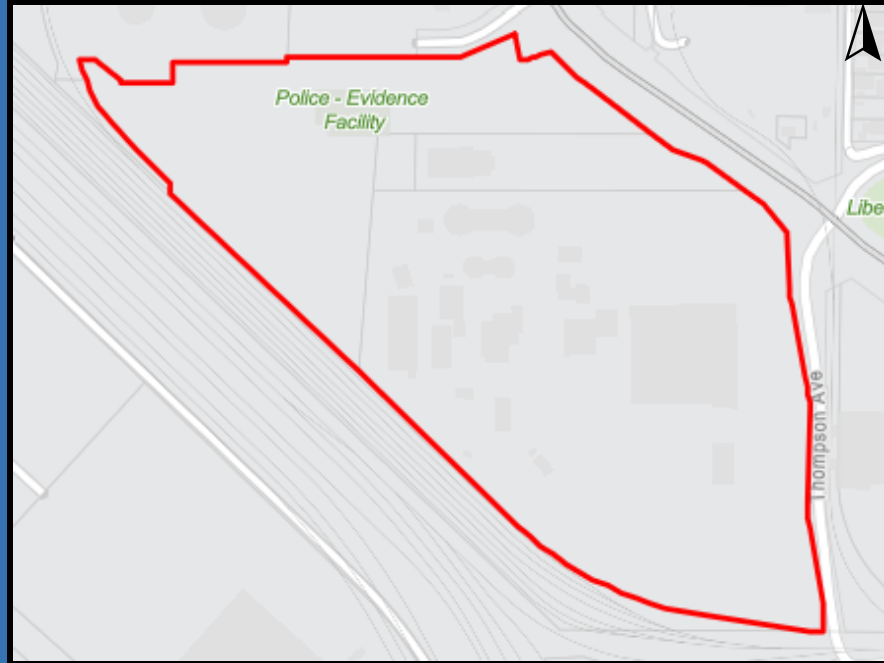
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Capital Preservation and Compliance (Treatment)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

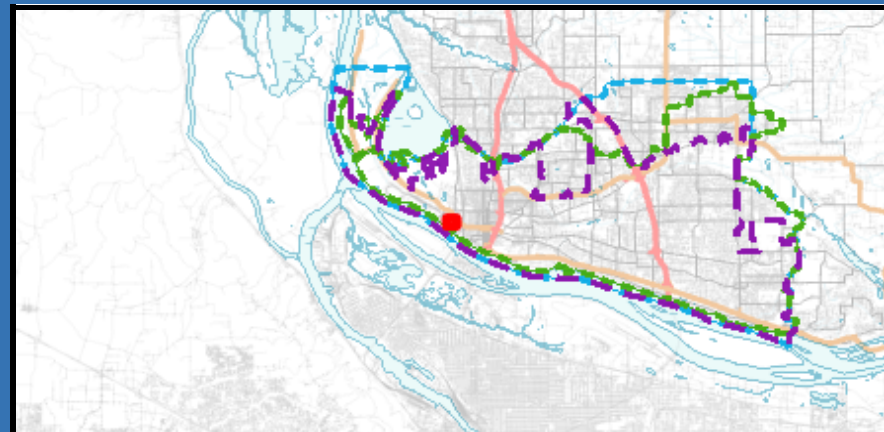
Project Description

Multi-year program to fund major repairs and rehabilitation of existing infrastructure and equipment at wastewater treatment facilities.

Project Justification

4 - Replace/preserve/ rehabilitate systems. This program funds extraordinary repair and rehabilitation projects to extend useful life of equipment at the Westside and Marine Park Wastewater Treatment Facilities. The program also funds emergency repairs and equipment for new compliance initiatives in permits and regulations.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083621

Grant Funded:

Total Project Cost: \$2,000,000.00

***Start of Const.:** Ongoing, Cost per
(Year) year

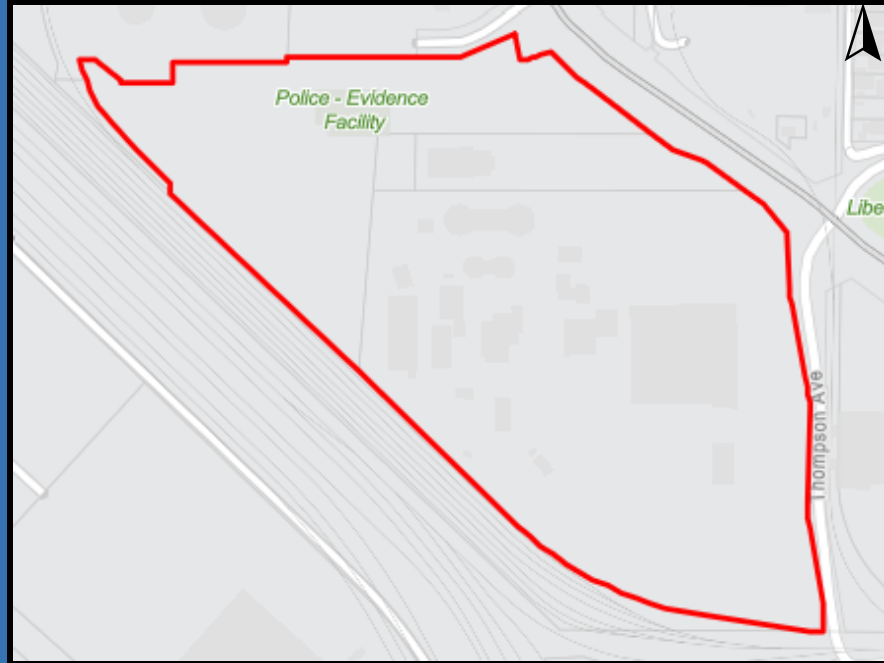
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

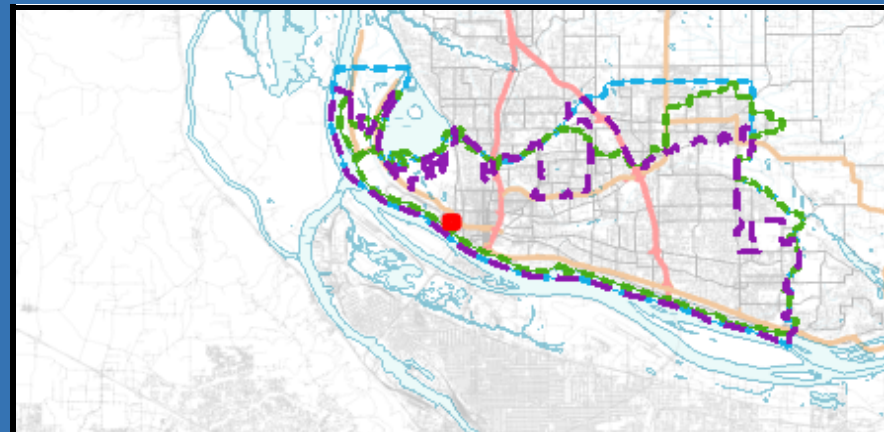
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Industrial Coating Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Multi-year program to fund tank and equipment protective coating projects at wastewater treatment facilities.

Project Justification

4 - Replace/preserve/ rehabilitate systems. This program funds specialty coating projects to protect tanks, pipes and equipment from corrosion and abrasion and thereby maintain or extend useful life.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083622

Grant Funded:

Total Project Cost: \$250,000.00

***Start of Const.:** Ongoing, Cost per year

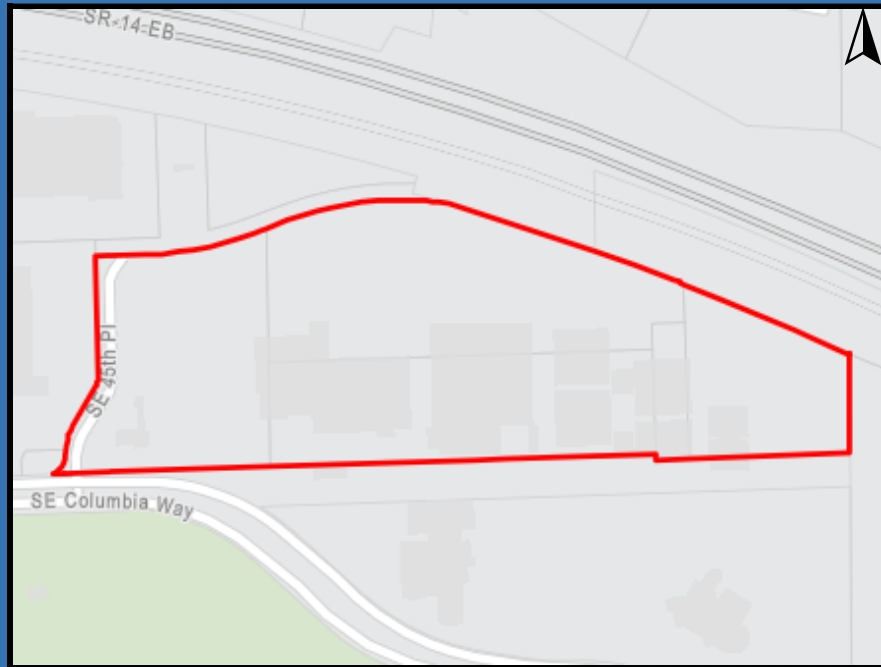
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside Chemical Tanks Refurbish**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

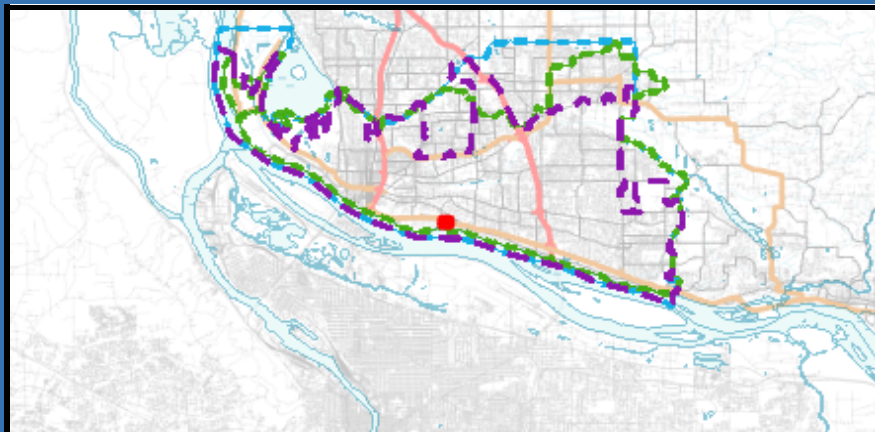
Project Description

Multi-year program to fund projects to maintain integrity of bulk chemical tanks at Westside and Marine Park Wastewater Treatment Facilities.





Project Justification

4 - Replace/preserve/ rehabilitate systems. This program funds repairs, new linings, and new ancillary equipment at bulk tank systems at Westside and Marine Park Wastewater Treatment Facilities to maintain or extend useful life.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083608

Grant Funded:

Total Project Cost: \$500,000.00

***Start of Const.:** 2024
(Year)

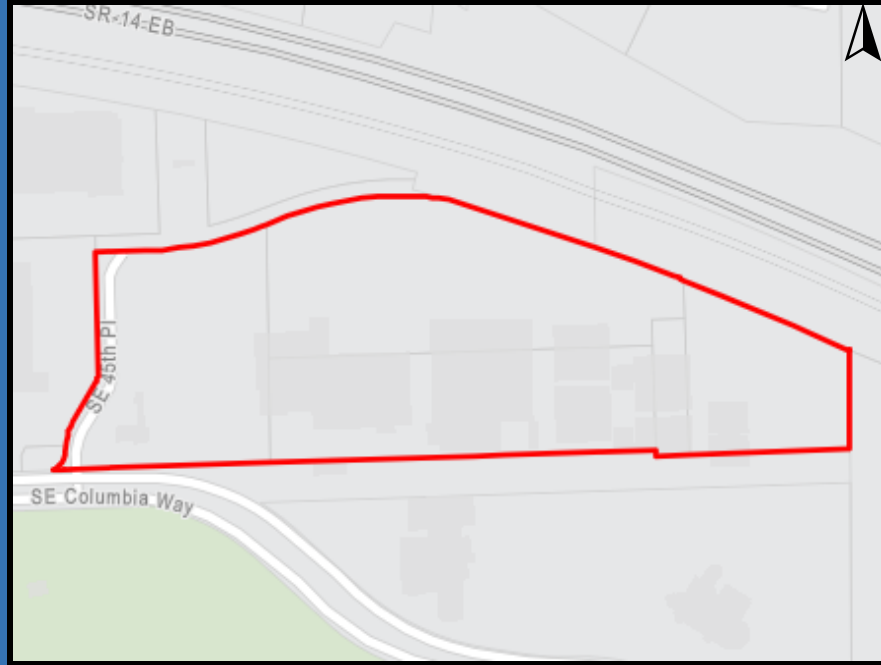
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park - Refurbish Odor Control System

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

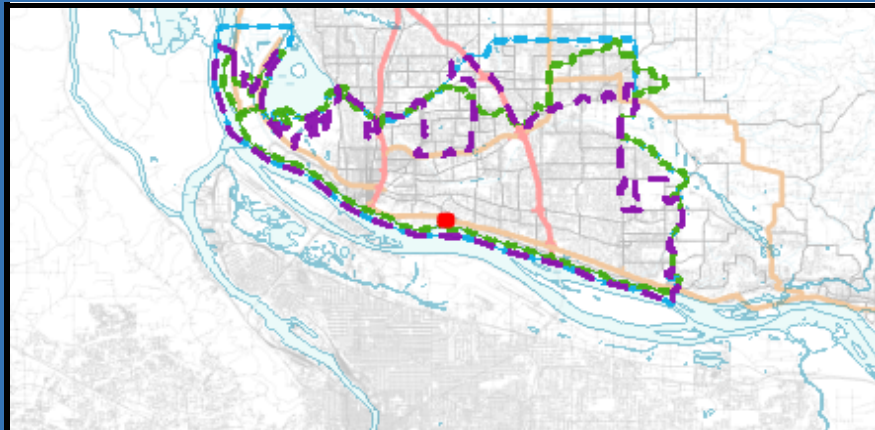
Project Description

Rehabilitation and upgrades to equipment and vessels at odor control system.

Project Justification

4 - Replace/preserve/ rehabilitate systems. Replace scrubber water and chemical piping, replace or rebuild pumps, fans and instruments to preserve integrity of odor control system and to ensure continuous compliance with air permit performance requirements. The system effectively controls and treats odorous compounds throughout the Marine Park Facility.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,000,000.00

***Start of Const.:** 2025
(Year)

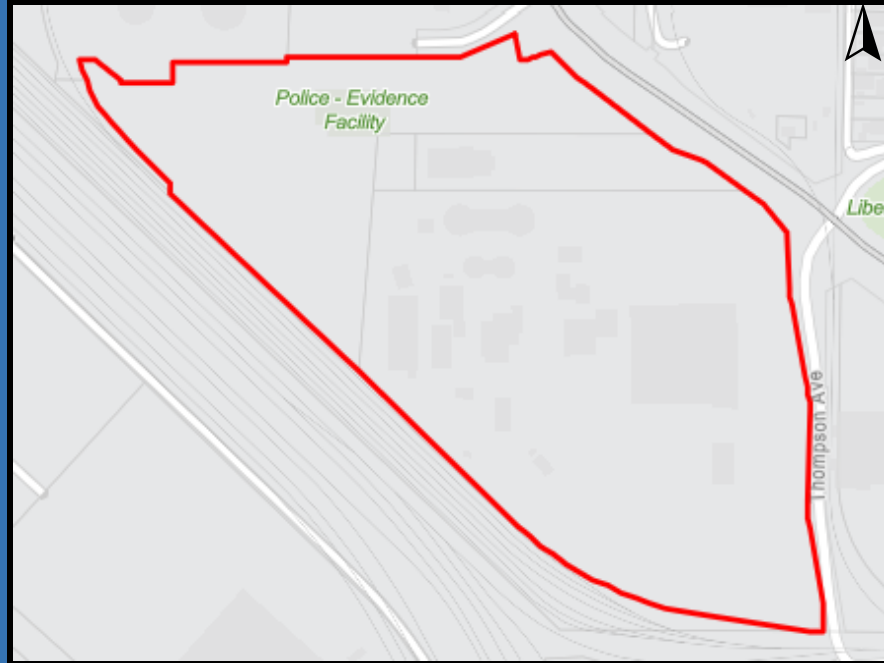
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: West 16th St. Pump Station Improvements

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

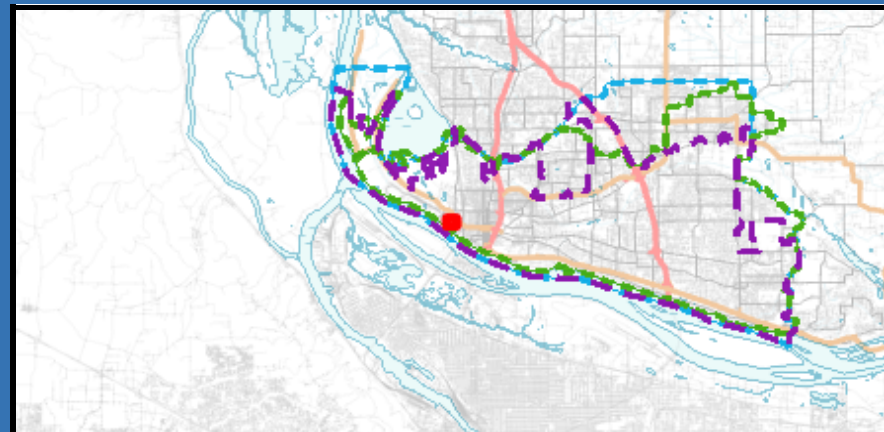
Project Description

Replace sewage pumps at West 16th Street Pump Station, which is located at Westside Wastewater Treatment Facility.





Project Justification

4 - Replace/preserve/ rehabilitate systems. This project replaces aged and worn pumps based on a 2019 condition assessment. The new pumps will maintain the integrity and reliability of the pump station.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$200,000.00

***Start of Const.:** 2023
(Year)

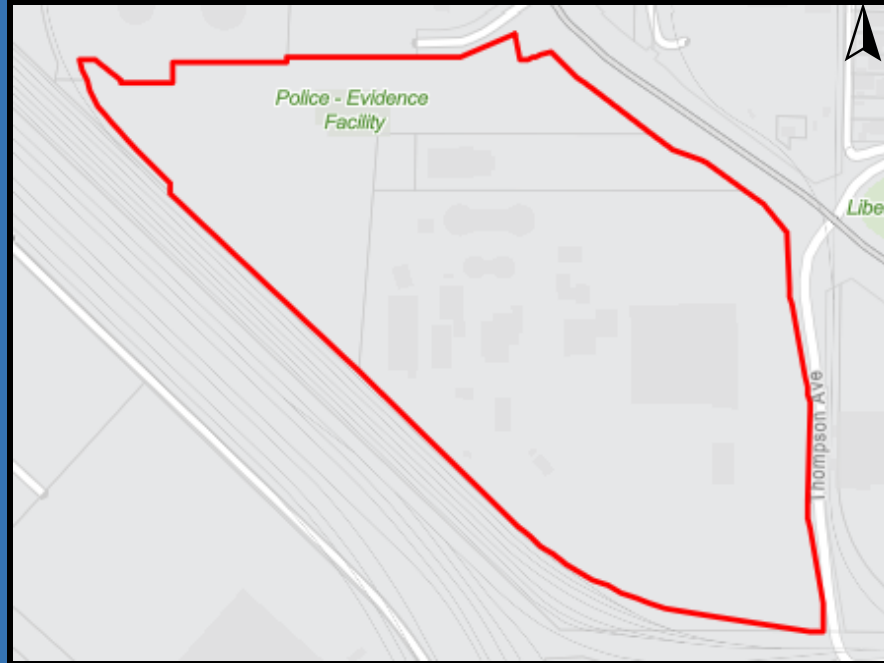
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

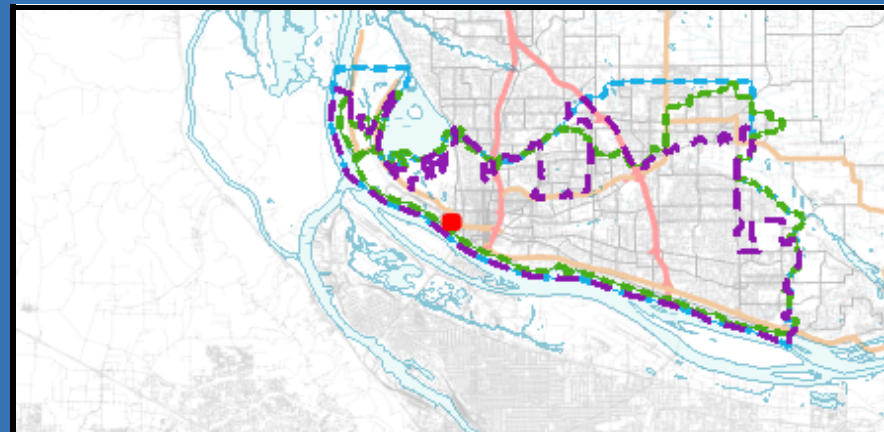
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Process Controls Electronics (SCADA Westside/Marine Park)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Multi-year program to fund ongoing replacements and upgrades to computer and electronic equipment to maintain the function of process control and data acquisition systems at Westside and Marine Park Wastewater Treatment Facilities.

Project Justification

4 - Replace/preserve/ rehabilitate systems. The process controls and electronics data systems, referred as Supervisory Control and Data Acquisition (SCADA) includes components with 5-7 year service life and must be replaced to maintain the function and integrity of the system. The SCADA system is essential for treatment facility operations as well as data collection for permit compliance reports.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083626

Grant Funded:

Total Project Cost: \$200,000.00

***Start of Const.:** Ongoing, Cost per year
(Year)

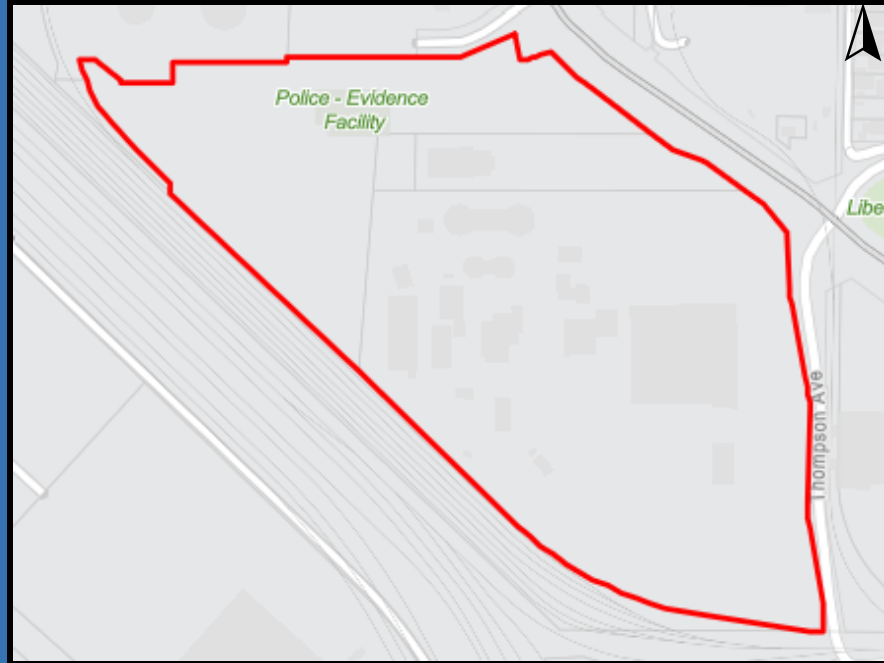
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Odor Control Planning

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

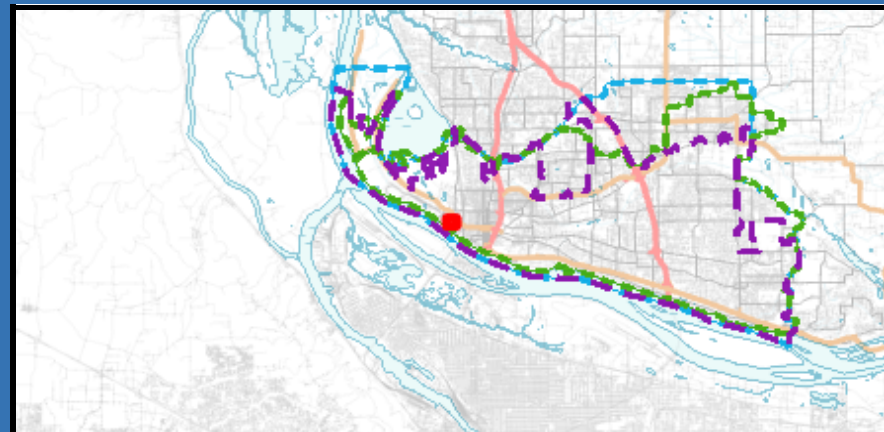
Project Description

Install additional odor control system to control and treat odorous air from wastewater and solids process units.

Project Justification

- 1 - Regulatory compliance. Additional odor control system would capture and control fugitive odorous gases, which is regulated by Southwest Clean Air Agency regulations.
- 2 - Improved safety. Increased capture of odorous gases improves air quality for environmental protection and lessens nuisance odors at nearby locations.
- 3 - New systems. The additional odor control system will be a new asset at Westside Wastewater Treatment Facility.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100761

Grant Funded:

Total Project Cost: \$600,000.00

***Start of Const.:** 2024
(Year)

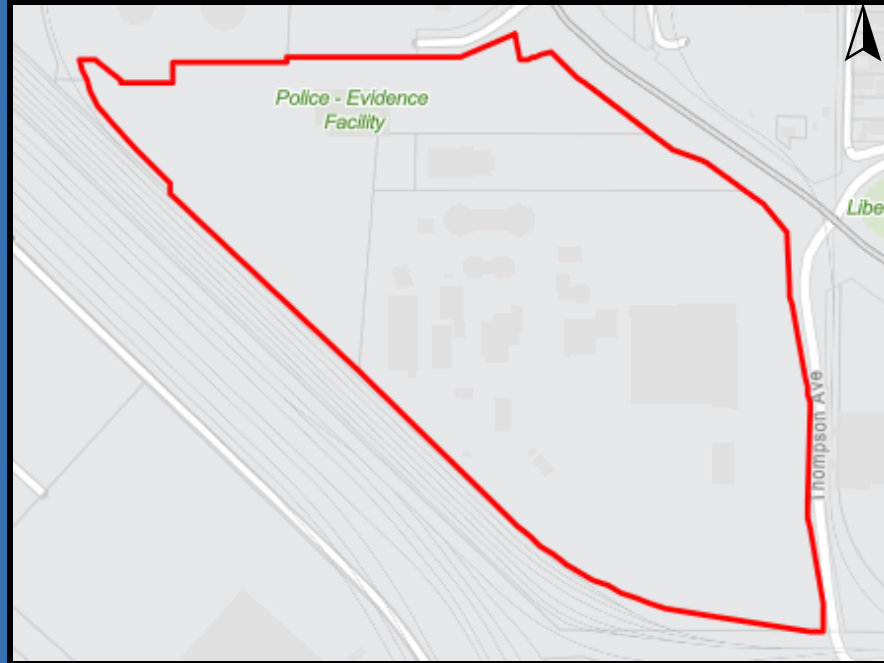
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside - Centrifuge #1 System Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

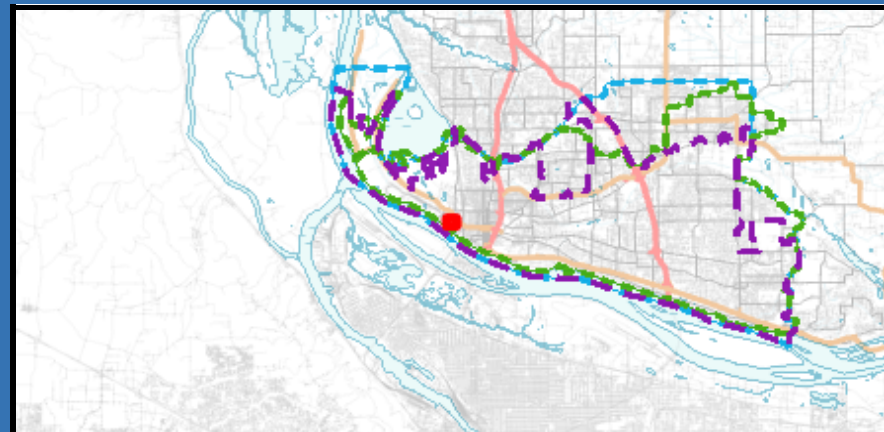
Project Description

Replace existing Westside WWTF Sludge Centrifuge.

Project Justification

4 - Replace/preserve/rehabilitate systems. Replace older one of the 2 centrifuges for wastewater solids thickening and dewatering. The existing centrifuge is both reaching its end of useful life and undersized for the needed duty. The replacement centrifuge will have the capacity to meet capacity today and in the future.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100484

Grant Funded:

Total Project Cost: \$800,000.00

***Start of Const.:** 2023
(Year)

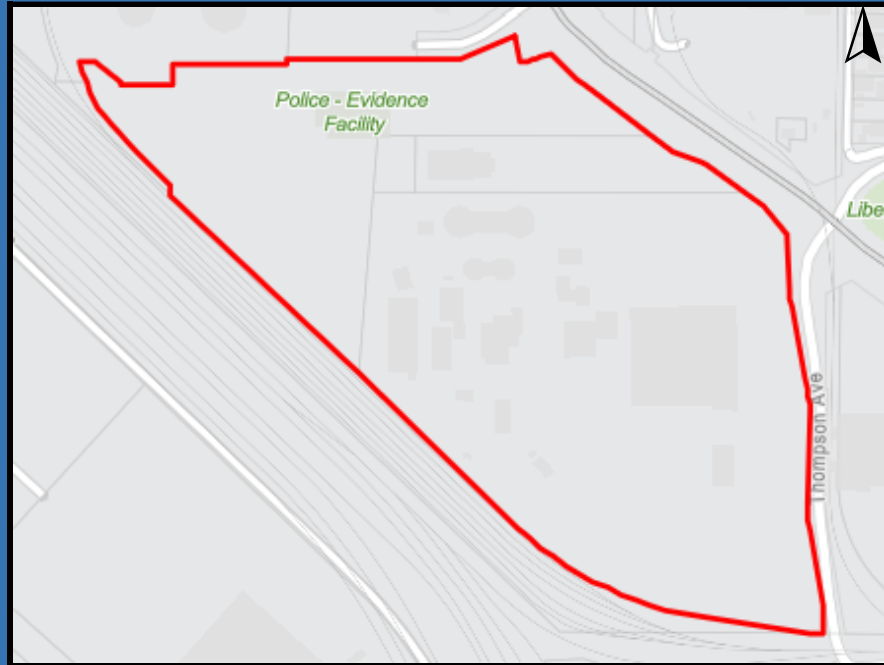
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

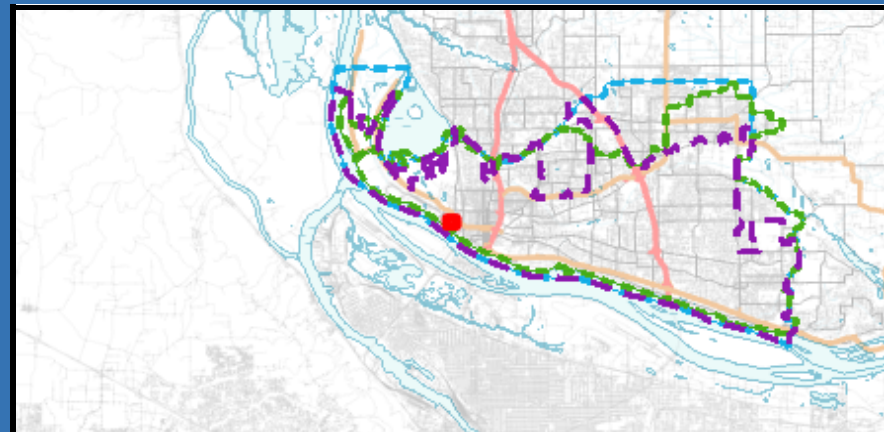
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **W. 16th St. Force Main Reline**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Rehabilitate West 16th Street Pump Station sewer pressure main to extend useful life and increase resiliency.

Project Justification

4 - Replace/preserve/rehabilitate systems. Rehabilitate West 16th Street Pump Station pressure main to restore structural integrity and extend service life. The project will use current, proven technologies, likely a trenchless (no dig) cure-in-place technology.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083581

Grant Funded:

Total Project Cost: \$150,000.00

***Start of Const.:** 2024
(Year)

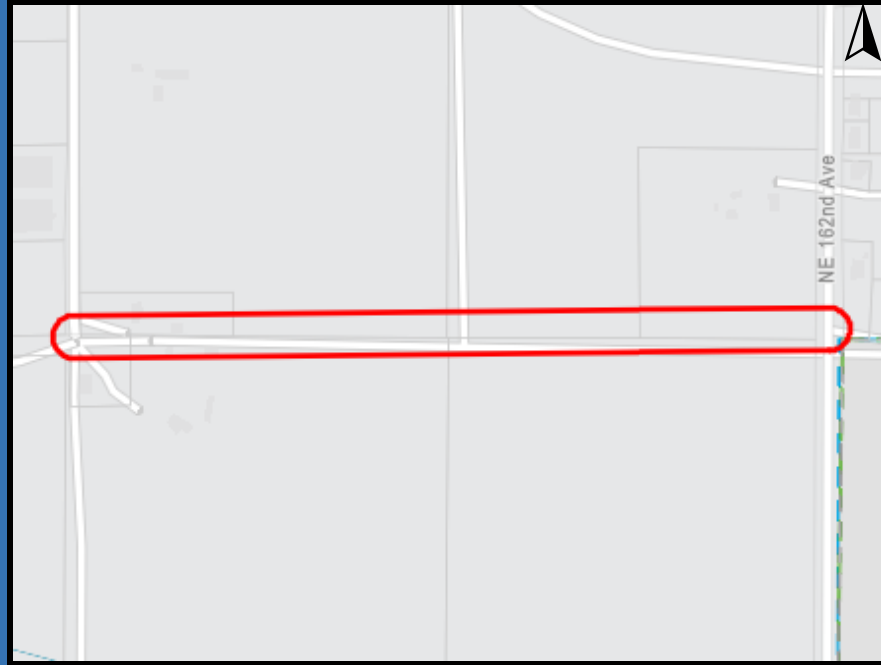
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Basin A-20-1 & Force Main Relocation (59th Street)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Future

PROJECT DESCRIPTION

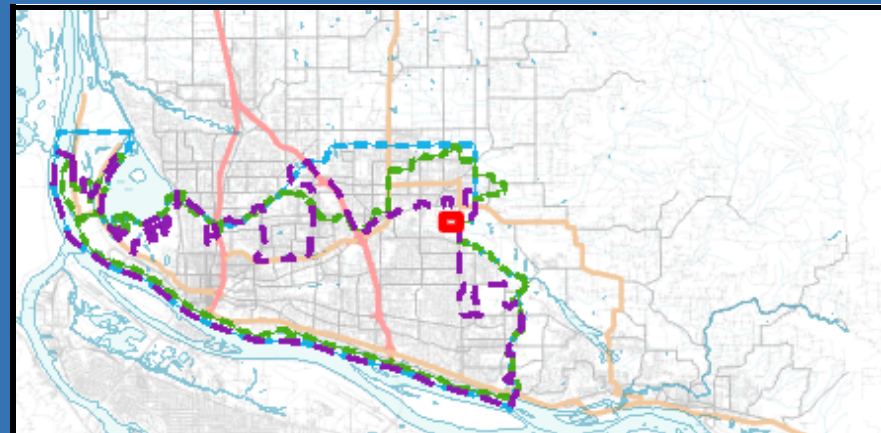
Project Description

Extend 6" to 24" gravity sewer in NE 59th Street, when NE 59th St is constructed west of NE 162nd Ave.





Project Justification

4 - Replace/preserve/rehabilitate system. Funds budgeted are for oversize participation in the form of supplying oversize force main sewer line pipe to the developer driven project.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100250

Grant Funded:

Total Project Cost: \$500,000.00

***Start of Const.:** 2025
(Year)

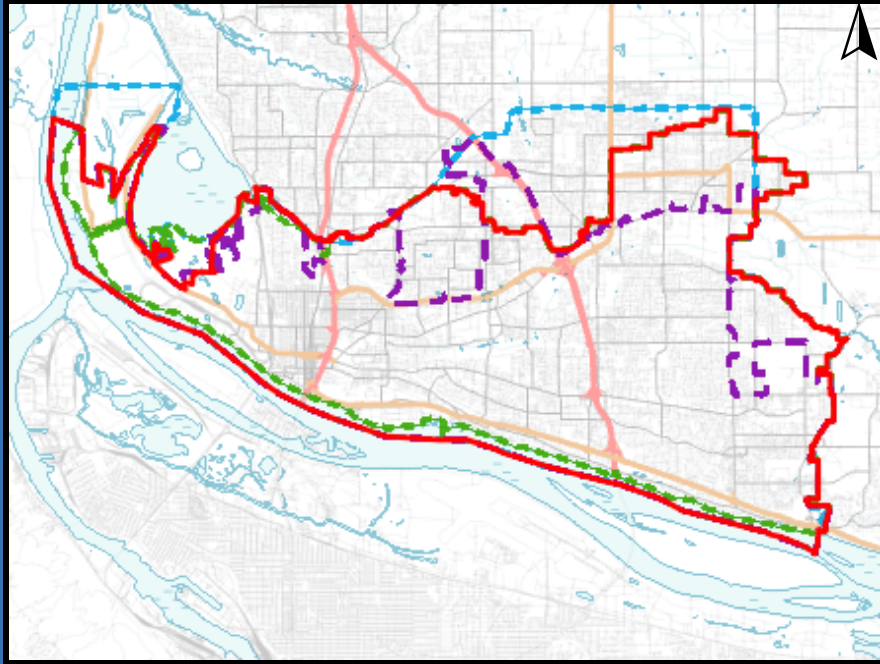
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

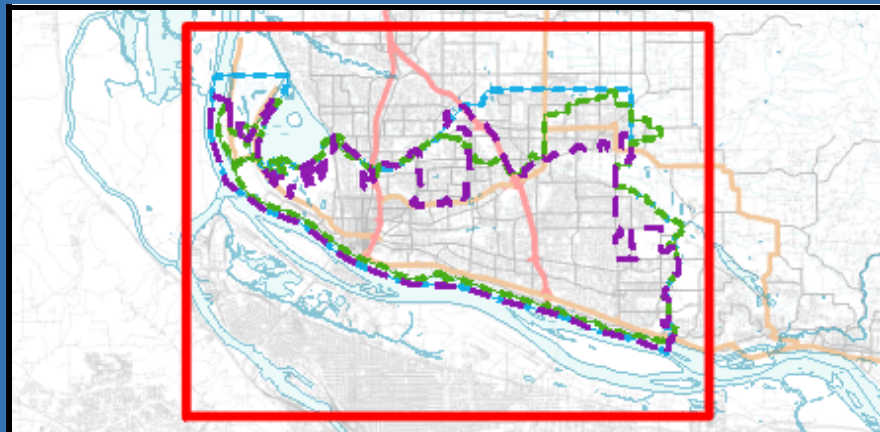
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Wastewater Collection SCADA

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace aging lift station SCADA equipment.

Project Justification

4 - Replace/preserve/rehabilitate. Upgrade and replace existing (obsolete) Lift Station SCADA system throughout our service area, some of it over 20 years old. Recurring/ongoing Equipment replacement is needed to update our SCADA system electronics and hardware, maintain system reliability, and extend asset service life.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083711

Grant Funded:

Total Project Cost: \$150,000.00

***Start of Const.:** 2023-2028, Cost per (Year) year

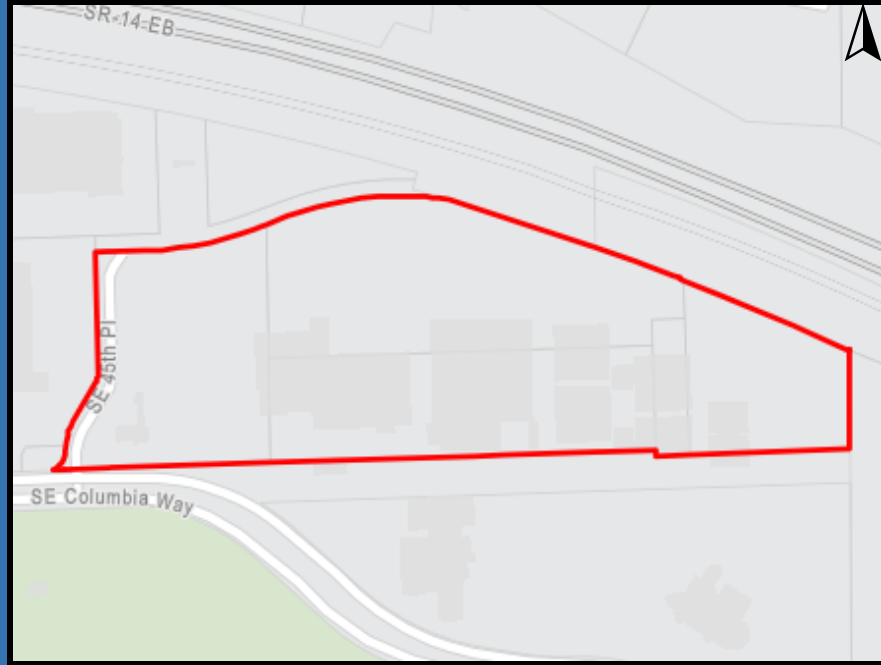
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

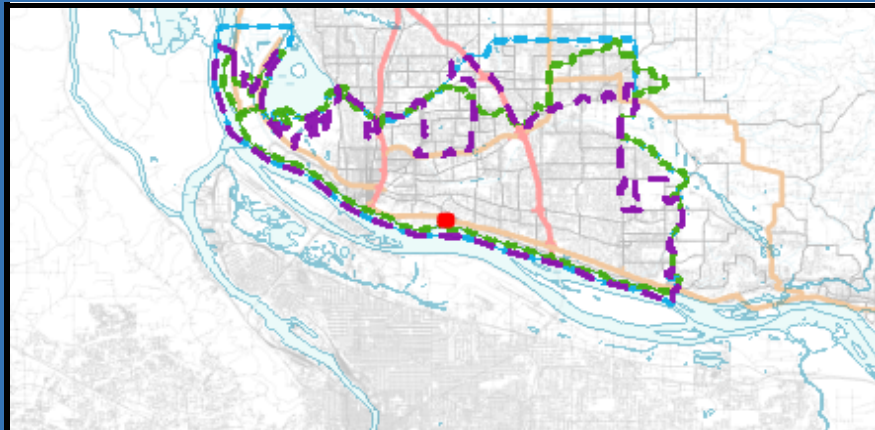
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park UV Upgrade

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace and upgrade Ultraviolet Disinfection system to current, supported technology at Marine Park Wastewater Treatment Facility.

Project Justification

1 - Regulatory compliance. The upgraded UV system will meet current and anticipated future requirements to meet limits for fecal coliform (current) and E.Coli (near future).
4 - Replace/preserve/rehabilitate systems. The current UV system was originally installed in 1996 and no longer supported by the vendor, including no inventories of replacement parts. The upgraded UV system will have improved performance and reliability, be more electrically energy efficient and be supported by vendor for the life of the system.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100718

Grant Funded:

Total Project Cost: \$1,850,000.00

***Start of Const.:** 2023
(Year)

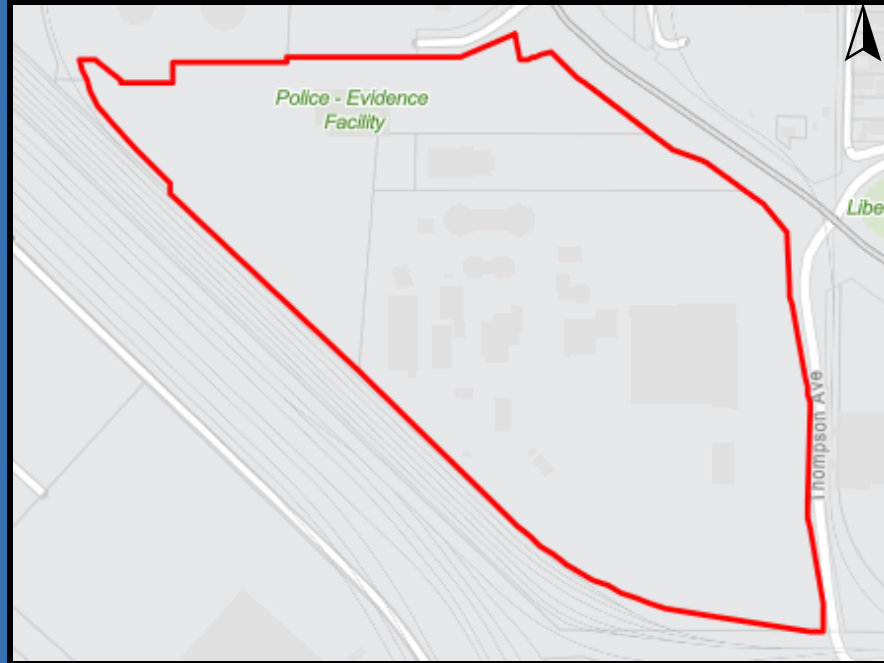
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

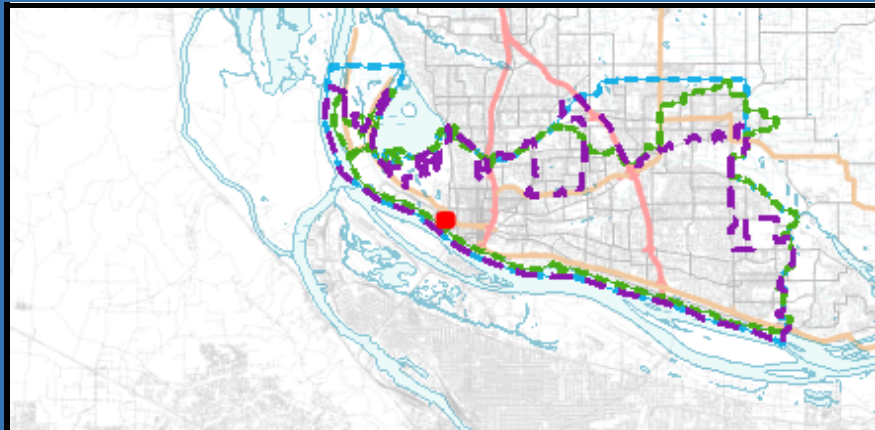
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside Polymer Refurbish**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Upgrade existing polymer chemical system including tanks, piping and pumps.

Project Justification

4 - Replace/preserve/rehabilitate systems. The project will make improvements to storage tanks, piping, pumps and controls to provide more reliable delivery of polymer to solids process streams, which is essential for thickening and dewatering.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100762

Grant Funded:

Total Project Cost: \$500,000.00

***Start of Const.:** 2024
(Year)

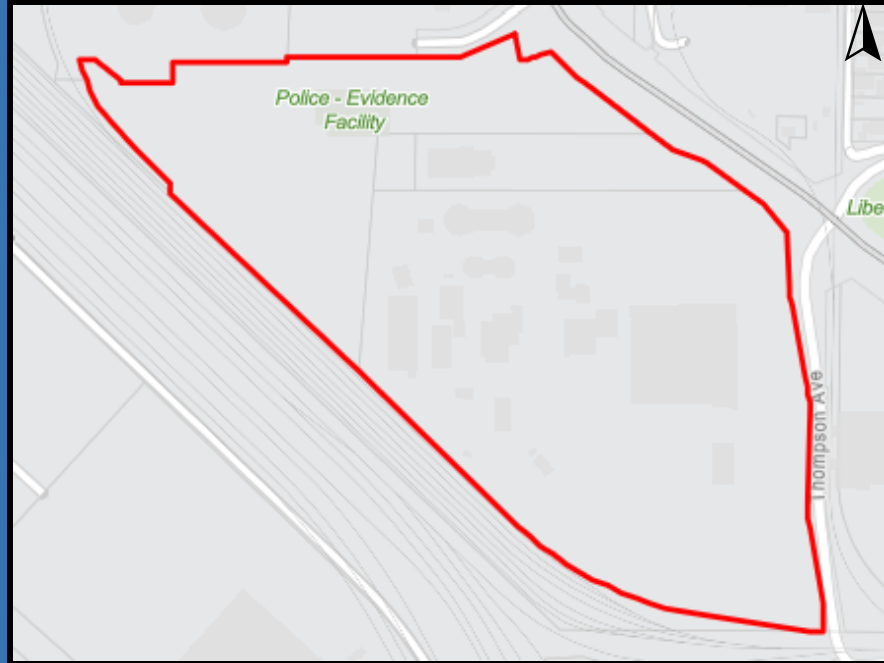
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

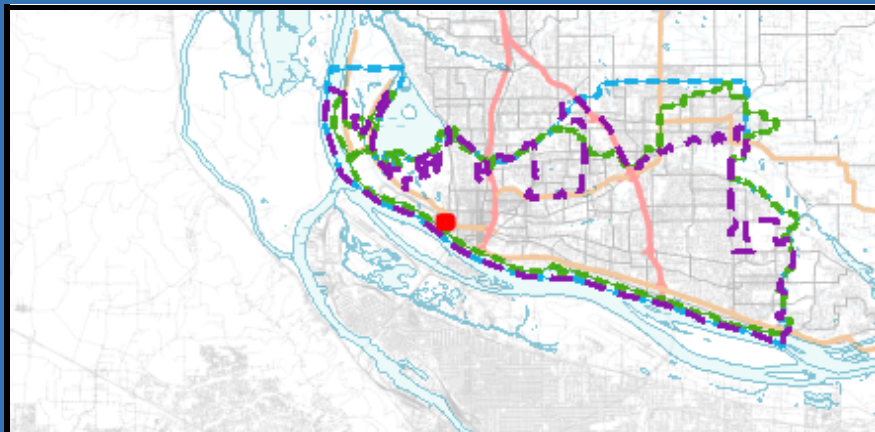
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside Electrical Upgrade Design and Electrical Upgrades**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Multi-year project to replace and rehabilitate aged electrical equipment at Westside Wastewater Treatment Facility.

Project Justification

4 - Replace/preserve/rehabilitate systems. The project is a continued multi-year project to replace and rehabilitate medium voltage (480V and higher) systems and equipment at Westside Wastewater Treatment Facility. The project includes electrical switchgear control improvements at the site's emergency generators to replace obsolete equipment and improve reliability of this critical system.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083714

Grant Funded:

Total Project Cost: \$4,400,000.00

***Start of Const.:** 2020
(Year)

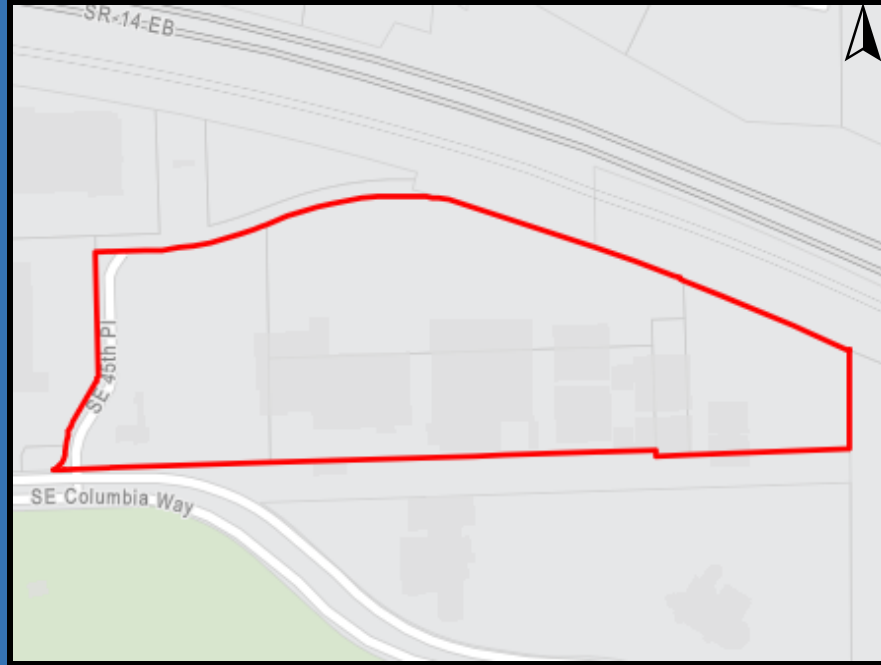
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park Bar Screens Upgrade

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

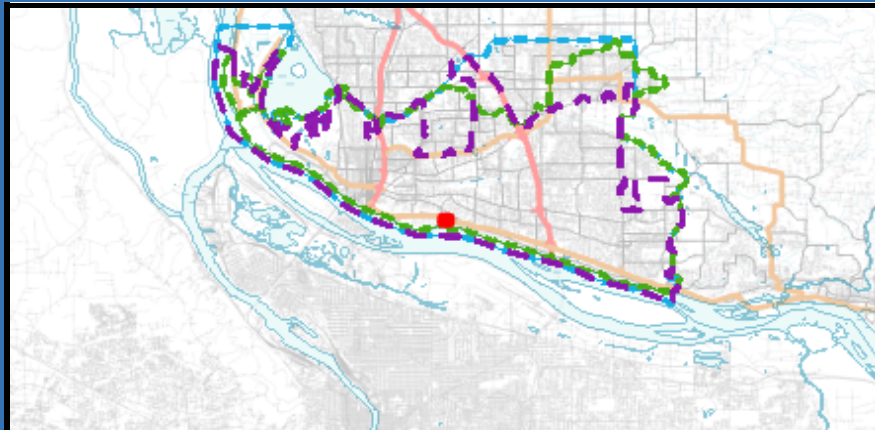
Wastewater screening system upgrade at Marine Park WWTF Headworks.

Project Justification





4 - Replace/preserve/rehabilitate systems. Existing screening system is at end of useful life. The system experiences frequent downtime and currently requires increasing maintenance.

1 - Regulatory compliance - Existing screen size is 1/2", the upgraded new system will meet state requirements for smaller screen size (3/8" or less).

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100719

Grant Funded:

Total Project Cost: \$3,400,000.00

***Start of Const.:** 2024
(Year)

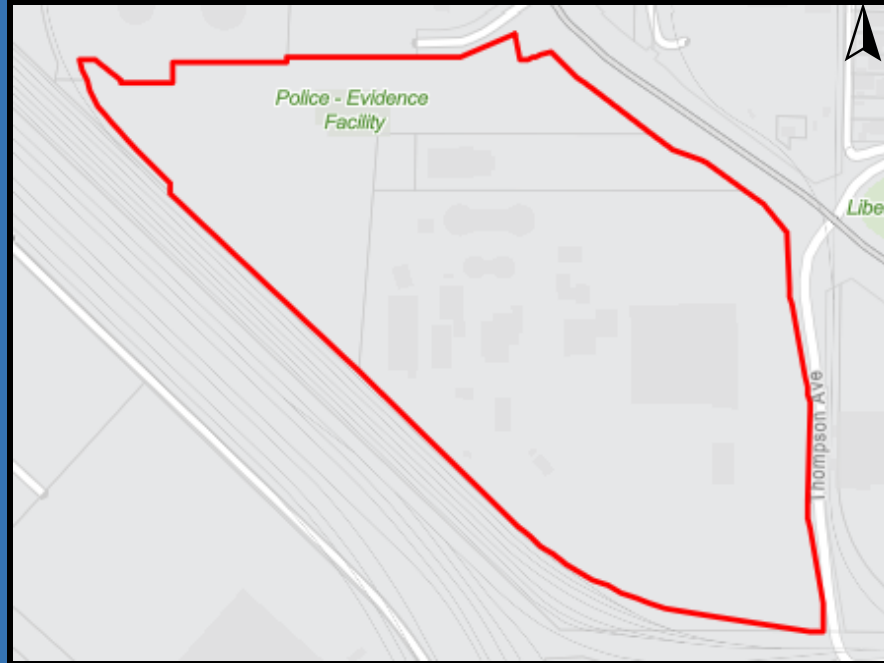
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

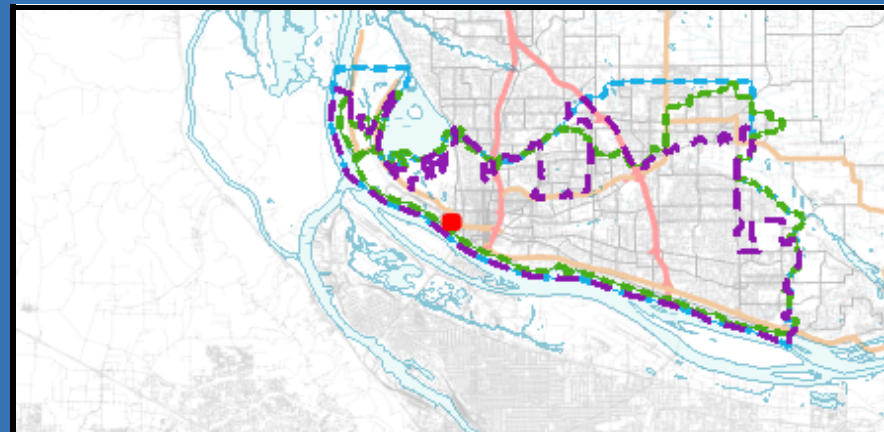
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Solids Planning

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Engineering pre-design for Wastewater Solids Renewal Program at Westside WWTF.





Project Justification

4 - Replace/preserve/rehabilitate systems. Built in 1999, the existing sewage sludge incinerator is exceeding its expected useful life of 20 years. The system is expected to be fully replaced by new equipment (see 3 - New systems below).

3 - New systems. A new solids system using newer technologies is anticipated for resource recovery (energy, beneficial solids).

This budget cost supports pre-design consultant services.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100721

Grant Funded:

Total Project Cost: \$4,200,000.00

***Start of Const.:** 2024
(Year)

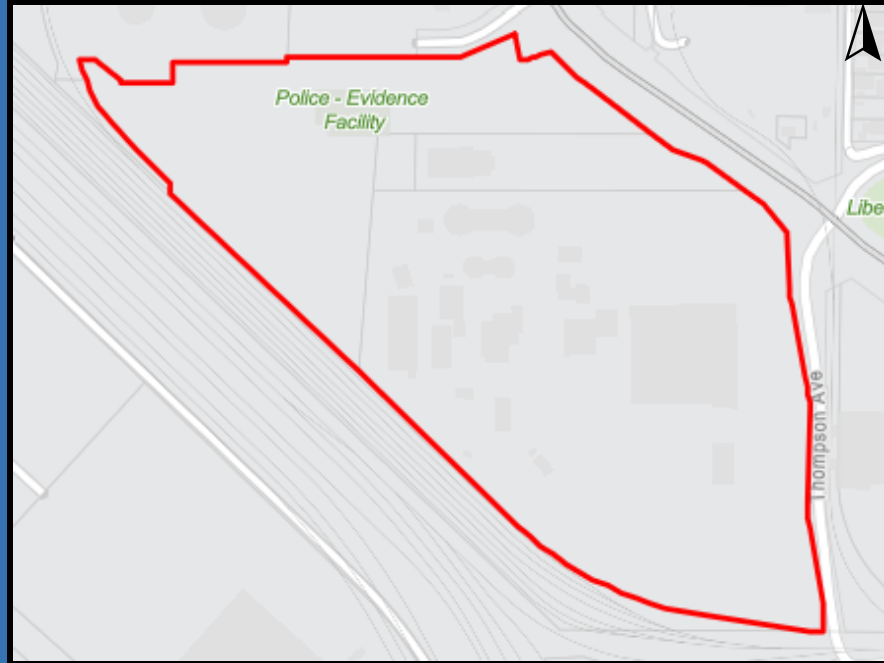
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside Sodium Hypochlorite Delivery**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

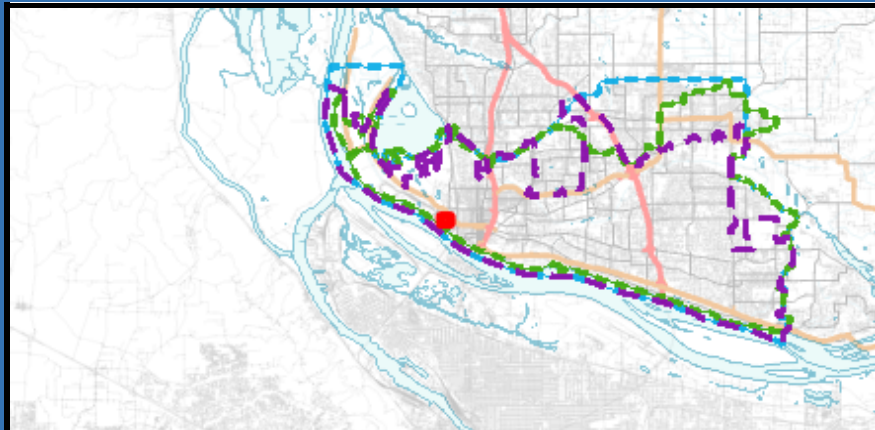
Project Description

Improve Sodium hypochlorite storage and handling tanks and piping to reduce operator safety hazards and improve operability.

Project Justification

3 - New Systems; to upgrade/upsue our existing system and reduce ongoing maintenance.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100720

Grant Funded:

Total Project Cost: \$100,000.00

***Start of Const.:** 2025
(Year)

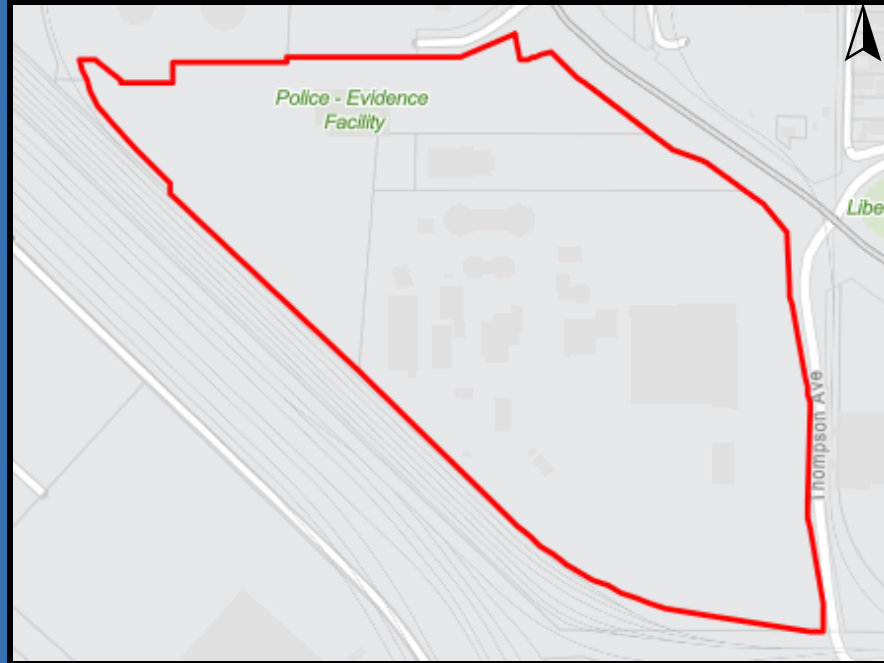
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Marine Park WWTF Process Piping R&R**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

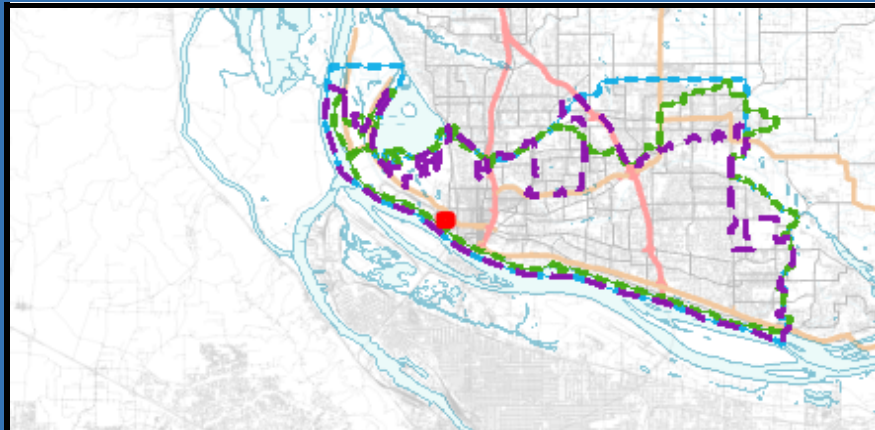
Project Description

Marine Park WWTF process piping replacement and rehabilitation program.

Project Justification

4 - Replace/preserve/rehabilitate systems. The project is a multi-year project to replace and rehabilitate aging and worn wastewater process piping at Marine Park Wastewater Treatment Facility.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100766

Grant Funded:

Total Project Cost: \$200,000.00

***Start of Const.:** Ongoing, Cost per year

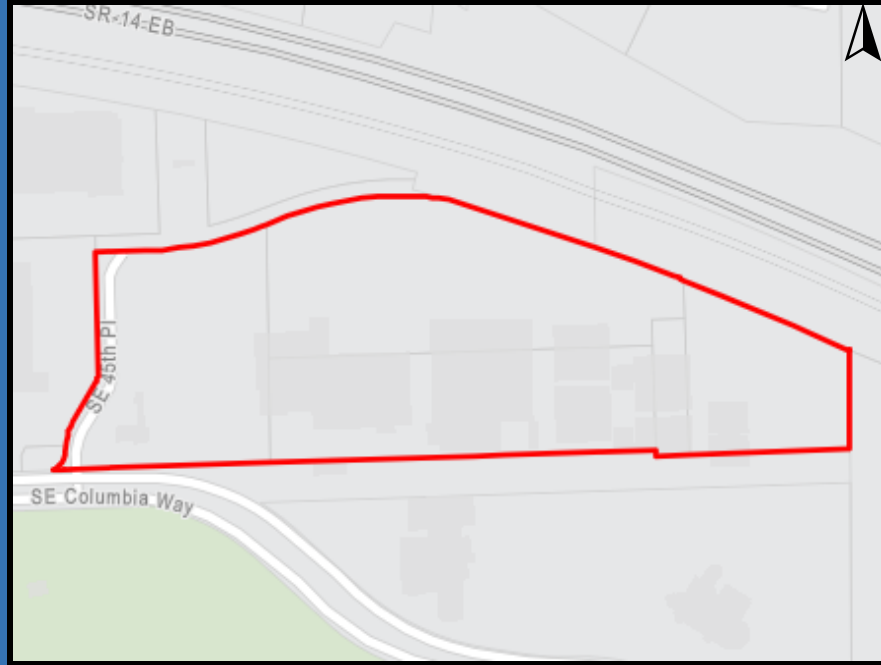
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Marine Park WWTF Phase 2B - Secondary Process Enhancements**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Engineering studies, scoping and plant improvements to meet system growth and permit requirements. Also provides secondary treatment optimization.

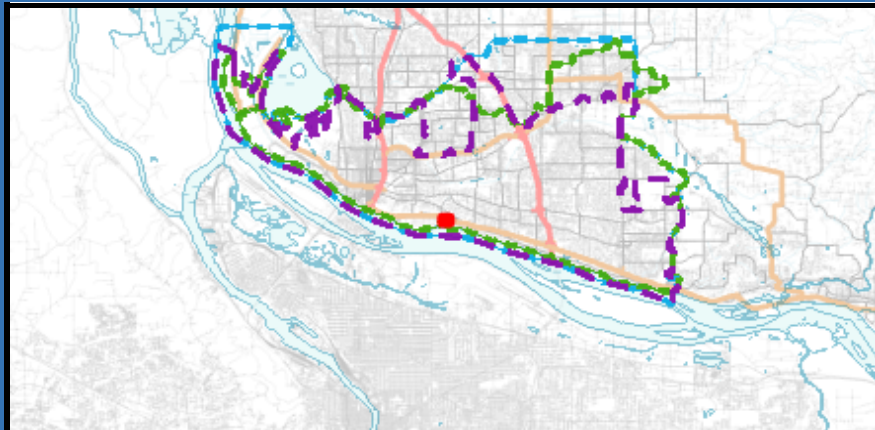
Project Justification

1 - Regulatory compliance. Project enhances performance and capacity of secondary treatment systems to address regulatory compliance and system growth.





3 - New systems. The project enhancements include new secondary process aeration piping, valves and controls.

5 - Lower operating costs. The enhancements will provide more efficient process control and reduce energy costs for aeration blowers.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$5,750,000.00

***Start of Const.:** 2024
(Year)

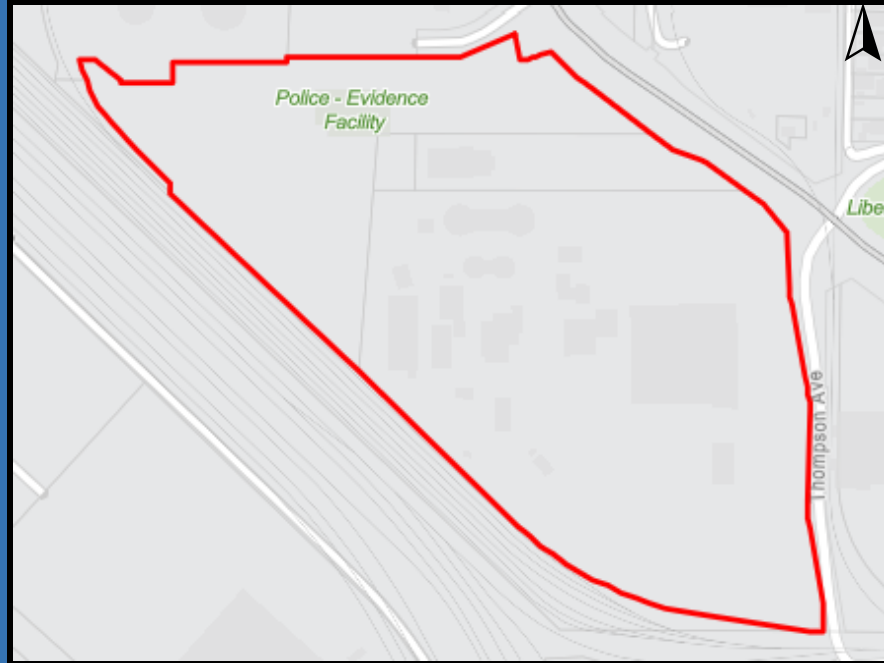
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

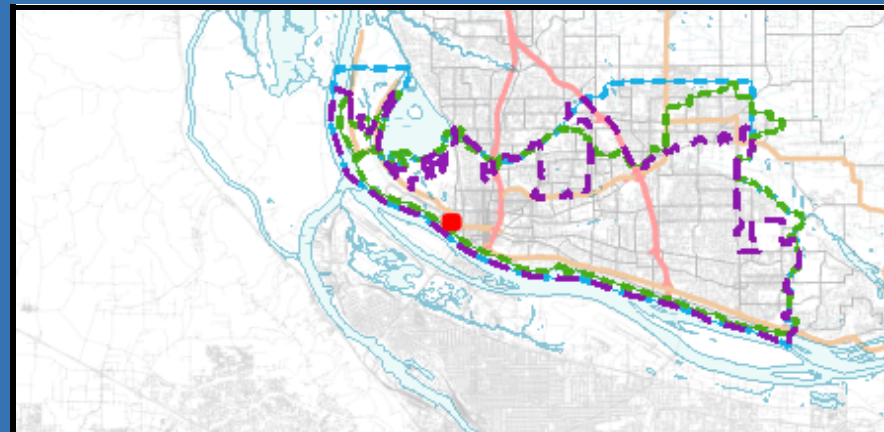
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Solids Treatment Upgrades

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

Project Description





Design and construction for Wastewater Solids Renewal Program at Westside WWTF.

Project Justification

4 - Replace/preserve/rehabilitate systems. Built in 1999, the existing sewage sludge incinerator is exceeding its expected useful life of 20 years. The system is expected to be fully replaced by new equipment (see 3 - New systems below).

3 - New systems. A new solids system using newer technologies is anticipated for resource recovery (energy, beneficial solids).

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$90,000,000.00

***Start of Const.:** 2027
(Year)

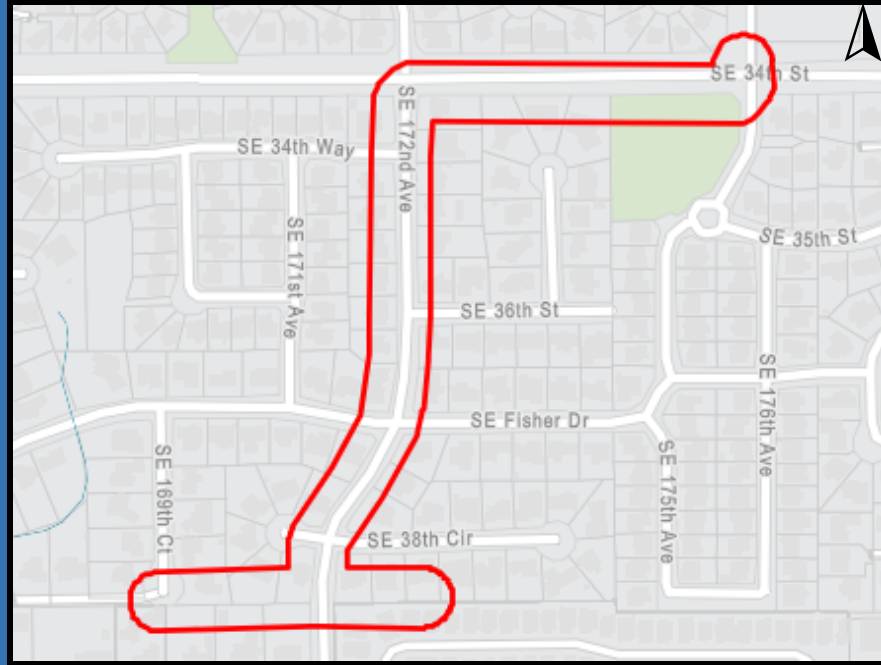
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westridge PS and Fisher's Landing PS Discharge Upgrade**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Future

PROJECT DESCRIPTION

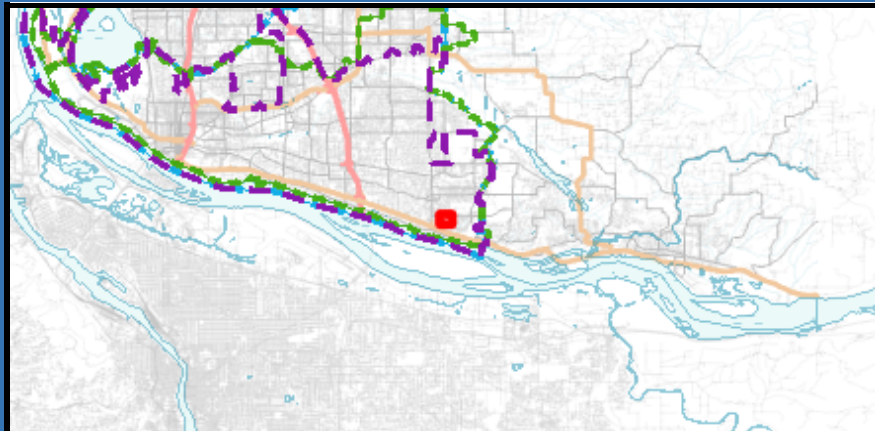
Project Description

Reconstruction of existing pumpstation to improve capacity.

Project Justification

3 - New Systems; to upgrade/upsized our existing system, improve capacity and reduce ongoing maintenance

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100660

Grant Funded:

Total Project Cost: \$730,000.00

***Start of Const.:** 2024
(Year)

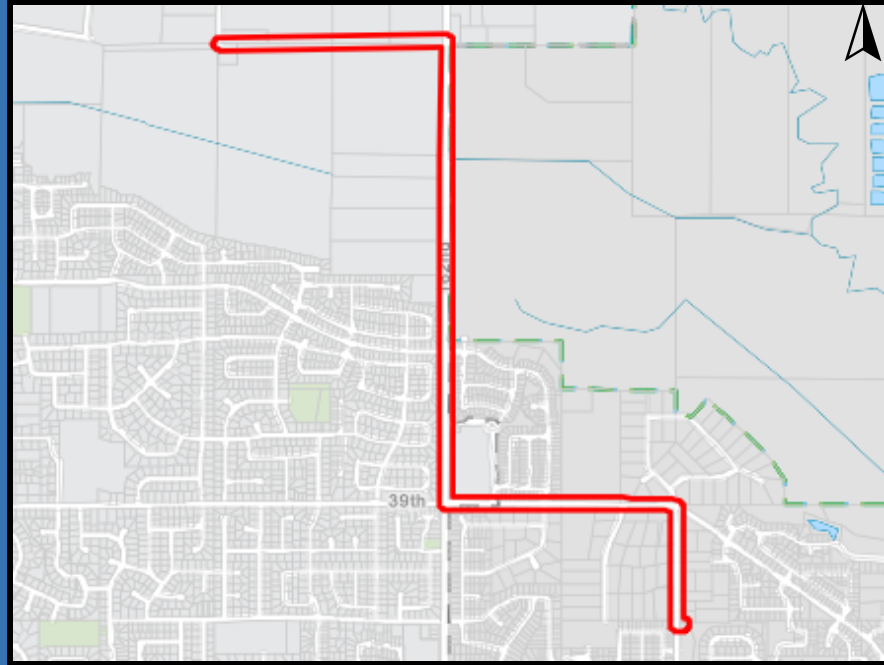
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

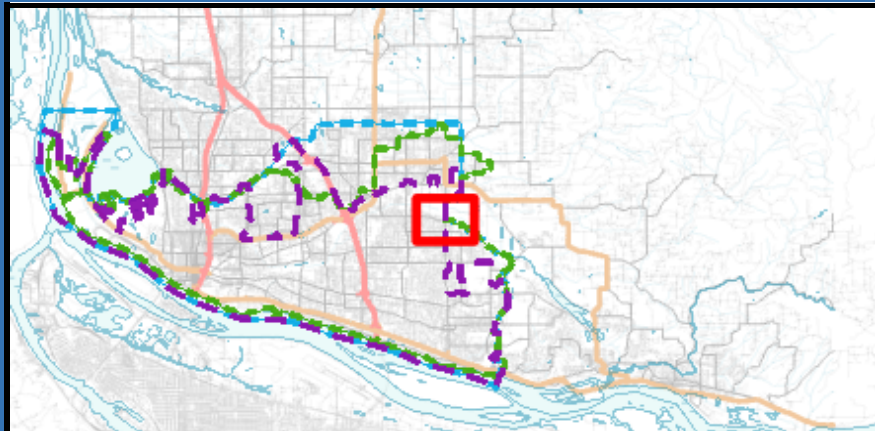
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Maplecrest PS Reconstruction

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Reconstruct Maplecrest PS to increase system operability, and flow meter improvements at other GMA area pump station.

Project Justification

3 - New Systems; to upgrade/upscale our existing system and reduce ongoing maintenance.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100657

Grant Funded:

Total Project Cost: \$2,700,000.00

***Start of Const.:** 2023-2024 (Year)

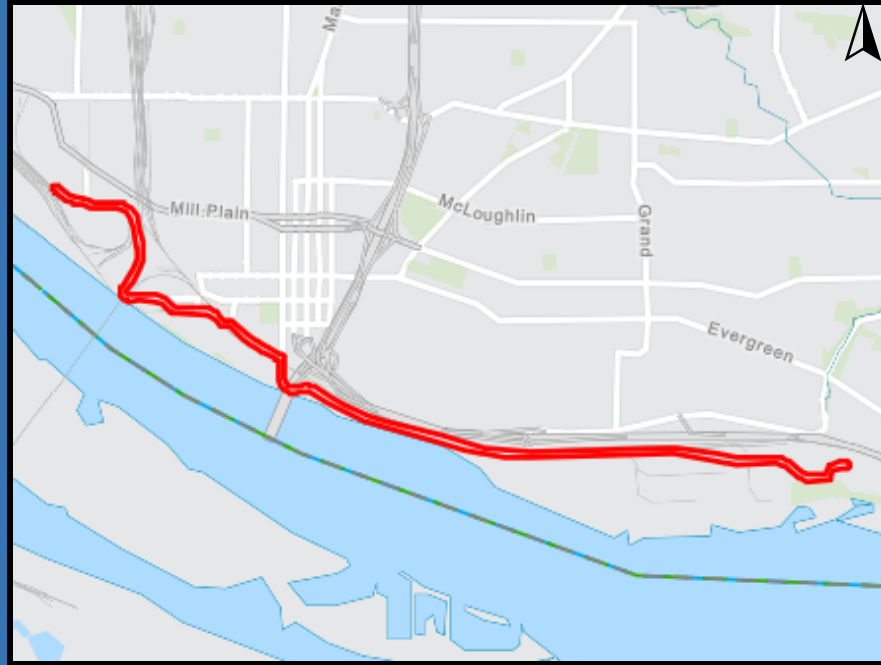
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

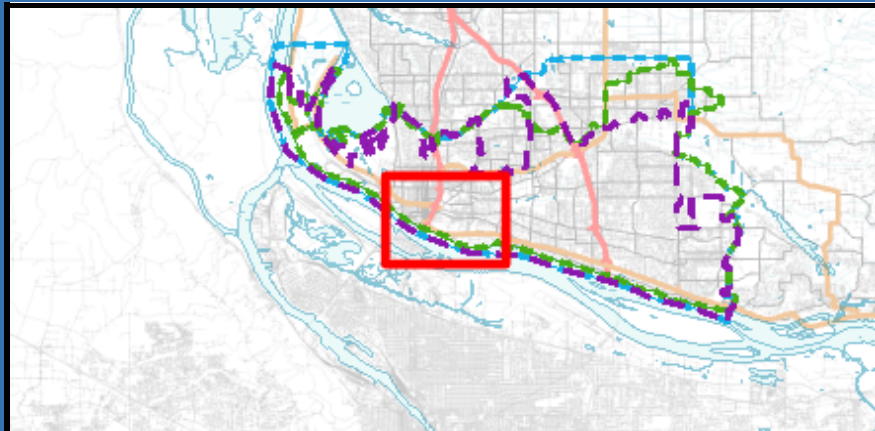
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park Solids Conveyance

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

New pipeline (forcemain) to convey wastewater solids streams from Marine Park WWTF to Westside WWTF solids system.





Project Justification

3 - New system. Wastewater solids conveyance buried forcemain line will re-route wastewater solids streams away from the sewer collection system and directly to Westside's solids processing facility.

1 - Regulatory compliance. The project will reduce solids loading to Westside headworks and thereby provide for increased capacity and system growth.

5 - The re-routing of wastewater solids will provide for more efficient wastewater treatment processes at Westside WWTF.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100768

Grant Funded:

Total Project Cost: \$19,700,000.00

***Start of Const.:** 2024
(Year)

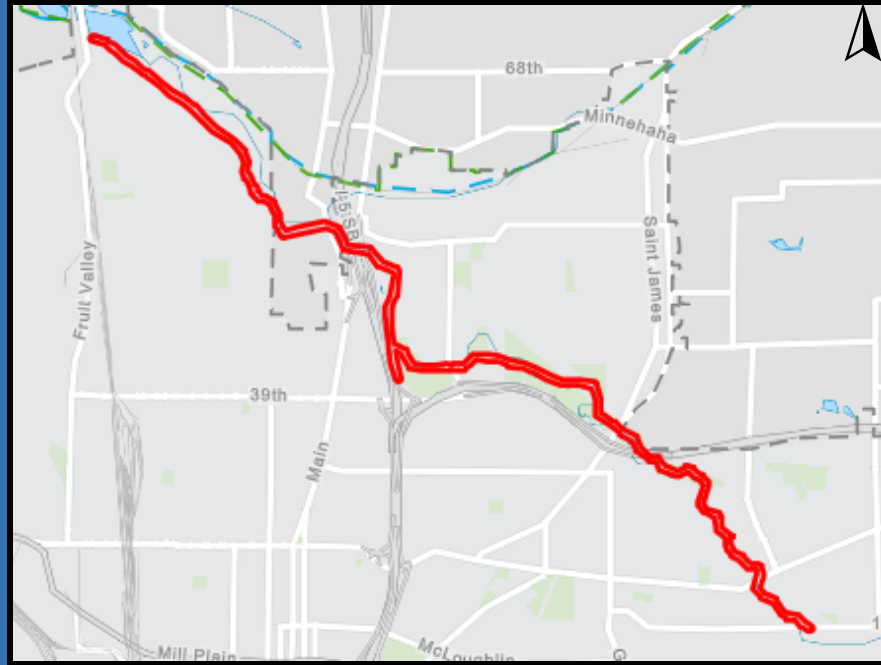
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

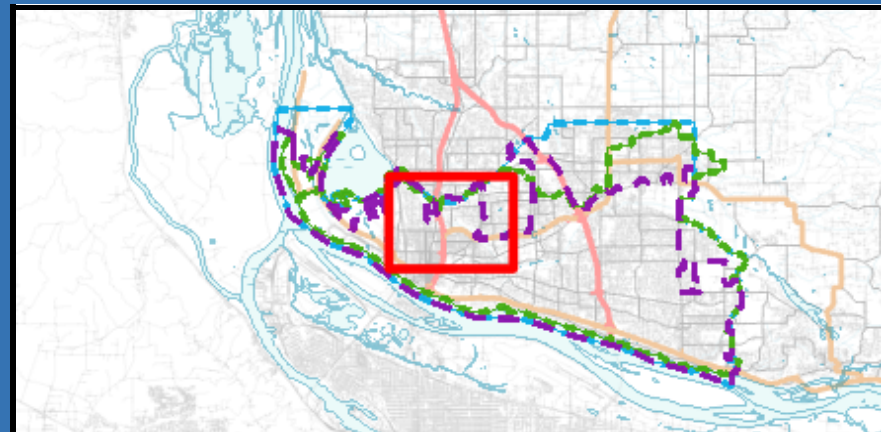
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Burnt Bridge Creek Interceptor Rehab Phases 1 to 4**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Rehabilitate Burnt Bridge Creek interceptor in four phases between 2023 and 2024.

Project Justification

4 - replace/preserve/rehabilitate: To provide consulting design and construction services for re-lining of 36"-42" diameter concrete Burnt Bridge Creek Interceptor. First of four phase project: Phase 1 - \$1.4M; Phase 2 \$830,000; Phase 3 - \$290,000; Phase 4 - \$630,000. All phases planned for 2023-2024 construction, totaling 26,773 LF (5.07 Miles).

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,650,000.00

***Start of Const.:** 2023-2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

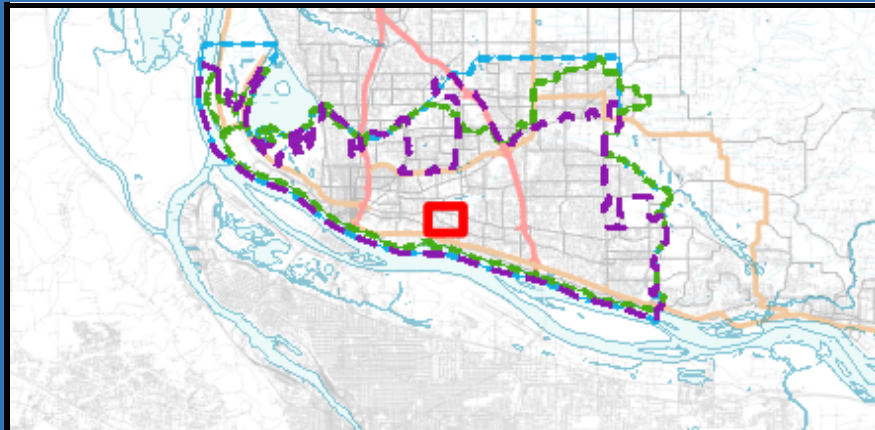
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Heights District Redevelopment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Sewer collections system realignment as needed for Heights District redevelopment

Project Justification

3 - New Systems; to upgrade/upsize our existing system and support economic redevelopment in the Heights District.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100712

Grant Funded:

Total Project Cost: \$1,900,000.00

***Start of Const.:** 2023-2025
(Year)

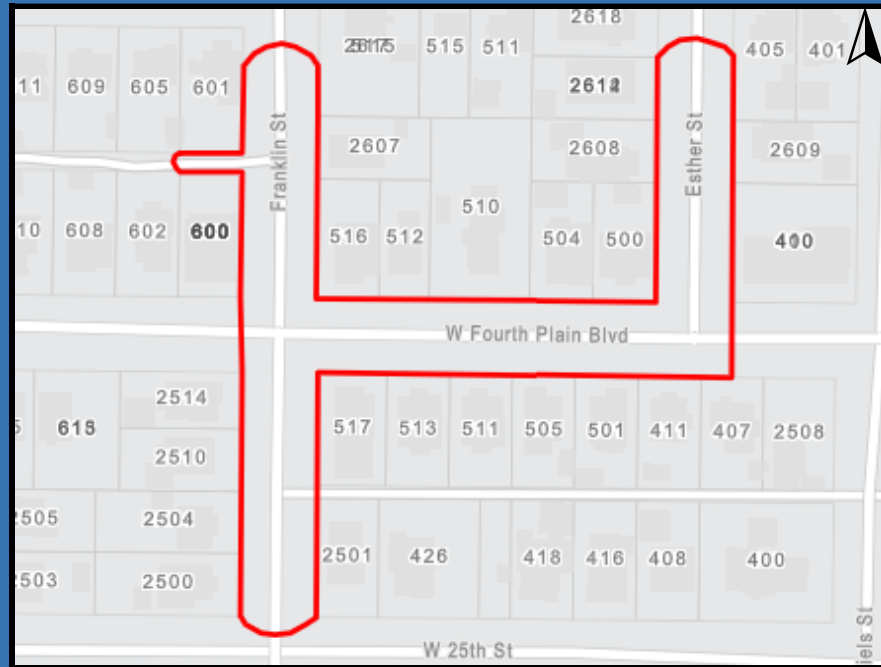
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

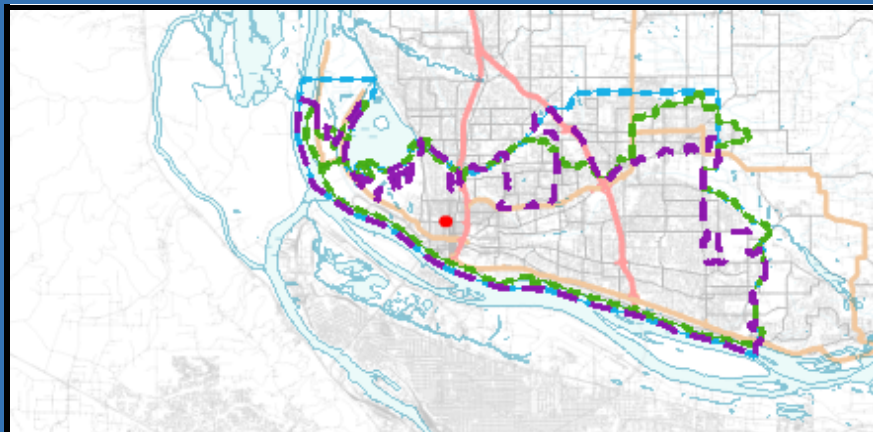
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Franklin/Esther St Sewer Improvements

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replacing old sewer in need of repair as well as installing new sewer to provide service to parcels on a substandard connection.

Project Justification

4 - Replace/preserve/rehabilitate system - Upgrade the aging sewer lines constructed in 1911.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100741

Grant Funded:

Total Project Cost: \$600,000.00

***Start of Const.:** 2023-2024
(Year)

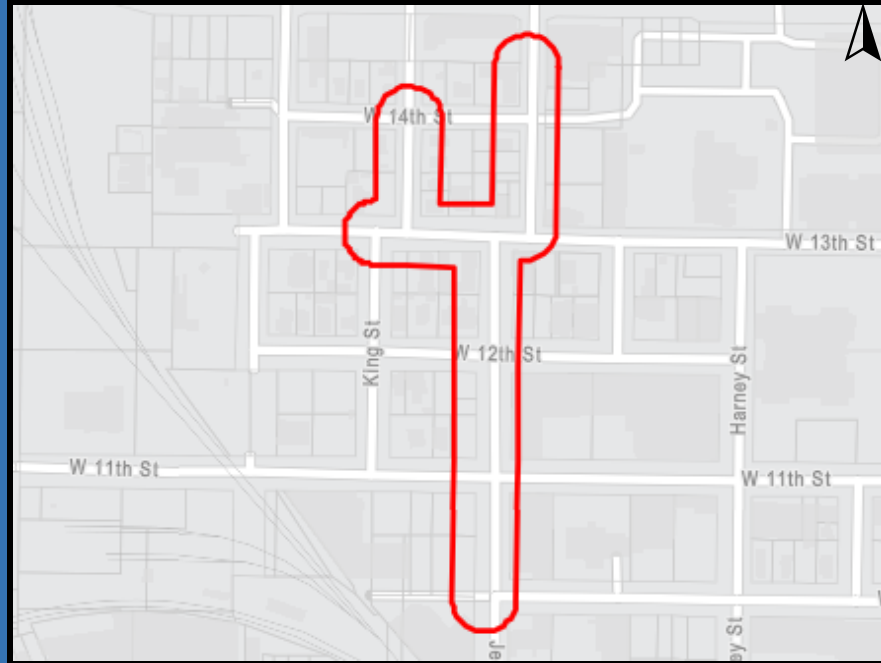
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

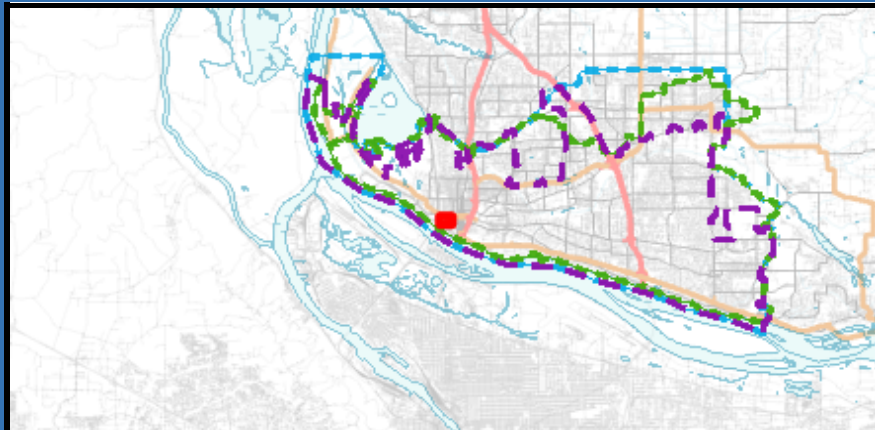
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Jefferson-Kauffman Sewer Improvements

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Replace 1,700 LF of aging, clay existing sewer main in coordination with transportation project.

Project Justification

4 - Replace/preserve/rehabilitate system

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100682

Grant Funded:

Total Project Cost: \$550,000.00

***Start of Const.:** 2024
(Year)

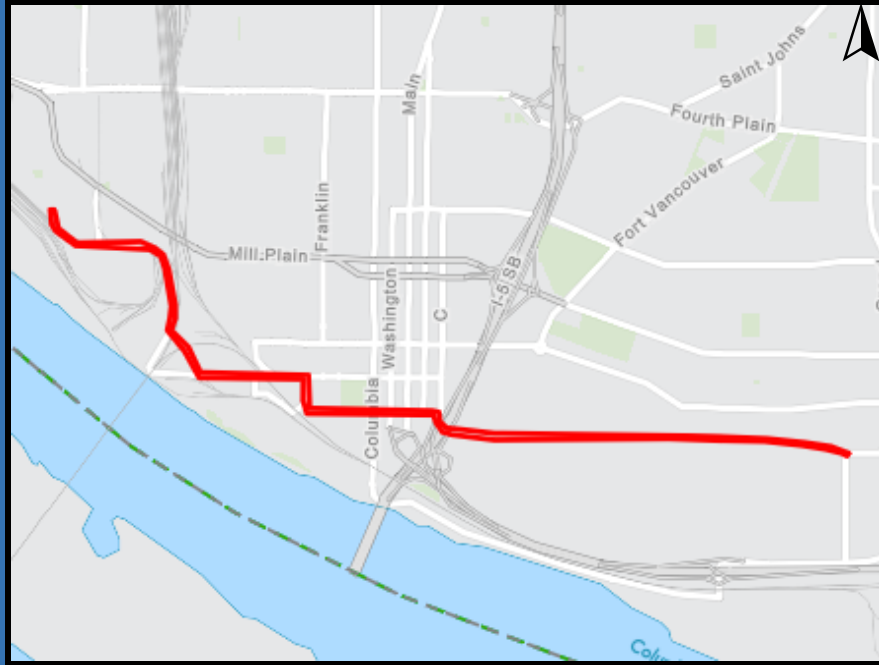
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

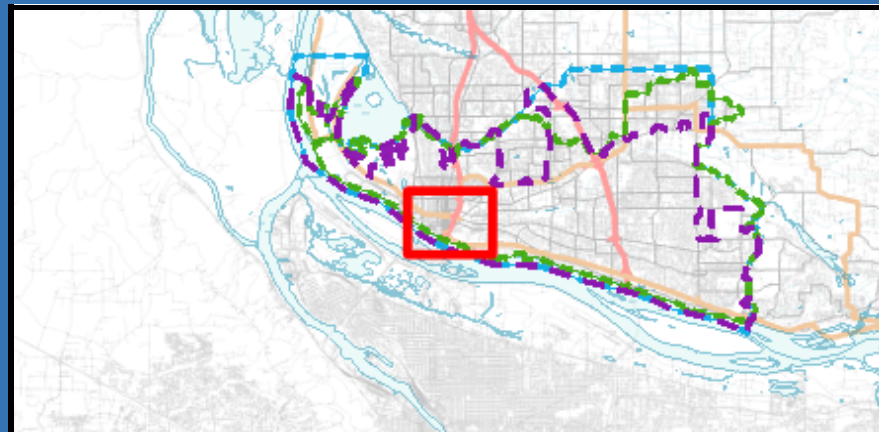
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Southside Interceptor Rehab - Phases 1 - 5**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Southside Interceptor Pipeline rehabilitation at Westside WWTF, to be completed in five phases ranging between 2,100 LF and 2,700 LF apiece.

Project Justification

4 - Replace/preserve/rehabilitate. Ranked as most critically needed repair by Interceptor Condition Assessment Report. To provide consulting design and construction services for re-lining of 42" diameter concrete Southside Interceptor, from Westside

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$10,400,000.00

***Start of Const.:** 2019-2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

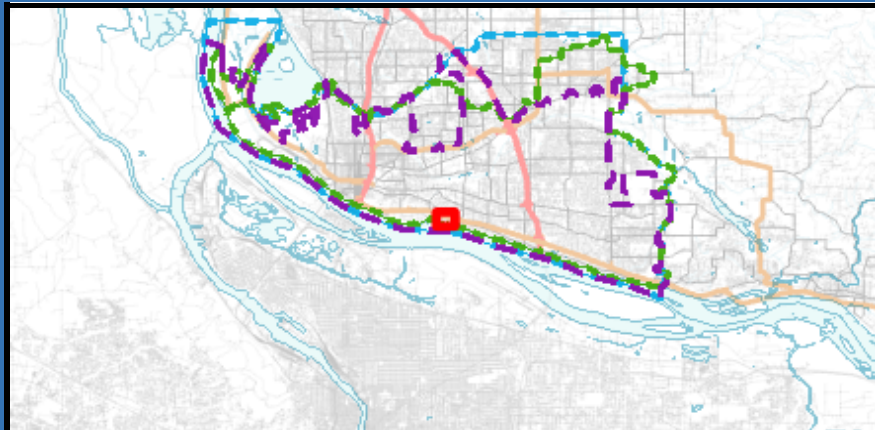
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E Interceptor Rehab Phases 1 to 7

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Rehabilitate E interceptor in seven phases between 2022 and 2030.

Project Justification

4 - replace/preserve/rehabilitate: To provide consulting design and construction services for re-lining of 42" diameter concrete "E" Interceptor, from Marine Park Water Reclamation Facility and upstream. Proposed repairs to use trenchless technology. Phase 1 is estimated at \$3.8M, & rehabilitates 2,613 ft from MH 12759 to MH1424, scheduled for 2022. First of seven phase project: Phase 1 - \$3.2M, 2022; Phase 2 \$0.5 M, 2023; Phase 3 - \$6 M, 2025; Phase 4 -\$2.4M, 2026; Phase 5- \$2.0 M, 2027; Phase 6 - \$2.4M, 2028; Phase 7 - \$10M in 2029-2030. All phases total 17,998 ft. (3.4 miles). Wastewater CIP project priority #6 of 15 projects

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$21,500,000.00

***Start of Const.:** 2021-2030
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside WWTF Process Piping R&R**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

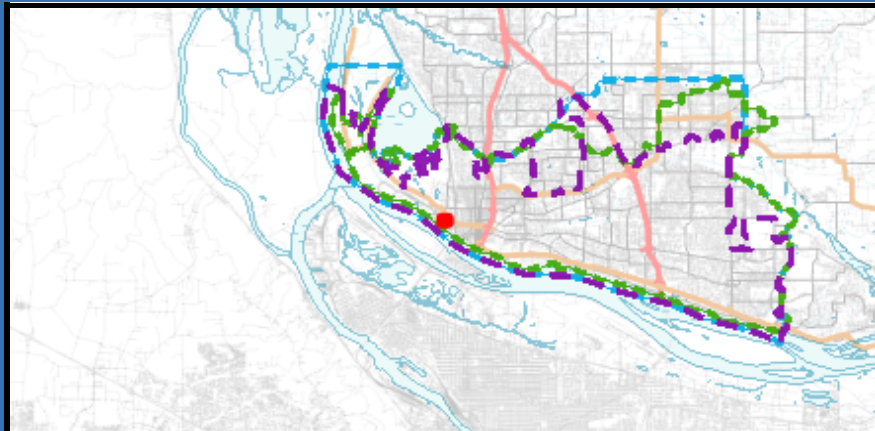
Project Description

Westside WWTF process piping replacement and rehabilitation program.





Project Justification

4 - Replace/preserve/rehabilitate systems. The project is a multi-year project to replace and rehabilitate aging and worn wastewater process piping at Westside Wastewater Treatment Facility.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100767

Grant Funded:

Total Project Cost: \$300,000.00

***Start of Const.:** Ongoing, Cost per
(Year) year

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside WWTF Buildings Coatings Project

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

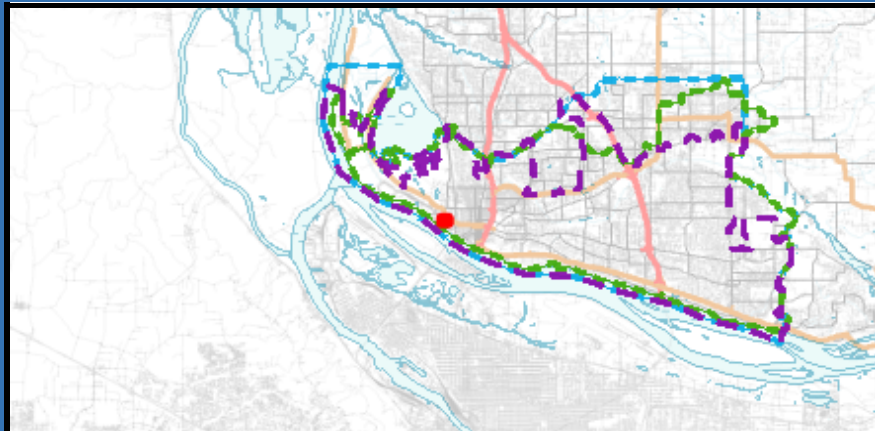
Project Description

Exterior coatings and paint at Westside WWTF buildings and tanks.





Project Justification

4 - Replace/preserve/rehabilitate systems. Protective coatings and paint to preserve exterior surfaces at buildings and tanks, and enhance aesthetics for staff and the public.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100595

Grant Funded:

Total Project Cost: \$100,000.00

***Start of Const.:** Ongoing, Cost per
(Year) year

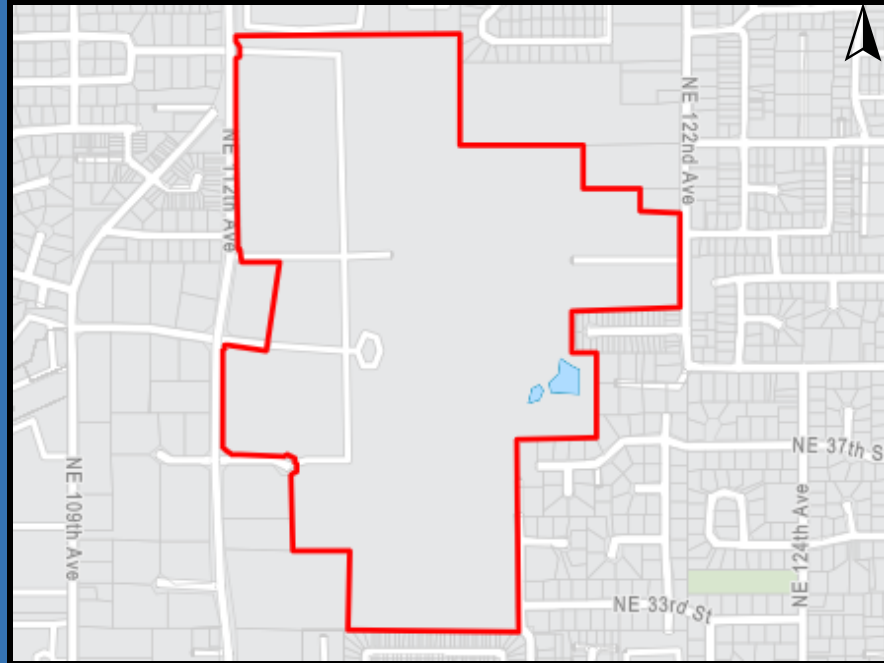
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

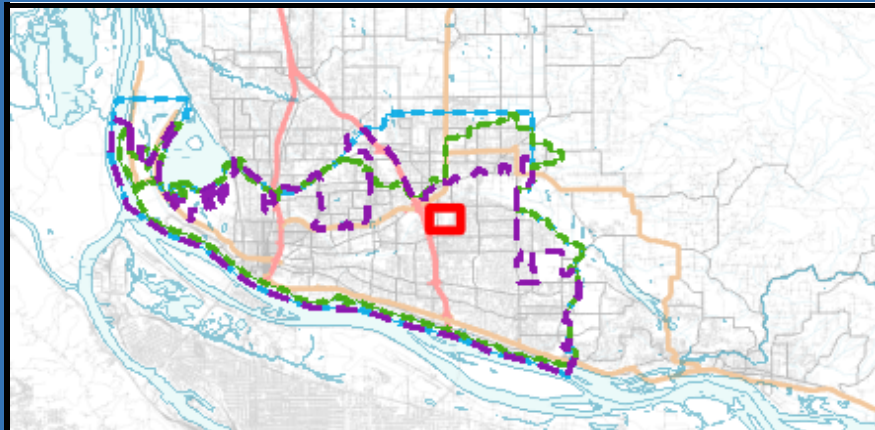
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SEH Industrial Pump Station**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Rehabilitation of SEH Industrial Pump Station.

Project Justification

4 - Replace/preserve rehabilitation systems. Replace worn equipment. Rehabilitate pump station to meet current safety and protective standards.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100915

Grant Funded:

Total Project Cost: \$350,000.00

***Start of Const.:** 2023
(Year)

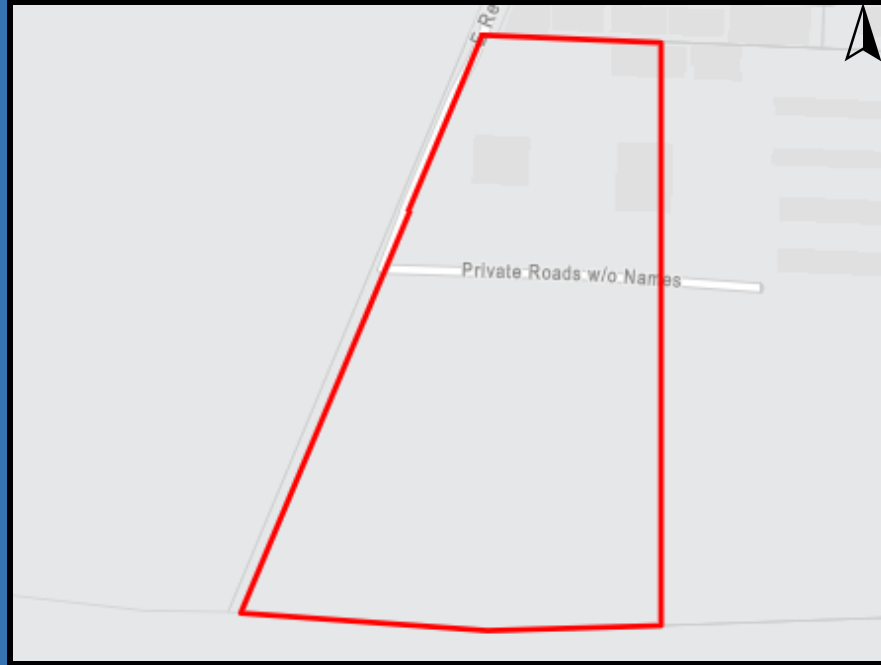
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

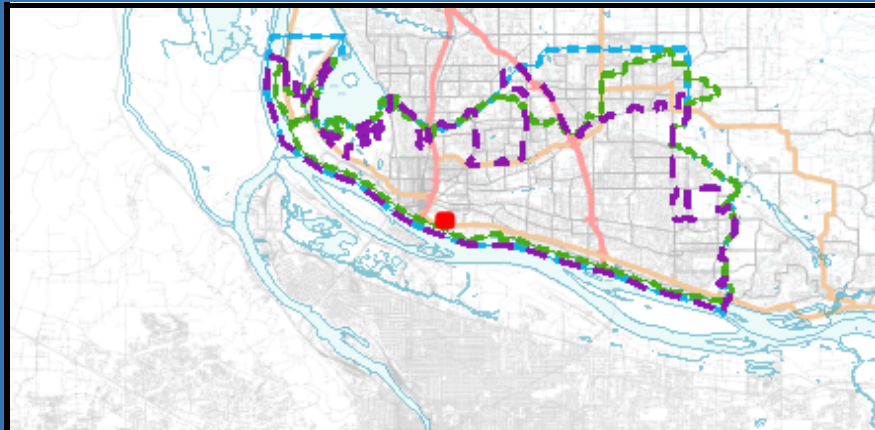
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Pearson Pump Station Upgrade

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Upgrade the existing pump station at Pearson Airpark to a larger pump station with upgraded SCADA as well as upgrades to all other equipment at the station.

Project Justification

4 - Repalce/preserve/rehabilitate systems

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100740

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2023-2024
(Year)

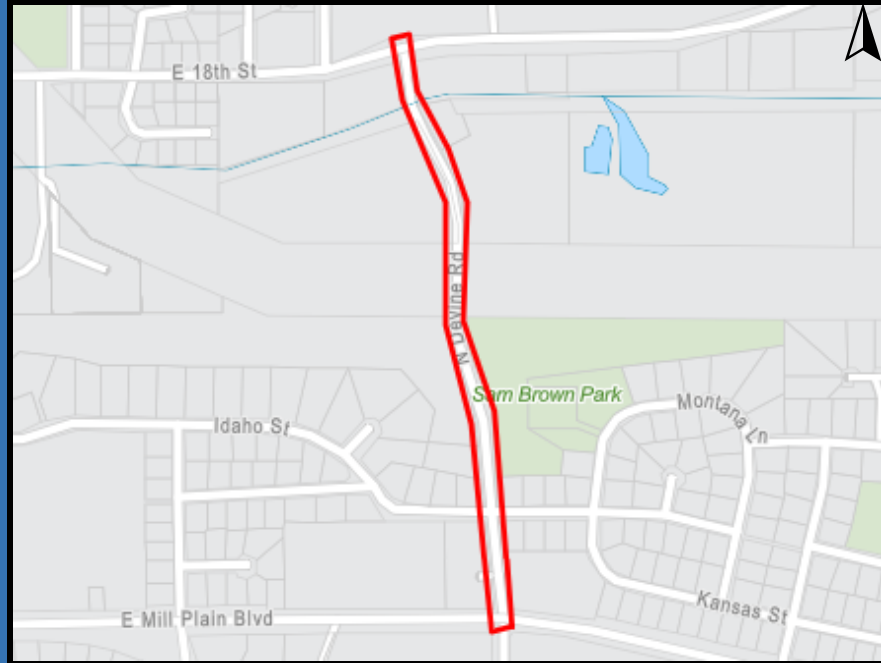
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

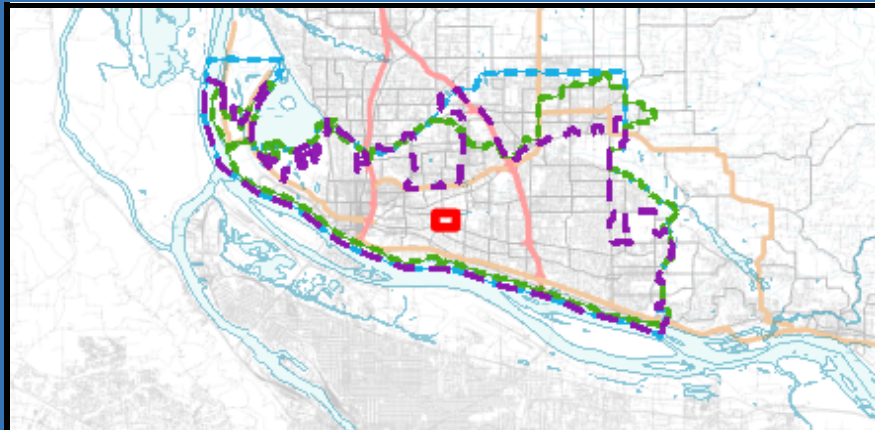
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: G2 Sewer Basin/Trunk Interceptor Realignment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Collection
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This project will consist of the design of the G2-Trunk Re-alignment and will result in a construction project in 2023/2024. The project will plan and design the removal of several hundred feet of existing trunk sewer as well as the re-alignment of a new trunk sewer. PLEASE VERIFY EXTENT IS CORRECT.

Project Justification

4 - Replace/preserve/rehabilitate systems

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100848

Grant Funded:

Total Project Cost: \$1,900,000.00

***Start of Const.:** 2023-2024
(Year)

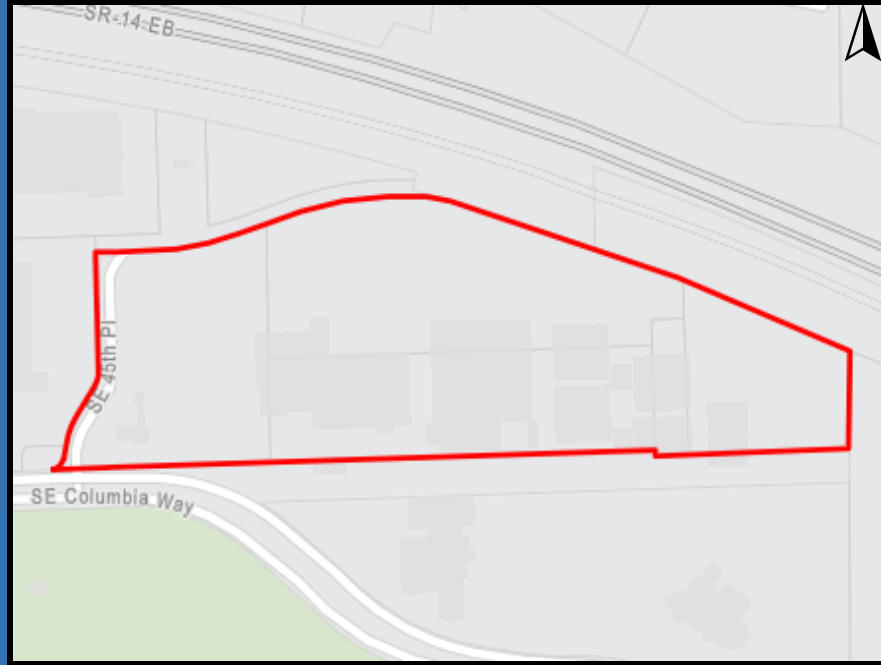
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Marine Park Influent Pump Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Active

PROJECT DESCRIPTION

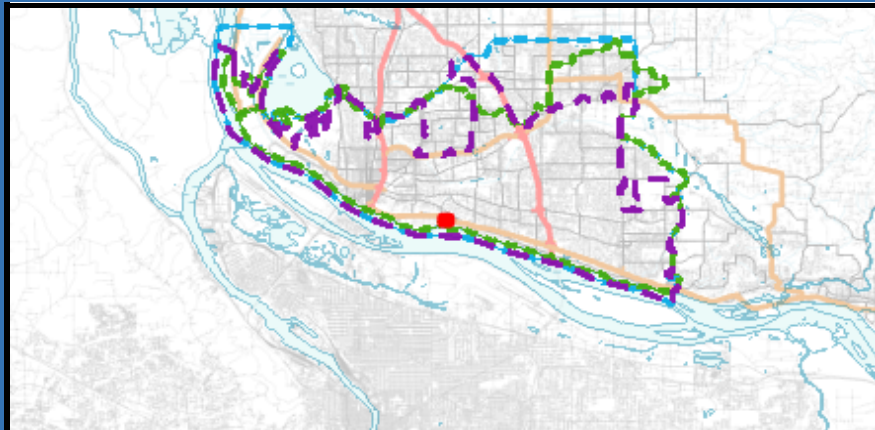
Project Description

Upgrade pump to a non-clog pump to provide reliability and resiliency.





Project Justification

3 - New Systems; to upgrade our existing system to reduce maintenance and improve operator safety.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100878

Grant Funded:

Total Project Cost: \$800,000.00

***Start of Const.:** 2023
(Year)

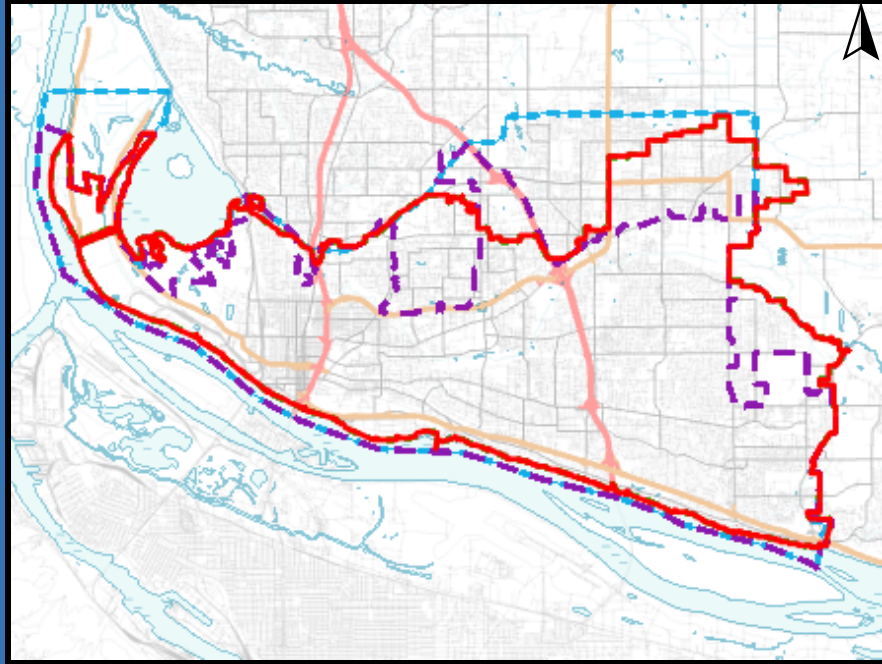
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

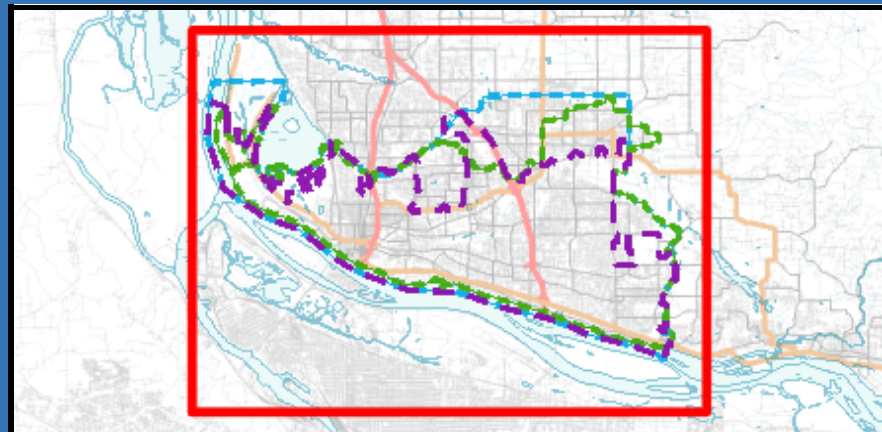
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Service Area Flow Monitoring**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Distribution
Project Status:	Future

PROJECT DESCRIPTION

Project Description

In preparation for the hydraulic model update in 2024/25, the City will be collecting flow data system wide.

Project Justification

1 - Regulatory compliance, 2 - Improve safety

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100945

Grant Funded:

Total Project Cost: \$450,000.00

***Start of Const.:** 2024
(Year)

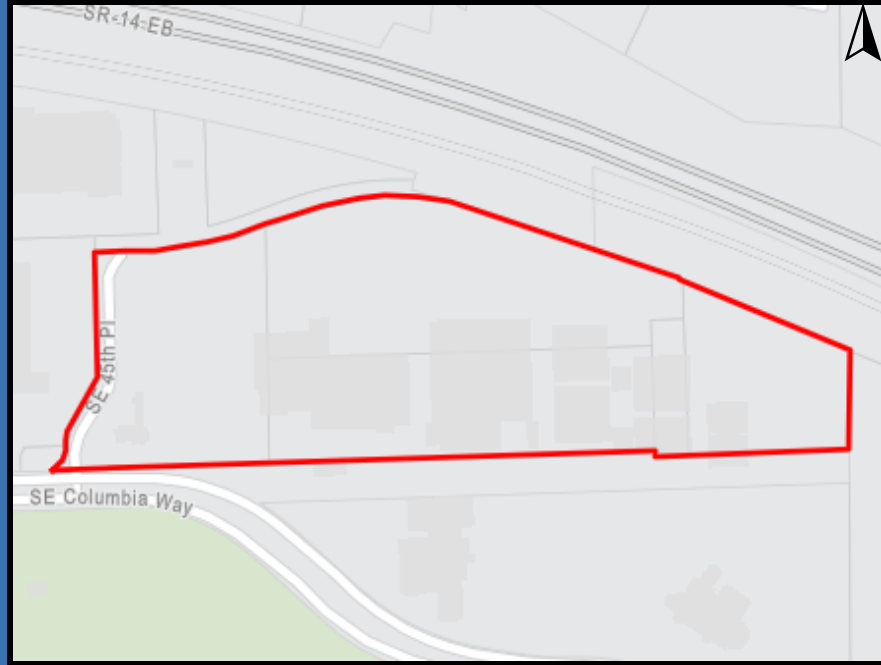
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Marine Park Medium Voltage Upgrade**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

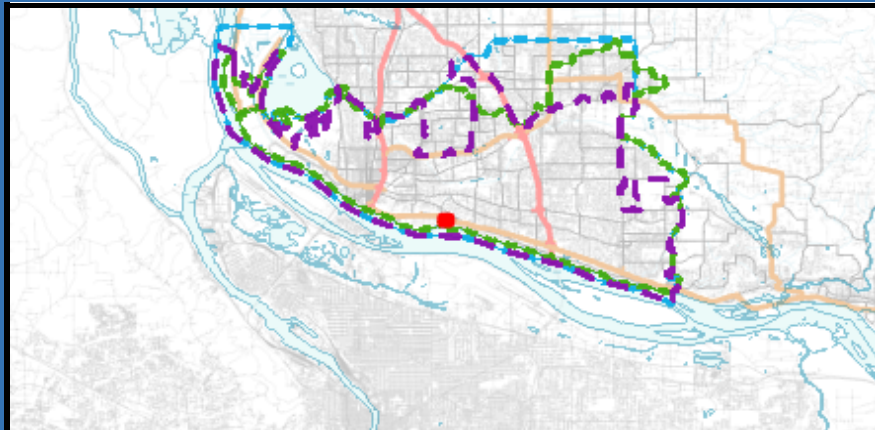
Project Description

Upgrade Marine Park electrical system

Project Justification

4 - Replace/preserve/rehabilitate system

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$800,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Westside Influent Pump Gallery Rehab**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

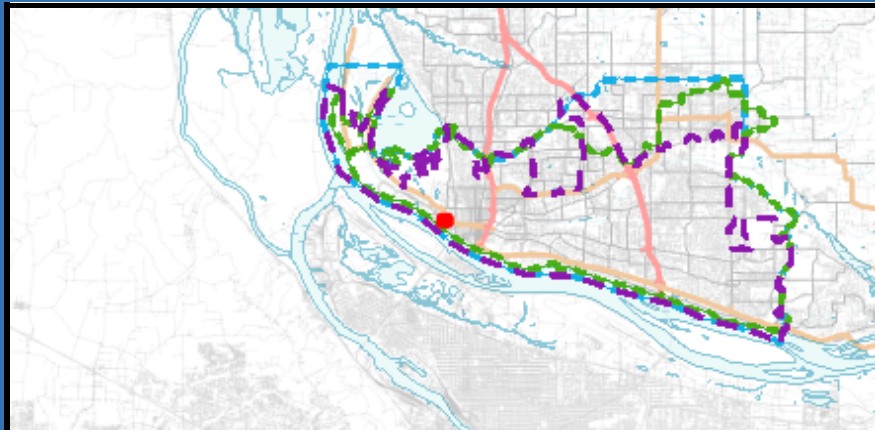
Project Description

Rehabilitate Westside influent pump gallery.

Project Justification

4 - Replace/preserve/rehabilitate system

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$1,700,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Influent Screens Upgrade

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

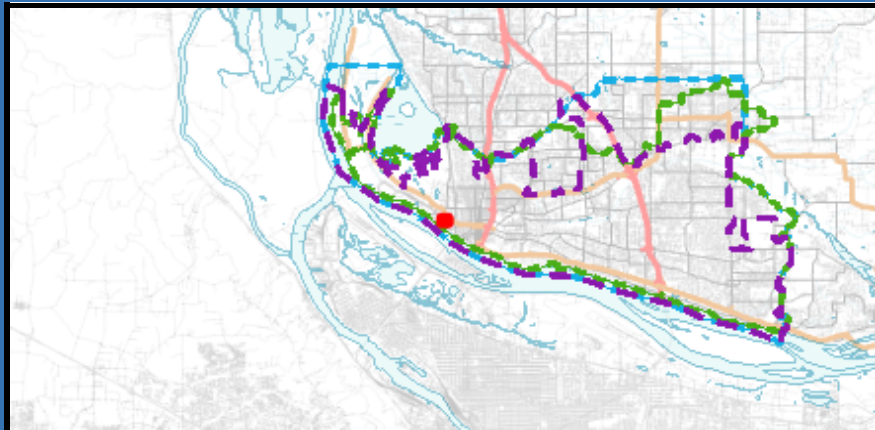
Project Description

Upgrade of the Westside influent screens.

Project Justification

4 – Replace/preserve/rehabilitate systems – Replace influent screens to extend system service life.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$300,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Incinerator Ash Drum Replacement

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

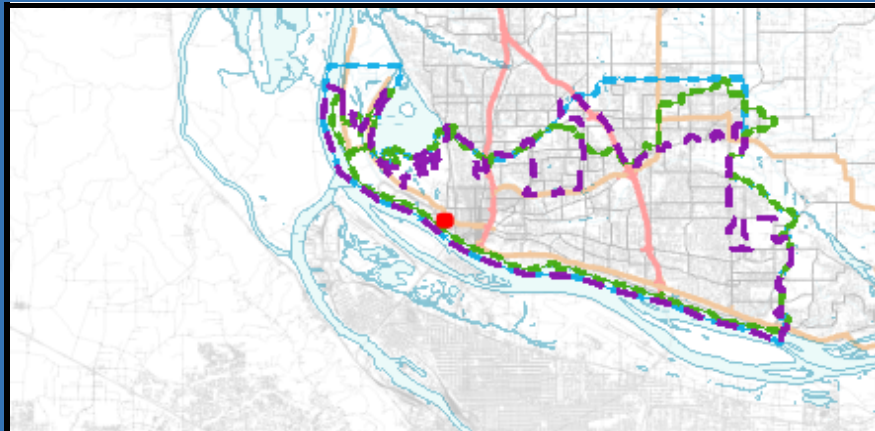
Project Description

Replace the Westside incinerator ash drum with modern technology.





Project Justification

4 – Replace/preserve/rehabilitate systems – Existing incinerator ash drum is at end of useful life. The system experiences frequent downtime and currently requires increasing maintenance.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$650,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Westside Equipment and Parts Storage Building

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Sanitary Sewer
Project Type:	Treatment
Project Status:	Future

PROJECT DESCRIPTION

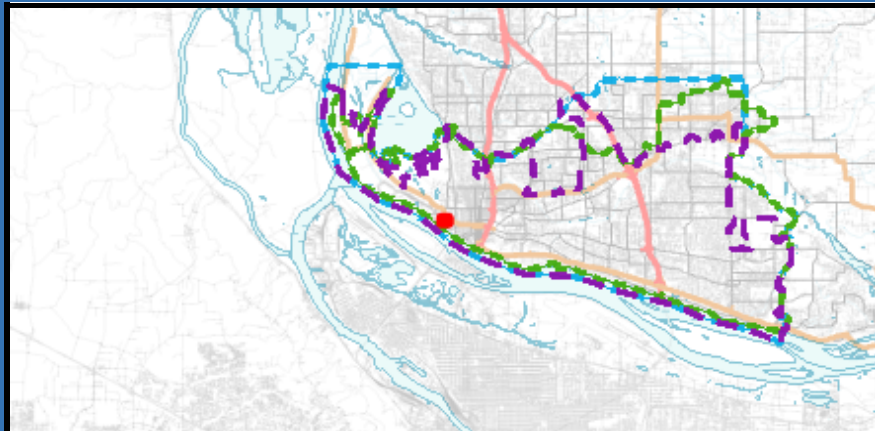
Project Description

New storage building for wastewater and sewer collection equipment and parts.





Project Justification

3 – New systems – Shared building for consolidating equipment and parts in climate control space to ensure spare parts are accessible.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$2,000,000.00

***Start of Const.:** 2026
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



20 YEAR CAPITAL IMPROVEMENT PROGRAM FOR
SEWER COLLECTIONS AND WASTEWATER
(2024-2044)

Note: All costs are in 2023 dollars
Updated August 2023

Project Name	Project Number	CIP #	Spent to Date (Start thru 2022)	2023**	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	20 Year Total	
Collection																											
Standby Power	PRJ083471	SS-A1-3	23,872	100,000	100,000	100,000	100,000	100,000	100,000																	500,000	
Main Street, 5th to 15th*	PRJ100790	SS-5	663	20,000	780,000																					780,000	
Heights District Redevelopment	PRJ100712	SS-182	178,635	142,765	1,000,000	550,000																				1,550,000	
IR - Interceptor Rehabilitation	PRJ083584	SS-A1-135		1,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	42,000,000	
Manhole/Wye Rehabilitation	PRJ100789	SS-A1-138		200,000	300,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	2,300,000
Basin A-20-1 & Force Main Relocation (59th Street)	PRJ100250	SS-1				500,000																				500,000	
Capital Preservation - Collection System	PRJ083591	SS-A1-6	2,603	2,000,000	3,000,000	3,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	82,000,000	
SE 1st St. - SE 164th Ave. to SE 192nd Ave Design*	PRJ083594	SS-15	793	20,000	380,000																					380,000	
NE 137th Avenue - NE 49th St. to NE Fourth Plain Blvd*	PRJ100251	SS-20			640,000																					640,000	
Wastewater Collection SCADA	PRJ083711	SS-153	100,824	150,000	150,000	150,000	150,000	150,000	150,000																	750,000	
Southside Interceptor Rehab Ph 4 & Ph 5	PRJ100476	SS-152	210,020	3,500,000	1,000,000																					1,000,000	
Burnt Bridge Creek Interceptor - Ph 1	PRJ100755	SS-164		200,000	1,200,000																					1,200,000	
Burnt Bridge Creek Interceptor - Ph 2	TBD	SS-164			150,000																					150,000	
Burnt Bridge Creek Interceptor - Ph 3	TBD	SS-164			50,000																					50,000	
Burnt Bridge Creek Interceptor - Ph 4	TBD	SS-164			50,000																					50,000	
East - Interceptor Rehab PH 1 & PH 2	PRJ100478	SS-163	364,473	4,000,000	1,000,000																					1,000,000	
East - Interceptor Rehab PH 3	TBD	SS-163			200,000	2,200,000																				2,400,000	
East - Interceptor Rehab PH 4	TBD	SS-163			200,000	4,000,000																				4,200,000	
East - Interceptor Rehab PH 5	TBD	SS-163				200,000	2,000,000																			2,200,000	
East - Interceptor Rehab PH 6	TBD	SS-163							2,400,000																	2,400,000	
East - Interceptor Rehab PH 7	TBD	SS-163								2,500,000	2,500,000															5,000,000	
Maplecrest PS Reconstrution	PRJ100657	SS-172	184,928	1,500,000	1,000,000																					1,000,000	
AB-1 Rehab	TBD	SS-198										1,500,000														1,500,000	
B 1-2 Rehab	TBD	SS-199										800,000														800,000	
Pearson Pump Station Upgrade	PRJ100740	SS-1050	24,535	44,000	1,456,000																					1,456,000	
Franklin/Esther St. Sewer Improvements	PRJ100741	SS-188		12,500	587,500																					587,500	
G2 Sewer Basin/Trunk Interceptor Realignment	PRJ100848	SS-1051	9,378	226,000	1,674,000																					1,674,000	
Jefferson-Kauffman Sewer Improvements*	PRJ100682	SS-189	1,052		550,000																					550,000	
Service Area Flow Monitoring	PRJ100945	SS-1065			450,000																					450,000	
Section 30 Arterial Expansion	PRJ100475	SS-23						1,000,000																		1,000,000	
Westridge/Fishers PS Force Main Assessment	PRJ100660	SS-173	31,679		200,000	500,000																				700,000	
Collection Sub-Total				13,115,265	17,917,500	9,300,000	10,550,000	9,350,000	8,750,000	8,600,000	8,600,000	8,400,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	6,100,000	160,767,500	
Treatment																											
Marine Park WWTF:																											
Marine Park Bar Screens Upgrade	PRJ100719	SS-160	59,396	669,800		2,600,000																				2,600,000	
Marine Park Phase 2B - Secondary Process Enhancements	TBD	SS-177		250,000	2,250,000	3,250,000																				5,500,000	
Marine Park - Refurbish Odor Control System	TBD	SS-85				1,000,000																				1,000,000	
Marine Park UV Upgrade	PRJ100718	SS-157		450,000	1,400,000																					1,400,000	
Marine Park Solids Conveyance	PRJ100768	SS-178		500,000	1,500,000		9,100,000	9,100,000																		19,700,000	
Marine Park Phase 3 - Complete Full Site Capacity Improvements	PRJ100765	SS-181																24,700,000	24,700,000							49,400,000	
Marine Park WWTF Process Piping R&R	PRJ100766	SS-176		200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	4,200,000	
Marine Park Influent Pump Replacement	PRJ100878	SS-1061		400,000	400,000																					400,000	
Marine Park Medium Voltage Upgrade	TBD	SS-1066			200,000	200,000	400,000																			800,000	
Westside WWTF:																											
Westside WWTF Process Piping R&R	PRJ100767	SS-180		200,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	6,200,000	
Westside Influent Pump Gallery Rehab	TBD	SS-1067		300,000	1,700,000																					1,700,000	
Westside Sodium Hypochlorite Delivery	PRJ100720	SS-175				100,000																				100,000	
West 16th St. Pump Station Improvements	TBD	SS-58			200,000																					200,000	
West 16th St. Force Main Reline	PRJ083581	SS-131			150,000																					150,000	
Westside Odor Control Planning	PRJ100761	SS-81			100,000	500,000																				600,000	
Industrial Coating Projects	TBD	SS-34			250,000	250,000																				500,000	

Sewer Connection Incentive Program (SCIP)



SCIP Project List



Sewer Connection Incentive Program (SCIP) CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2022-2027) to this year's 6-year project list (2024-2029). The changes are segmented by: projects added, projects removed and other.

Projects Added	CIP Number	Comments
None		

Projects Removed	CIP Number	Comments
East Vancouver Ph 3	SCIP-254	Completed in 2022
Central Vancouver North Ph 2	SCIP-255	Completed in 2021
Grove St Gillis St Sewer Extension – Ops SCIP	SCIP-258	Completed in 2021
NE 49 th St & 22 nd Ave Sewer Improvements	SCIP-259	Completed in 2023
NE 58 th - Andresen	SCIP-155	Completed in 2023
Vista Robles	SCIP-204	Completed in 2023

Other Changes	CIP Number	Comments
None		

Note: "Completed" indicates already completed as of the date of this document or anticipated completion prior to January 1, 2024.



6 YEAR CAPITAL IMPROVEMENT PROGRAM FOR SCIP (2024 - 2029)

Note: All costs are in 2023 dollars

Updated August 2023

PROJECT NAME	Project Number	CIP#	Spent to Date (Start thru 2022)	2023*	2024	2025	2026	2027**	2028	2029	6 Year Total
Demand Response - SCIP	PRJ083093	SCIP-A1-10	212,553	250,000	250,000	250,000	250,000				750,000
West Vancouver (216 homes)	PRJ083682	SCIP-W-238				500,000	1,000,000	500,000			2,000,000
East Vancouver - North (302 Parcels)	PRJ100258	SCIP-EN-240			400,000	600,000					1,000,000
East Vancouver - Central (632 Parcels)	PRJ100480	SCIP-EC-242		300,000	1,000,000	800,000	1,000,000	600,000			3,400,000
Central Vancouver - North (275 Parcels)	PRJ083685	SCIP-CN-239	7,703					1,500,000			1,500,000
East Vancouver South (167 parcels)	TBD	SCIP-ES-241				500,000	500,000	500,000			1,500,000
Central Vancouver South (186 Parcels)	PRJ100760	SCIP-CS-243	591,672		500,000	500,000	300,000				1,300,000
NE 60th St*	PRJ100471	SCIP-257	135,357	1,500,000	1,400,000						1,400,000
NE 122nd Ave	PRJ100730	SCIP-105	30,697	600,000	600,000						600,000
West Vancouver Ph 1	PRJ100731	SCIP-260	107,915	20,000	20,000						20,000
NE 9th Street East of 112th Ave	PRJ100892	SCIP-234			375,000						375,000
SCIP TOTAL				2,670,000	4,545,000	3,150,000	3,050,000	3,100,000	-	-	13,845,000

*2023 Amounts include projected plus actual spent in 2023 (as of August), whichever is higher

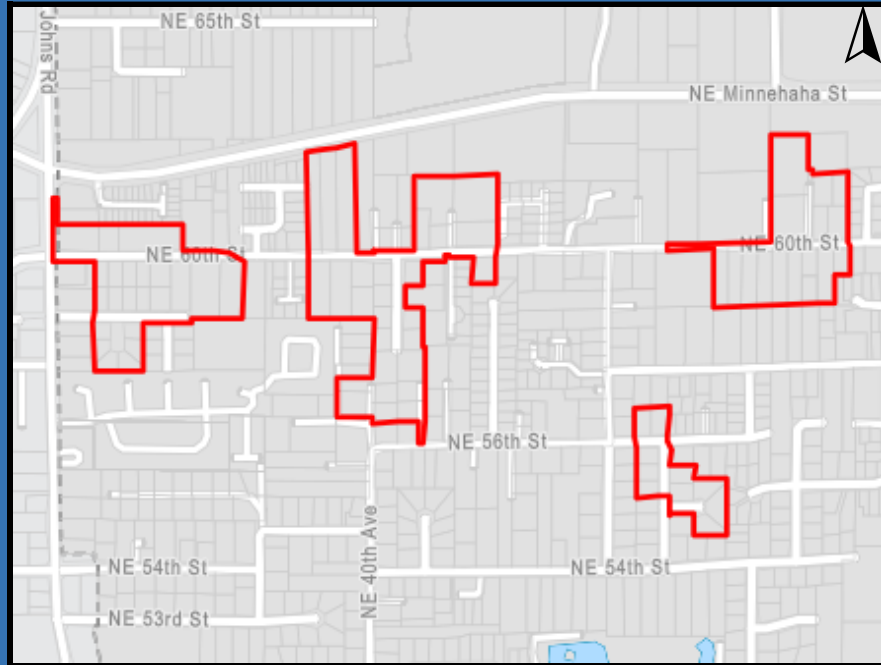
**SCIP projects are projected to be completed by 2027.

Shading indicates not included in 6-year plan, but money expected to be spent in 2023

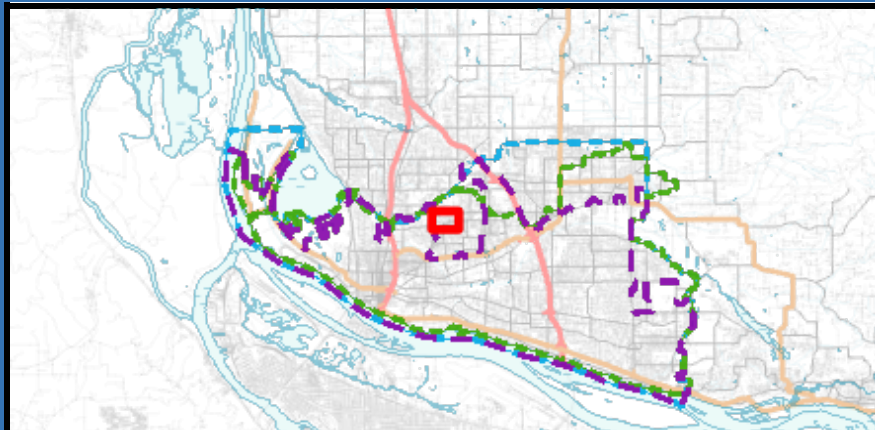
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 60th St**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Active

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems. Project consists of sites previously identified as NE 60th Street Ph. 1 (SCIP-128), NE 60th Street Ph. 2 (SCIP-129), and Fullerton Ph. 3 (SCIP-140).

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100471

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2024
(Year)

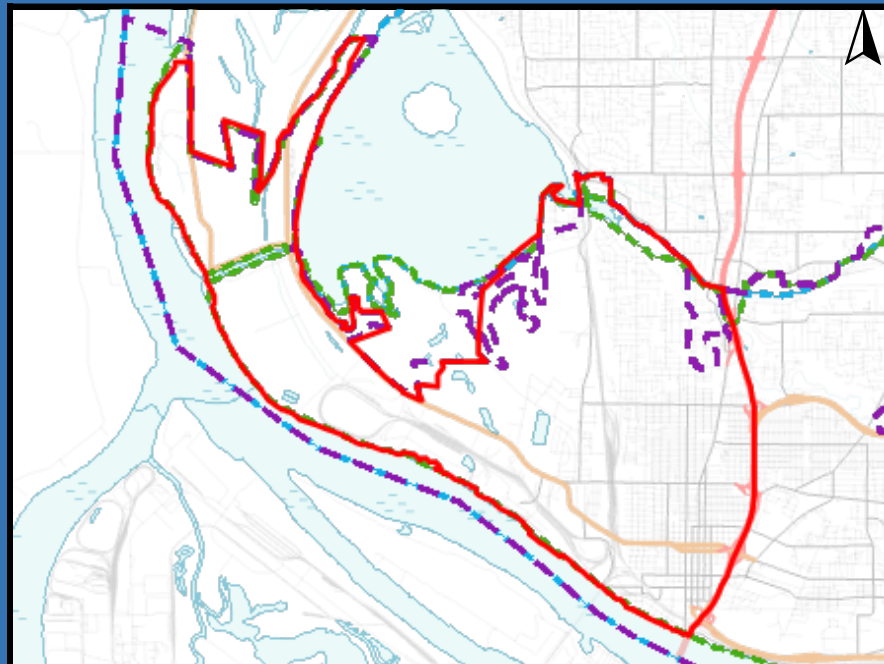
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

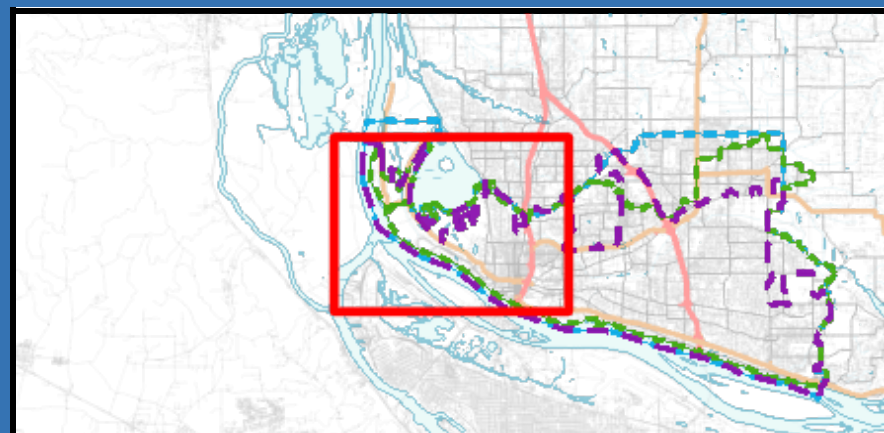
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **West Vancouver**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc

Project Type:

Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended within several small un-sewered pockets west of Interstate 5 as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083682

Grant Funded:

Total Project Cost: \$2,000,000.00

***Start of Const.:** 2025-2026
(Year)

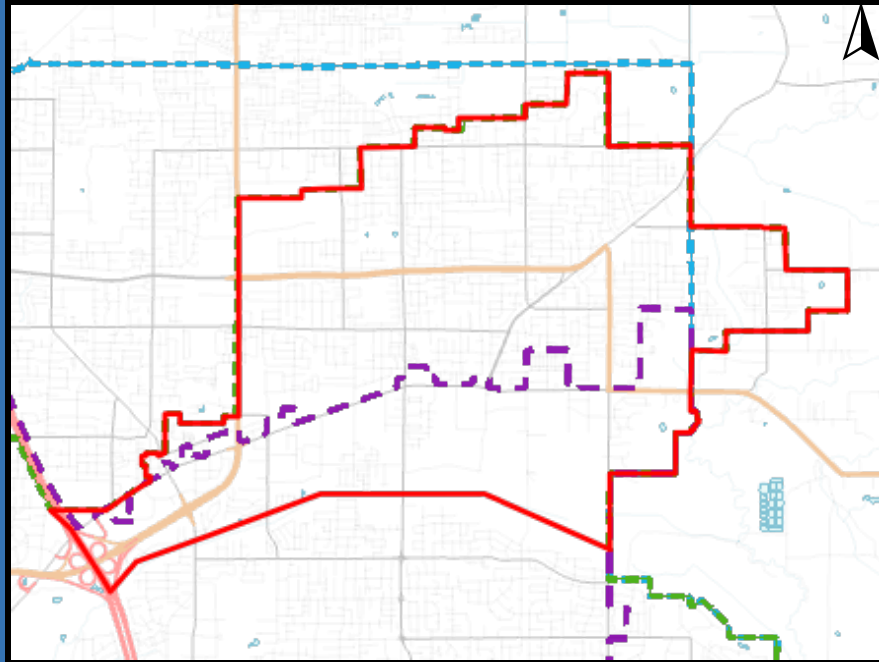
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

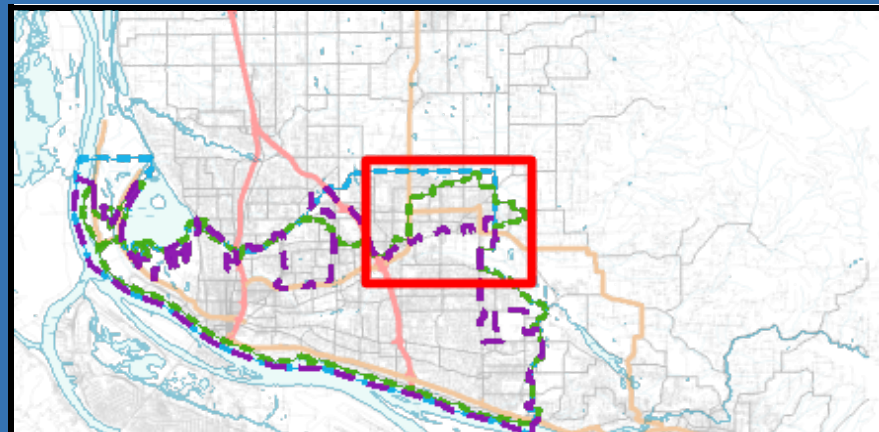
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **East Vancouver - North**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended in several small un-sewered pockets within the north east section of the sewer service boundary as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100258

Grant Funded:

Total Project Cost: \$2,800,000.00

***Start of Const.:** 2023-2025
(Year)

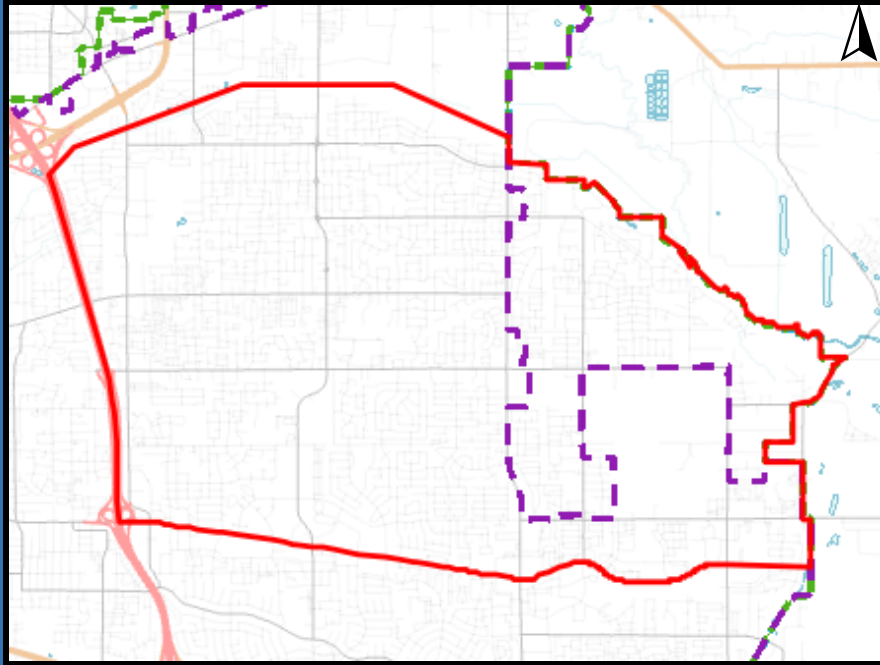
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

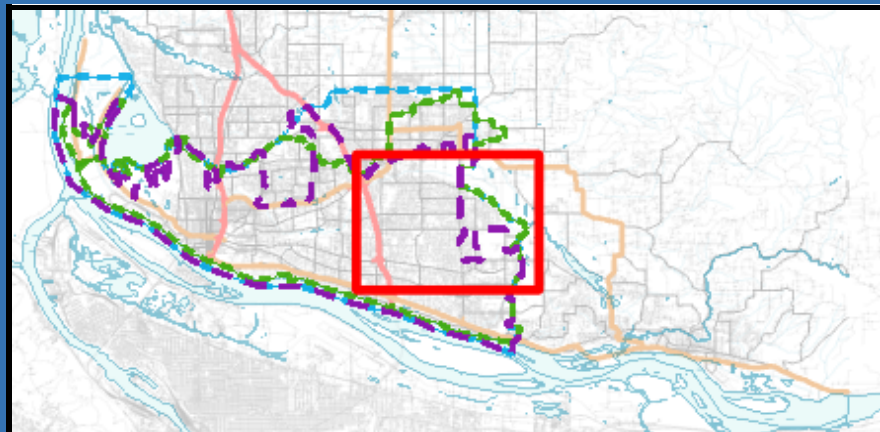
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **East Vancouver - Central**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended in several small pockets within the east central sewer boundary as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083684

Grant Funded:

Total Project Cost: \$3,000,000.00

***Start of Const.:** 2024-2026
(Year)

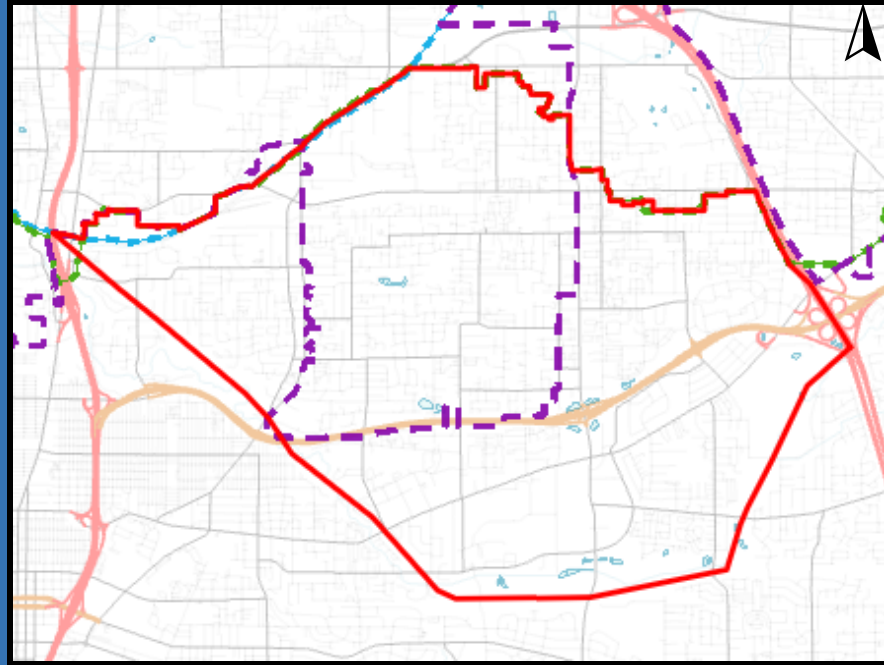
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

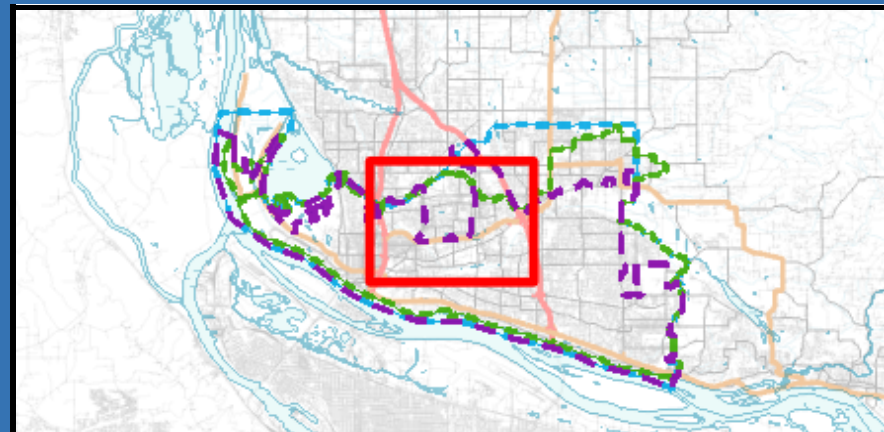
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Central Vancouver - North**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended to small un-sewered pockets within the central - north sewer service boundary as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083685

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2027
(Year)

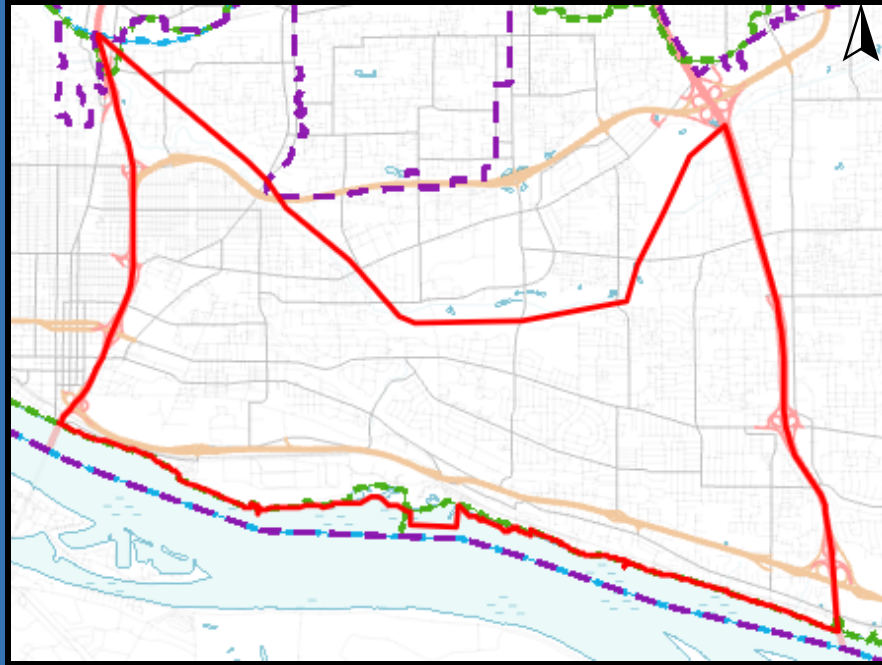
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

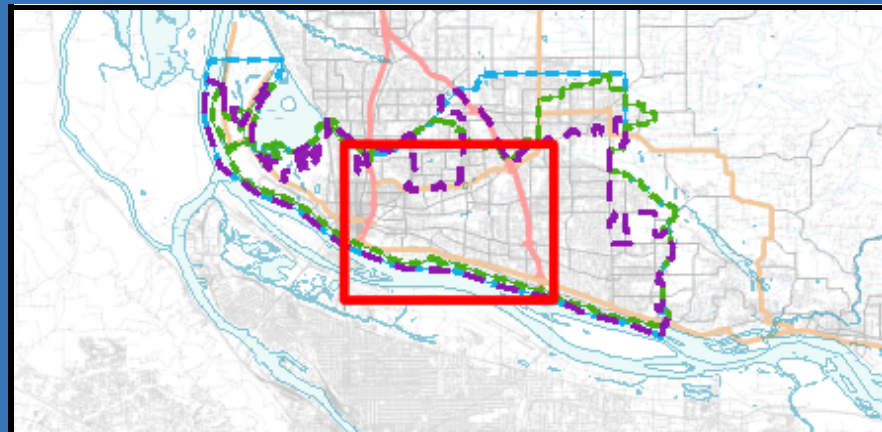
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Central Vancouver - South**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number

Grant Funded:

Total Project Cost: \$1,300,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

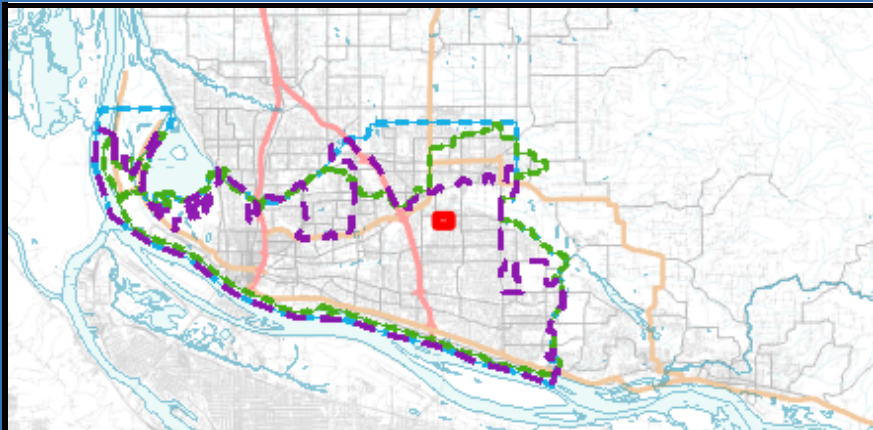
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 122nd Ave**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Active

PROJECT DESCRIPTION





Project Description

Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems. Project also includes sites identified at NE 124th Avenue (SCIP-183) and NE 129th Avenue (SCIP-184).

Project Justification

A prioritization criteria was originally established by the City Engineer at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density and home owner requests. Projects are being completed based on the overall prioritization rating. The projects with the higher priority ratings were completed by 2010 and the remaining projects are prioritized and completed based primarily on health and safety, budget and home owner requests. (2) = Improve Safety; (3) = New Systems

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100730

Grant Funded:

Total Project Cost: \$600,000.00

***Start of Const.:** 2023-2024
(Year)

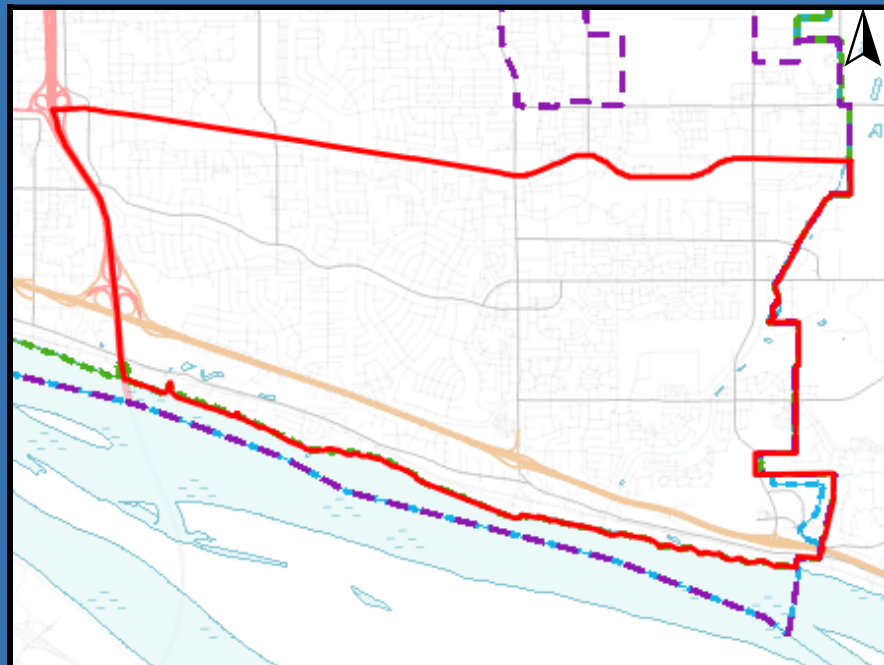
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

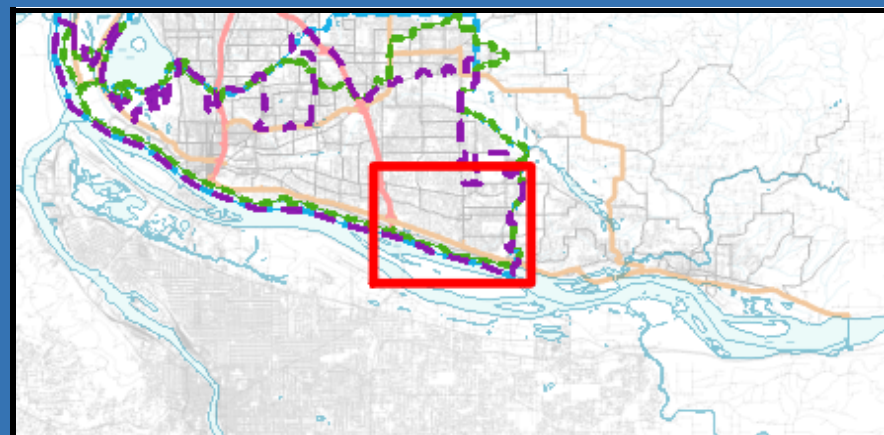
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **East Vancouver - South**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc

Project Type:

Project Status: Future

PROJECT DESCRIPTION

Project Description





Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number

Grant Funded:

Total Project Cost: \$1,500,000.00

***Start of Const.:** 2025-2026
(Year)

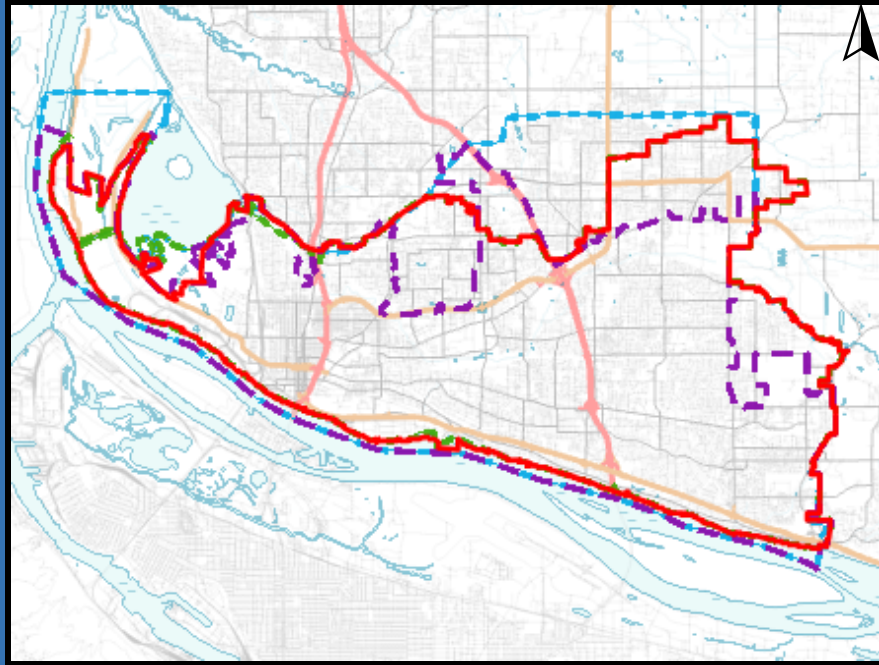
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

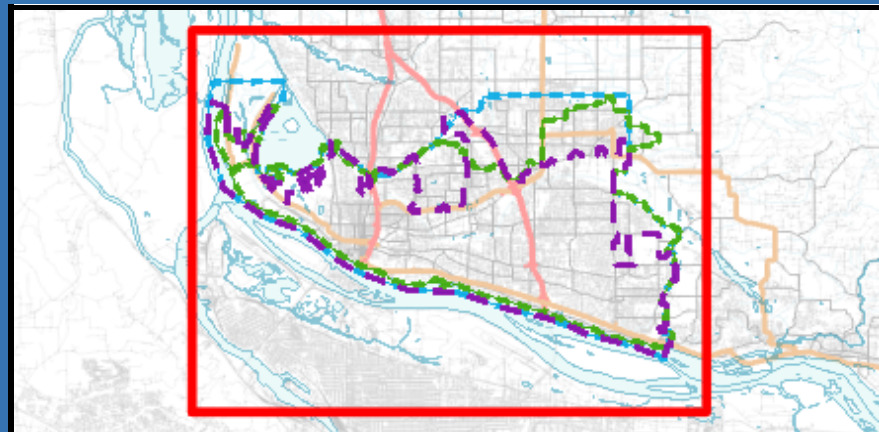
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Demand Response**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Future

PROJECT DESCRIPTION

Project Description

Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.





Sewer extensions of 300 feet or less will be constructed as needed to connect parcels with failing septic systems or failing substandard connections.

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083093

Grant Funded:

Total Project Cost: \$1,250,000.00

***Start of Const.:** 2022-2027
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **NE 9th St**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Active

PROJECT DESCRIPTION

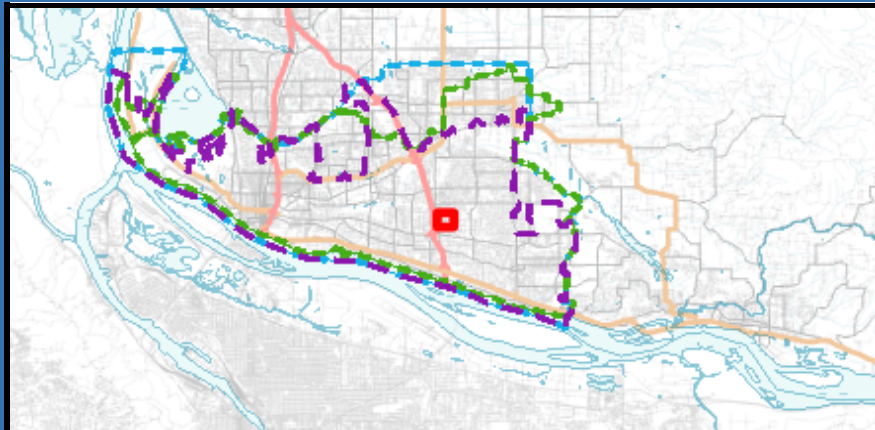
Project Description

Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.





Project Justification

A prioritization criteria was originally established by the City Engineer at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density and home owner requests. Projects are being completed based on the overall prioritization rating. The projects with the higher priority ratings were completed by 2010 and the remaining projects are prioritized and completed based primarily on health and safety, budget and home owner requests. (2) = Improve Safety; (3) = New Systems

VICINITY MAP



LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083718

Grant Funded:

Total Project Cost: \$375,000.00

***Start of Const.:** 2024
(Year)

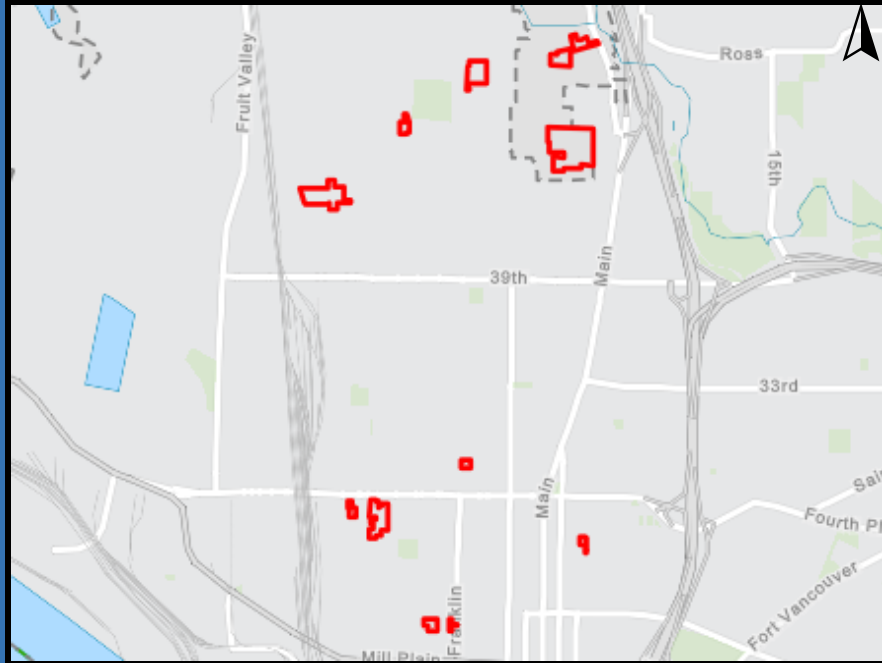
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

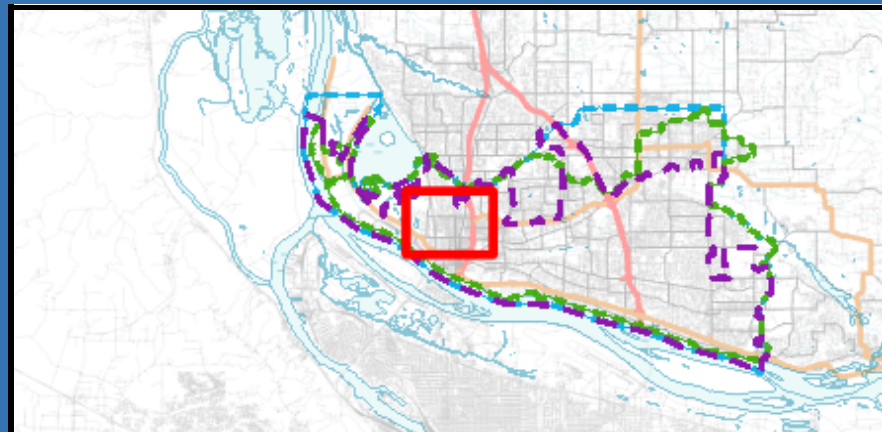
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **West Vancouver Phase 1**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type: Sewer Connection Inc
Project Type:
Project Status: Active

PROJECT DESCRIPTION

Project Description

Sanitary sewer will be extended as part of the City's ongoing proactive efforts to make reliable public sewer available within our service area prior to failure of the existing septic systems.





Project includes sites previously identified as: Esther (SCIP-28), Pender's Addition (SCIP-29), Portland Addition (SCIP-119), Arnada Park (SCIP-120), Lincoln Crest (SCIP-231), and NW 43rd Street (SCIP-247).

Project Justification

(2) = Improve Safety; (3) = New Systems

Prioritization criteria were established at the beginning of the program based on health and safety (viability of existing septic systems), proximity to ground water supply and surface water, density, and homeowner requests. Projects are being completed based on the overall prioritization rating. Higher priority projects were completed by 2010 and the remaining projects are completed based primarily on health and safety, budget and homeowner requests.

LEGEND

-  Project Area
-  City of Vancouver City Limits
-  Sewer Utility Service Boundary
-  Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100731

Grant Funded:

Total Project Cost: \$1,300,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

Surface Water Utility



Surface Water Utility Recent Financial History





SURFACE WATER FUND ACTIVITY (2017-2022)

	2017	2018	2019	2020	2021	2022
Revenue						
Ratepayer Revenue	14,731,122	16,430,604	18,083,133	19,423,876	21,264,804	22,326,191
SRF Loan (included in Misc. Rev.)						
Grants	158,297	222,555	430,911	565,583	660,704	1,779,310
Other Miscellaneous Revenue*	340,956	435,833	543,944	342,482	308,896	297,403
Total Revenue	15,230,375	17,088,992	19,057,988	20,331,941	22,234,404	24,402,904
Expenses						
Salaries & Benefits	4,642,878	5,069,368	5,553,123	5,849,620	5,785,062	5,836,194
Supplies and Services	1,011,738	1,422,954	1,027,667	880,635	1,039,993	1,710,522
Professional Services	645,537	655,466	382,198	550,061	504,990	606,786
Indirects and ER&R	<u>3,099,472</u>	<u>3,502,196</u>	<u>3,542,366</u>	<u>3,791,763</u>	<u>3,695,746</u>	<u>4,097,166</u>
Operations, maintenance, and regulatory expenses	9,399,625	10,649,984	10,505,354	11,072,079	11,025,791	12,250,668
Taxes and fees	3,655,827	4,282,263	5,158,088	5,883,835	6,336,425	6,387,345
Debt Service	88,291	0	0	0	0	0
Capital Construction Expenses	758,683	873,938	1,043,287	768,663	1,370,085	3,502,348
General Fund	0	0	0	0	0	0
Water Fund (Utilities Administration Allocation)	1,214,217	1,339,910	1,443,110	1,452,267	1,495,835	1,540,710
Street Maintenance Fund	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Expenses Subtotal	15,116,643	17,146,095	18,149,839	19,176,844	20,228,136	23,681,071
Depreciation	<u>548,072</u>	<u>844,768</u>	<u>1,017,537</u>	<u>1,017,537</u>	<u>1,083,450</u>	<u>1,225,821</u>
Total Expense	15,664,715	17,990,863	19,167,376	20,194,381	21,311,586	24,906,892

* Other Miscellaneous Revenues include items such as:

Site Plan Review

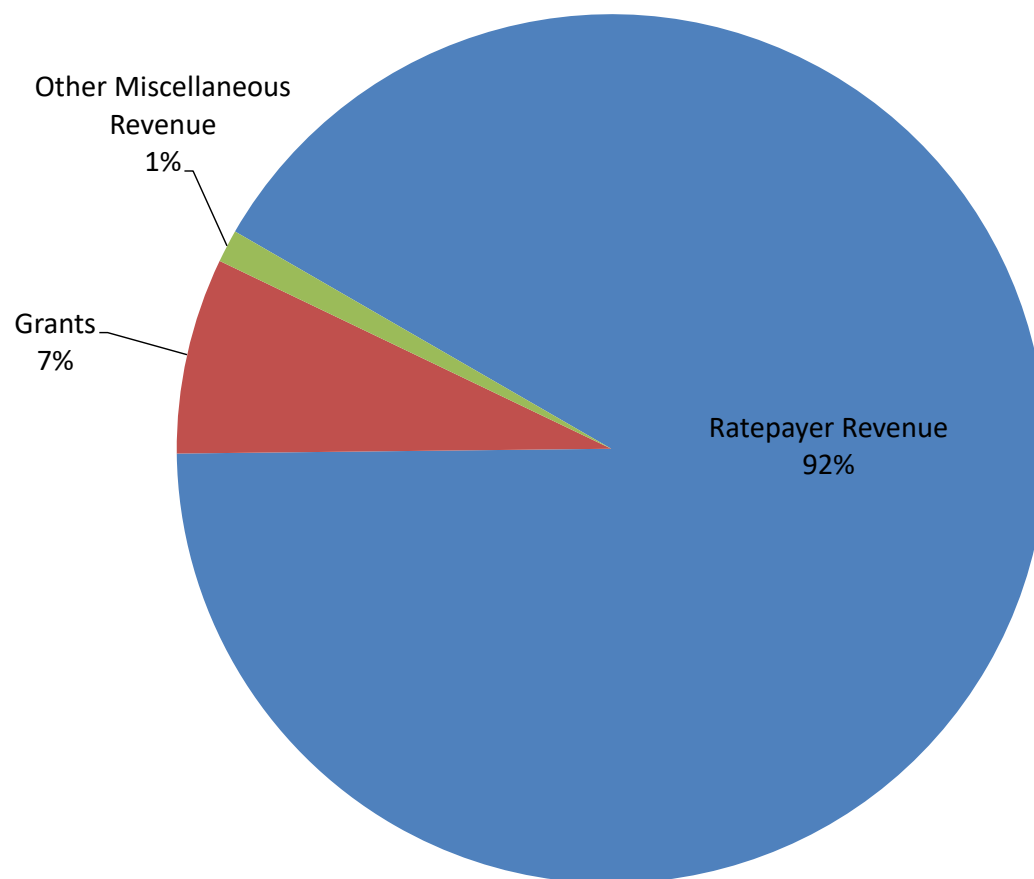
Subdivision Fees

Interest

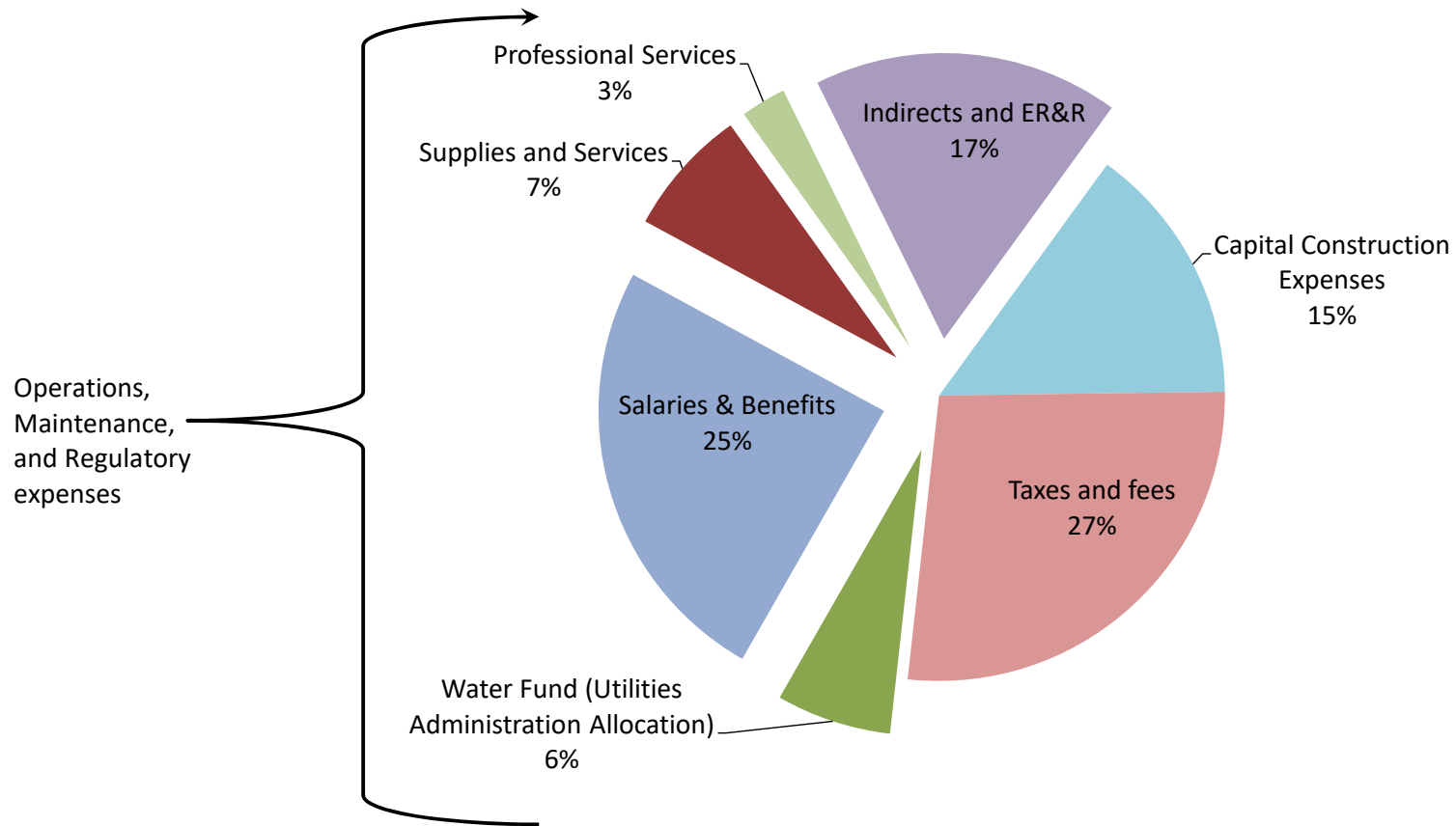
WDOT Revenue

Transfer from General Fund

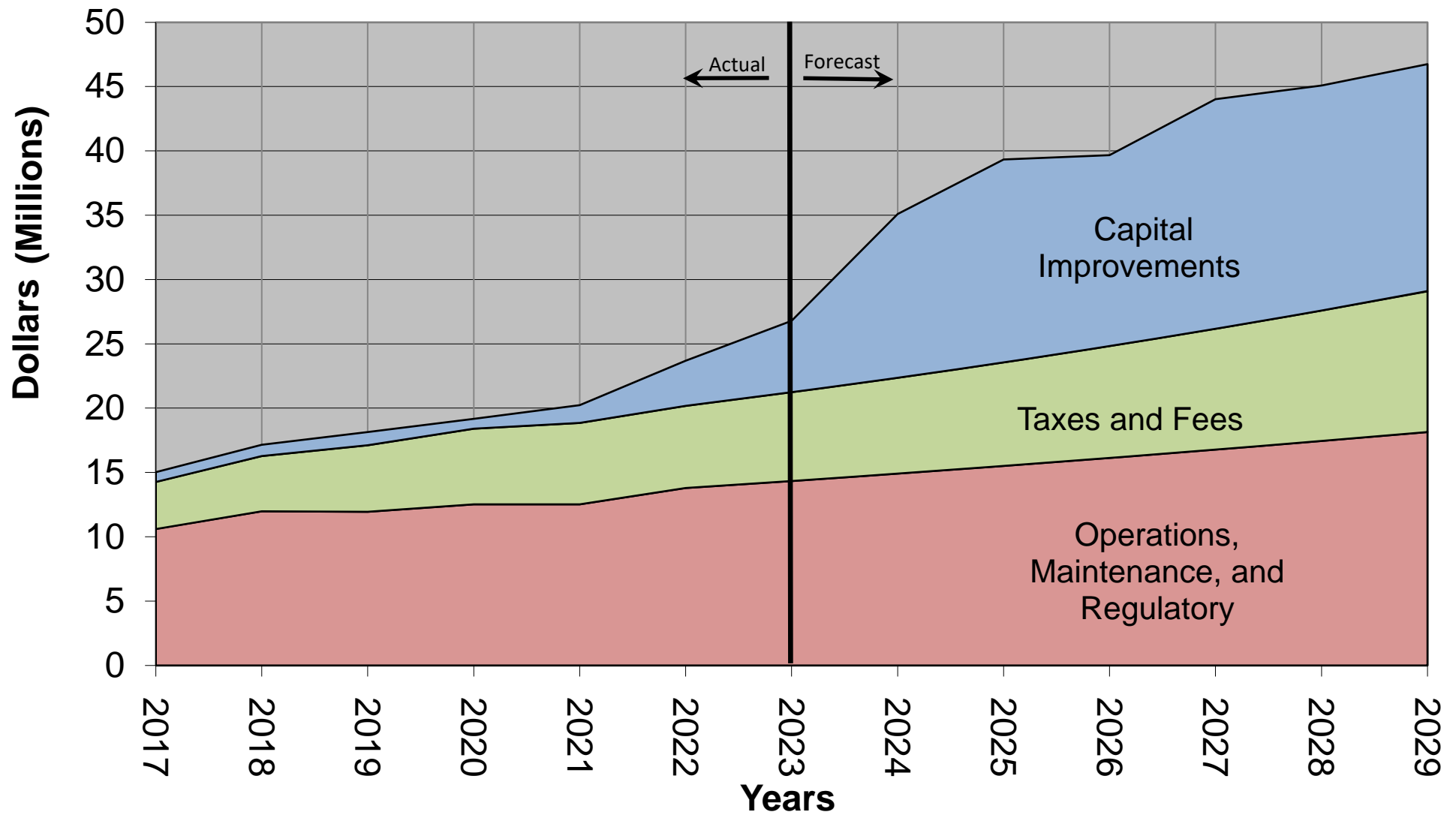
2022 Surface Water Utility Revenues = \$24.4 million



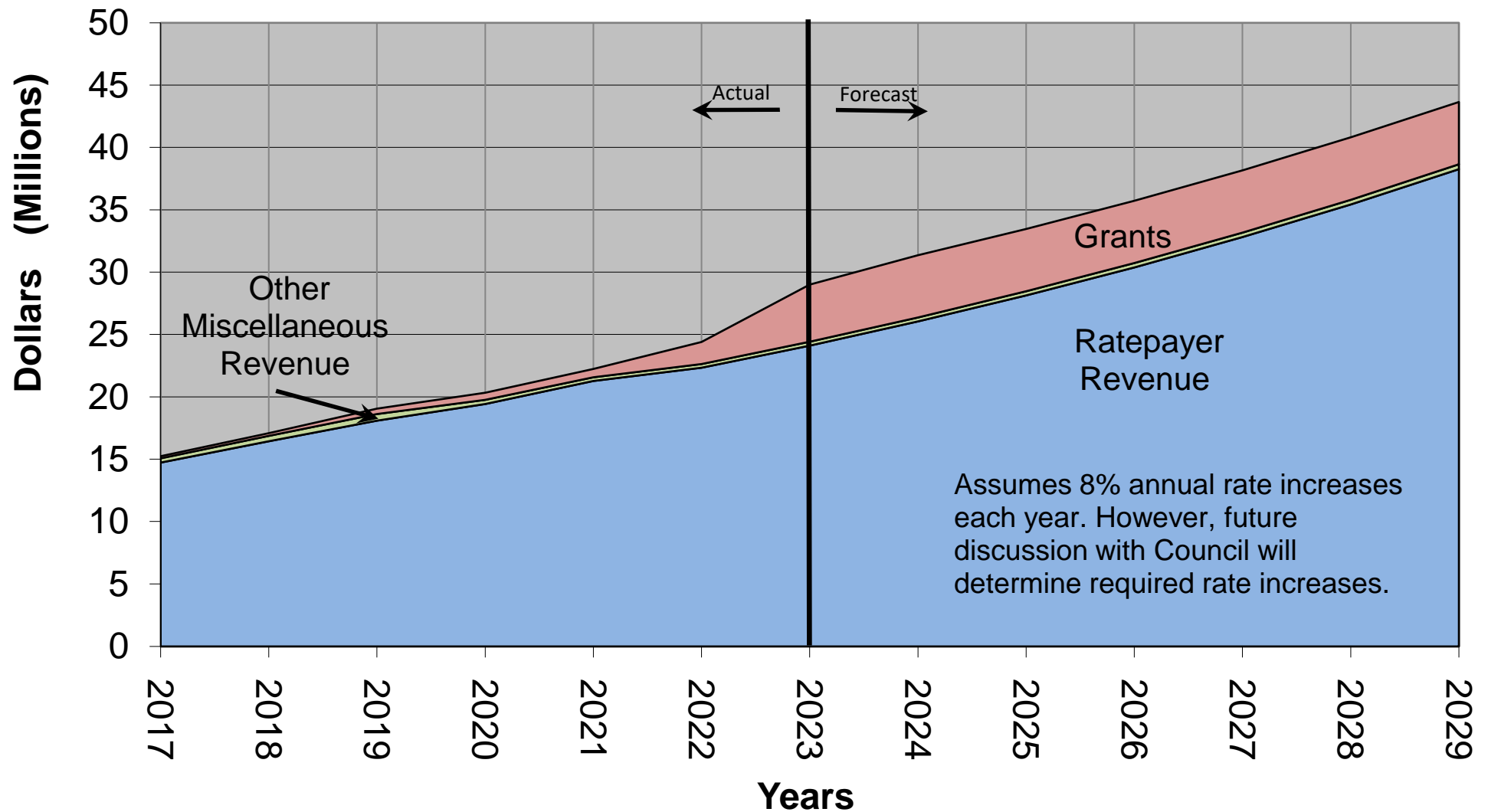
2022 Surface Water Utility Expenses = \$23.7 million



Surface Water Expenses (2017-2029)



Surface Water Revenues (2017-2029)



Surface Water Utility - Project List



Surface Water Utility CIP Changes

This page provides an overview of the changes from the previous 6-year project list (2022-2027) to this year's 6-year project list (2024-2029). The changes are segmented by: projects added, projects removed and other.

Projects Added	CIP Number	Comments
Waste Incentive Network	SW-113	New
Heights District Redevelopment	SW-124	New
Burton Basin Study	SW-1058	New
Columbia Slope Study	SW-1059	New
BBC WQ Study TMDL/SMAP Projects Currently Identified	SW-1060	New
Pollution Prevention Assistance Partnership w/Ecology	SW-A1-39	New project added to existing CIP number
Peterson Channel Study and Design for WSDOT Highway Runoff Impacts	PRJ100928/SW-A1-5	New project added to existing CIP number
Water Quality Monitoring for Washington State Department of Transportation Highway Impacts	PRJ100905/SW-A1-5	New project added to existing CIP number
SE Rivercrest Dr & SR-14 Study & Design	SW-A1-5	New project added to existing CIP number
WSDOT Contributing Area Delineation	SW-A1-5	New project added to existing CIP number
Columbia Slope & SR-14 Study and Design	SW-A1-5	New project added to existing CIP number
Surface Water Manual Re-evaluation and Assessment	SW-80	New CIP number assigned to listed project
Capacity Grant	SW-A1-42	New CIP number assigned to listed project
Peterson Channel basin analysis and rehabilitation (NE 112 th & 39 th)	SW-1068	New CIP number assigned to listed project. Changed name to reflect project more accurately. Moved from Future Studies to Sub-Standard Systems.
Ecology SFAP Grants	SW-1069	New CIP number assigned to listed project
Lincoln Outfall Basin Retrofit - W Fourth Plain	SW-1070	New

Projects Removed	CIP Number	Comments
RC – Expanded Private Stormwater Facility Inspection Program - Grant	PRJ100271/SW-A1-36	Completed in 2023
RC – Lower Grand Industrial Area LID Retrofits - Grant	SW-41	Completed in 2023
SS – Burnt Bridge Creek Storm Water Outfall	PRJ100445/SW-A1-36	Completed in 2022
WP – Burton Channel Green Retrofit-Basin Study and Design - Grant	SW-40	Completed in 2023
WP – Capacity Grant	PRJ100447/SW-A1-39	Completed in 2023, Capacity Grant 2020
DR – Stormwater Retrofits – Demand (Major Projects)	PRJ083356/SW-A1-12	Completed in 2021
WSDOT Fees – 2018 Use Only	PRJ083154/SW-A1-5	Completed in 2021
RC – NE Ross Street LID Retrofits - Grant	SW-46	Completed in 2023
SS – Fruit Valley Rd	PRJ083642/SW-53	Completed in 2023
WP – Source Control (EPA Grant)	PRJ100451/SW-A1-39	Completed in 2023
SS – SE 17 th Street Outfall	PRJ083666/SW-48	Completed in 2023

WP – Columbia Slope WQ Monitoring	PRJ100455/SW-A1-39	Completed in 2023
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Other Changes	CIP Number	Comments
Mill Creek at Evergreen Highway Culvert Replacement	PRJ083663/SW-A1-37	Changed name to reflect project more accurately. Move from Sub-Standard Systems to Regulatory Compliance.
McGillivray Blvd System Rehabilitation	SW-56	Changed name to reflect project more accurately
Evergreen Highway Culverts Assessment	SW-54	Changed name to reflect project more accurately

Note: “Completed” indicates already completed as of the date of this document or anticipated completion prior to January 1, 2024.

6 YEAR CAPITAL IMPROVEMENT PROGRAM FOR SURFACE WATER (2024-2029)

All costs are in 2023 dollars
Updated August 2023

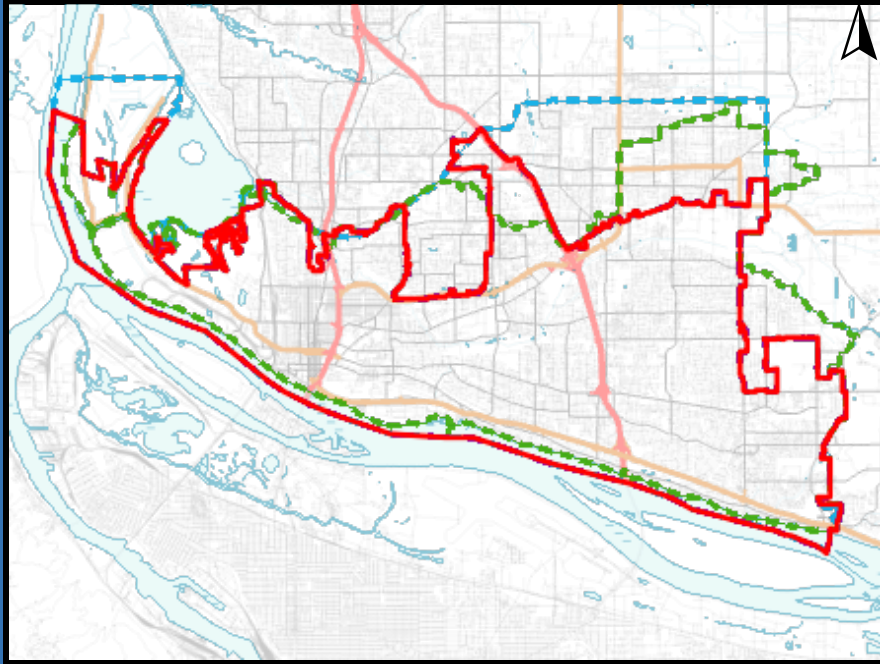
Project Name	Project Number	CIP #	Spent to Date (Start thru 2022)	2023**	2024	2025	2026	2027	2028	2029	6 Year Total
FUNDED PROJECTS:											
Regulatory Compliance Projects - NPDES/TMDL											
Surface Water Manual Re-evaluation and Assessment	PRJ100276	SW-80					150,000				150,000
Blondford Drive Subbasins LID Retrofits - Grant	PRJ100275	SW-47	293,553	289,500	2,678,495						2,678,495
15th Ave East Greenway Restoration	TBD	SW-A1-34						100,000			100,000
Regulatory Compliance Projects - UIC Retrofits											
Central Fourth Plain - Grant	PRJ083633	SW-62	119,141	190,570	2,000,000		250,000	200,000		500,000	950,000
NE Fourth Plain (123rd-131st South) Water Quality Retrofits - Grant	PRJ100273	SW-45	203,733	929,045	300,000						300,000
East Orchards Fourth Plain Water Quality Retrofits - Grant	PRJ100274	SW-45	322,692	706,500	235,500						235,500
Columbia Way to Columbia River Retrofits - Grant	PRJ100384	SW-65	10,106	245,000	40,000	1,746,821					1,786,821
E Mill Plain UIC Treatment	PRJ100450	SW-63	55,736	429,360	1,287,000						1,287,000
Heathwood Infiltration Expansion	PRJ100487	SW-50	1,864	100,000	200,000						200,000
SE 18th Cir. & SE 113th Ave Storm Sewer Upgrade	PRJ100489	SW-52				50,000					50,000
Evergreen Highway Culverts Assessment	TBD	SW-54				200,000	250,000	200,000	1,000,000	1,000,000	2,650,000
McGillivray Blvd System Rehabilitation	TBD	SW-56						250,000			250,000
Fruit Valley Neighborhood Storm Retrofit - Grant	PRJ100642	SW-58	57,421	150,000		3,500,000					3,500,000
East Mill Plain CTC Basin Study	PRJ100643	SW-59	153,110	400,000		400,000					400,000
N 38th St and F St	TBD	SW-60						150,000			150,000
Arterial Safety Projects											
164th Ave Median Swale Retrofit	TBD	SW-A1-24				150,000	250,000	650,000			1,050,000
Mill Plain at Heathwood & Olympia	TBD	SW-A1-24							500,000		500,000
Mill Plain & 164th Ave	TBD	SW-A1-24								750,000	750,000
27th & P St	TBD	SW-55				150,000					150,000
North Image & NE 129th Ave	TBD	SW-57				20,000	125,000				145,000
Facility Retrofits Program											
Varies	Varies	SW-A1-36				150,000		500,000		500,000	1,150,000
Primrose Court DS#105	PRJ083655	SW-A1-36		28,000	150,000	250,000					400,000
Image Infiltration Expansion	PRJ100488	SW-51	226			75,000	150,000				225,000
Property Acquisitions - Flood Plain, Habitat, Wetlands											
Property Acquisitions Grants	TBD	SW-A1-20				500,000	500,000	500,000	500,000	500,000	2,500,000
Property Acquisitions Grants	TBD	SW-A1-20			500,000						500,000
Burnt Bridge Creek Land Acquisitions - Phase 2	PRJ100781	SW-A1-20		250,000	250,000						250,000
Coordination Projects (SCIP/Trans)											
TBD	TBD	SW-A1-21				250,000		250,000		250,000	750,000
Sub-Standard Systems											
Columbia Slope Culvert - Chelsea Culvert	PRJ083664	SW-A1-37			5,000						5,000
Mill Creek at Evergreen Highway Culvert Replacement	PRJ083663	SW-A1-37	125,182	145,000		500,000	3,000,000				3,500,000
Peterson Channel Basin Assessment and Rehabilitation (NE 112th & 39th)	TBD	SW-1068				100,000	250,000	500,000	1,500,000		2,350,000
Lincoln Outfall Basin Retrofit - W Fourth Plain	TBD	SW-1070					200,000	100,000	100,000		400,000
WSDOT Fee Projects											
WSDOT Fees - 2020	PRJ100449	SW-A1-5	83,303	253,040	412,120	498,733	523,670	549,853	577,345	606,213	3,167,934
SR500 West of St Johns and North of V Street	PRJ100879	SW-A1-5			30,000						30,000
SR500 and 1205 Clover - Southwest Quadrant	PRJ100880	SW-A1-5			125,000						125,000
Water Quality Monitoring for Washington State Department of Transportation Highway Impact	PRJ100905	SW-A1-5		25,000	75,000						75,000
Peterson Channel Study and Design for WSDOT Highway Runoff Impacts	PRJ100928	SW-A1-5		11,000	89,000						89,000
SE Rivercrest Dr & SR-14 Study & Design	TBD	SW-A1-5			100,000						100,000
WSDOT Contributing Area Delineation	TBD	SW-A1-5			252,366						252,366
Columbia Slope & SR-14 Study and Design	TBD	SW-A1-5			165,366						165,366
Watershed Planning											
Burnt Bridge Creek - Legacy Vaults Assessment & Water Quality Evaluation	TBD	SW-A1-39				150,000	200,000	2,000,000	1,000,000	1,000,000	4,350,000
NPDES/TMDL Watershed Health & Water Quality Monitoring	PRJ100272	SW-A1-39	383,531	175,000	180,000	235,000	235,000	245,000	250,000	265,000	1,410,000
Columbia Slope WQ Monitoring Ph 2	PRJ100782	SW-A1-39	36,521	200,000	129,150						129,150
Pollution Prevention Assistance Partnership w/Ecology	PRJ100962	SW-A1-39		75,000	75,000						75,000
Columbia Slope Retrofit Evaluation Study	PRJ100448	SW-61	288,664	289,000	132,000						132,000
Waste Incentive Network	PRJ100783	SW-113	651	200,000	145,000						145,000
Heights District Redevelopment	PRJ100715	SW-124			376,880						376,880
Capacity Grant	TBD	SW-A1-42		130,000		50,000		50,000			100,000
Stormwater Demand Response (Operation Coordination Substandard Systems & PIT Cases)											
Stormwater Demand Response	PRJ100221	SW-A1-12	373			50,000	125,000	200,000	200,000	200,000	775,000
Kiggins Bowl	TBD	SW-A1-12						100,000	200,000		300,000
Cimarron Basin Study and Infiltration Expansion	TBD	SW-A1-12				150,000	300,000				450,000
164th Ave Median Swale Retrofit	TBD	SW-A1-12					100,000	100,000			200,000
SE Evergreen Hwy & 5th Ave C-Tran	TBD	SW-A1-12					100,000	100,000			200,000
Metallic Storm Main CCTV Investigation	TBD	SW-A1-12					250,000				250,000
Non Metallic Storm Main CCTV Investigation	TBD	SW-A1-12							250,000		250,000
Failed Storm Main Lining & Repair - Ph 1	TBD	SW-A1-12							150,000	750,000	900,000
East Mill Plain Infiltration Basin Study	TBD	SW-A1-12								250,000	250,000
Hiddenbrook & 36th Circle Swale Replacement	TBD	SW-A1-12				175,000					175,000
Substandard Swale/LID Retrofits	TBD	SW-A1-12						200,000		750,000	950,000
NE 3rd St Infiltration Expansion	TBD	SW-A1-12					125,000	125,000			250,000
Fairway Drive Infiltration Expansion	TBD	SW-A1-12						75,000	150,000		225,000
Todd Rd Study and Infiltration Expansion	TBD	SW-A1-12							50,000	175,000	225,000
Old City Cemetery Storm Conveyance Expansion	TBD	SW-A1-12				250,000					250,000
W 22nd St & Thompson - Grant	PRJ100190	SW-64	60,704	329,000	2,305,000						2,305,000
Burton Basin Study (Olak 2021)											
NE 98 th Ave, NE 10 th St to NE 16 th St & NE 16 th St to NE 102 nd Ave	TBD	SW-1058					1,161,955				1,161,955
NE Cranbrook Dr, NE Burton Rd to NE 21 st St	TBD	SW-1058							644,700		644,700
Columbia Slope Study (Herrera 2022)											
TBD	TBD	SW-1059						1,500,000	750,000		2,250,000
BBC WQ Study TMDL/SMAP Projects (Currently Identified, In House Ongoing)											
TBD	TBD	SW-1060						1,750,000	1,750,000	1,750,000	5,250,000
NEW PROJECTS											
Ecology SFAP Grants \$5 million/year max	TBD	SW-1069				5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	25,000,000
Surface Water Total				5,550,015	12,237,877	14,600,554	13,245,623	15,394,853	14,572,043	14,246,213	84,297,167

*Project timing is dependent upon the timing of the overriding project (e.g. TIP projects).
 **2023 Amounts include revised delivery amount or actual spent in 2023 (as of August), whichever is higher
 Shading indicates not included in 6-year plan, but money expected to be spent in 2023

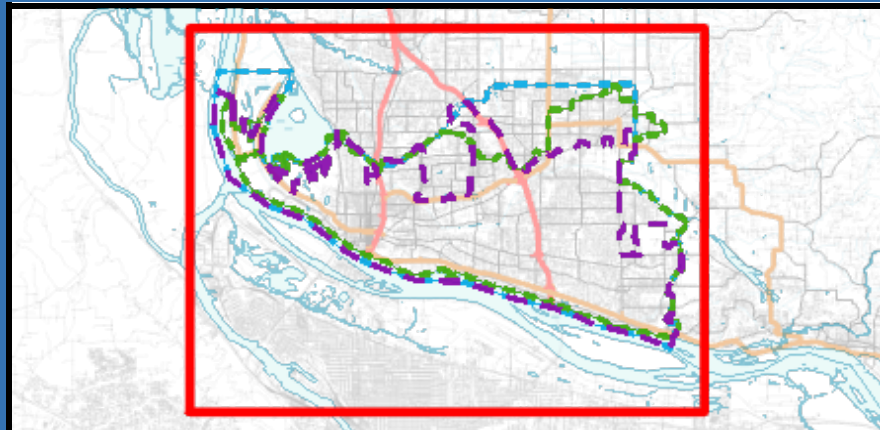
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: WSDOT Fee Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	State Fee Projects
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Projects are for surface water from Washington State right-of-way.

Project Justification

4 – Replace/preserve/rehabilitate: Annual fee project for Washington State Department of Transportation. Projects include piping and drainage ways, water quality, and property acquisition. Project cost estimated at \$528,000 per year. State code provides imposition of charges with respect to surface water from state highway right of ways.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$528,000.00

***Start of Const. (Year)** Ongoing, Cost per year

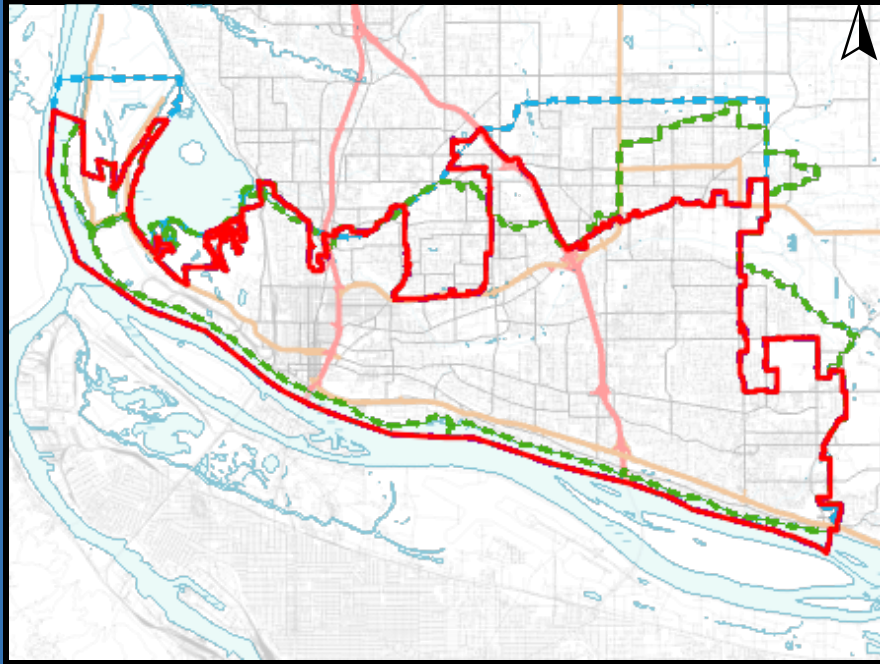
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**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

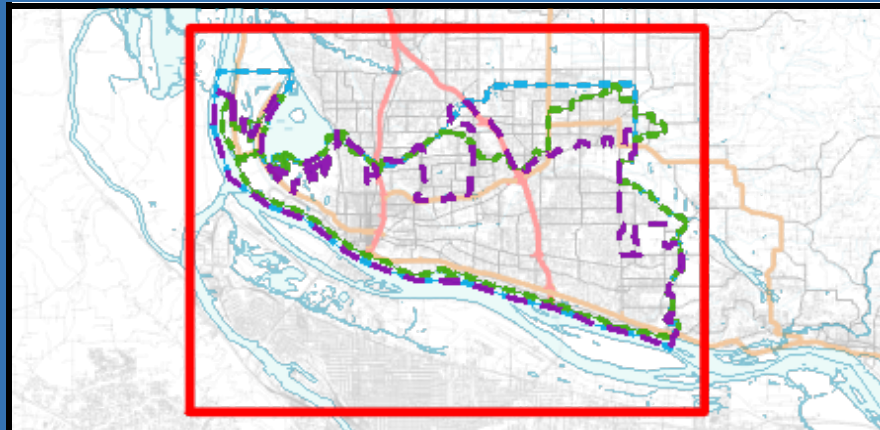
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Underground Injection Control Retrofits

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Program to retrofit our existing underground injection control system, as required by new state NPDES permit regulations.

Project Justification

1 - Regulatory Compliance, 2 - Improve safety and (4) Replace/preserve/rehabilitate: State regulations require new and existing UICs (i.e., stormwater infiltration systems) meet specific requirements to protect groundwater quality. Retrofit projects include reconstructing systems, raising systems, adding water quality treatment, replacing systems to detain, treat and discharge to surface water. Projects include Fourth Plain-SR500 to 131st Ave (#TBD - Sched. For 2023), Fourth Plain-131st Ave to 162nd Ave (#TBD-Sched. For 2024), UIC Retrofits Ph 1-3 (Ph1 #TBD-Sched. In 2023, Ph.2 #TBD sched in 2025).

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$950,000.00

***Start of Const.:** Ongoing
(Year)

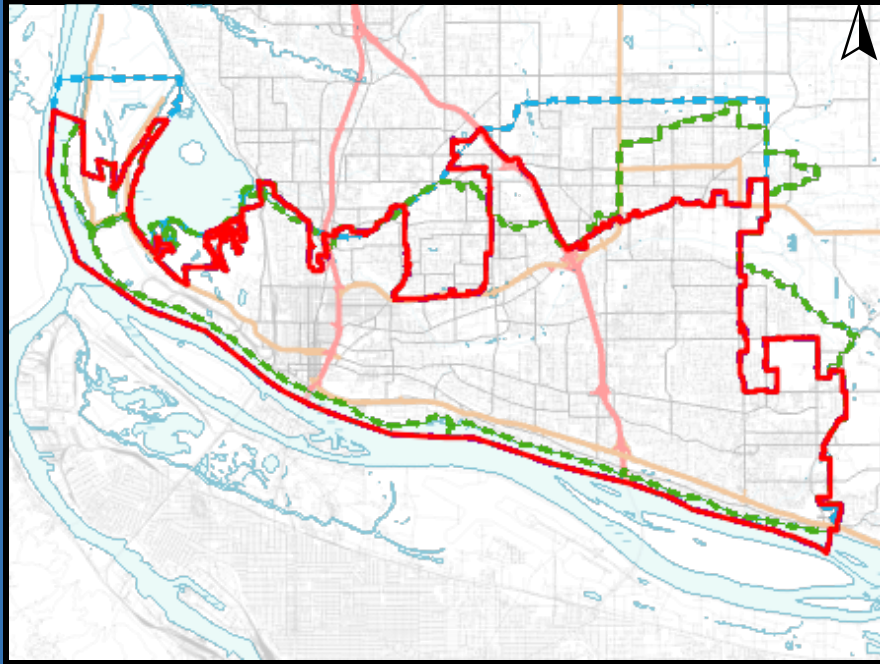
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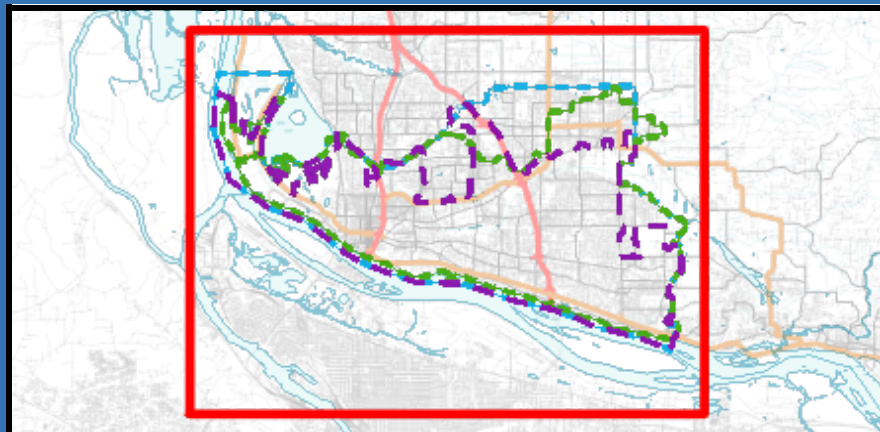
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Stormwater Demand Response

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Emergency or Critical Demand
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Ongoing fund for unanticipated projects, both within Public Works and other departments.

Project Justification

1 - Regulatory compliance, 2 - Improve safety and 4 - Replace/preserve/rehabilitate: Coordination Projects budgeted in the 443 Surface water Construction Fund. Projects may include Roadway Coordination, Traffic Hazard/Property Threatening High Water, Slope Stability/Erosion Prevention, Tree Plantings, NPDES Permitting, and Surface Water Monitoring for Quality and Quantity.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$14,800,000.00

***Start of Const.:** Ongoing (Year)

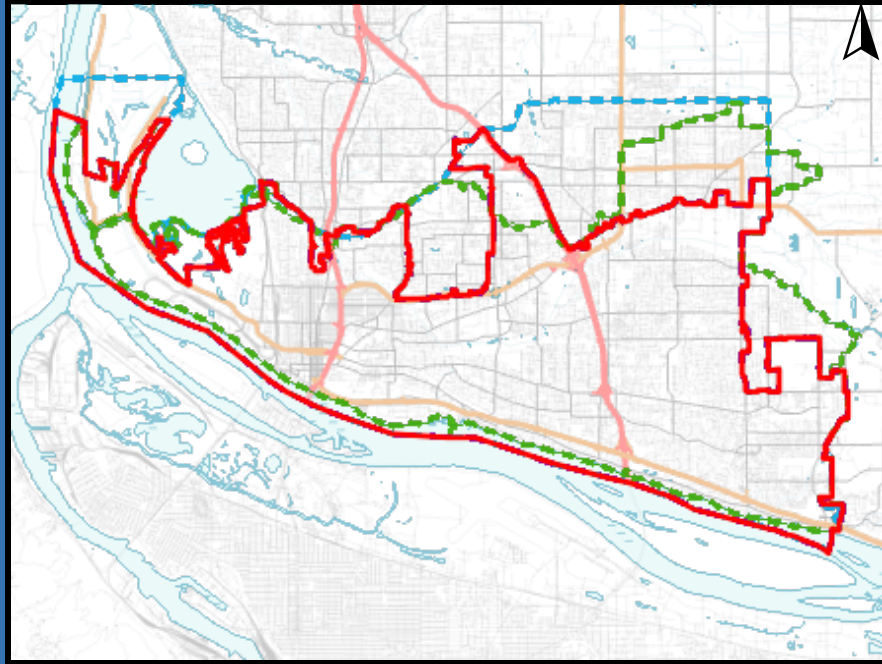
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Property Acquisitions - Floodplain, Habitat & Wetlands**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Acquisition
Project Status:	Future

PROJECT DESCRIPTION

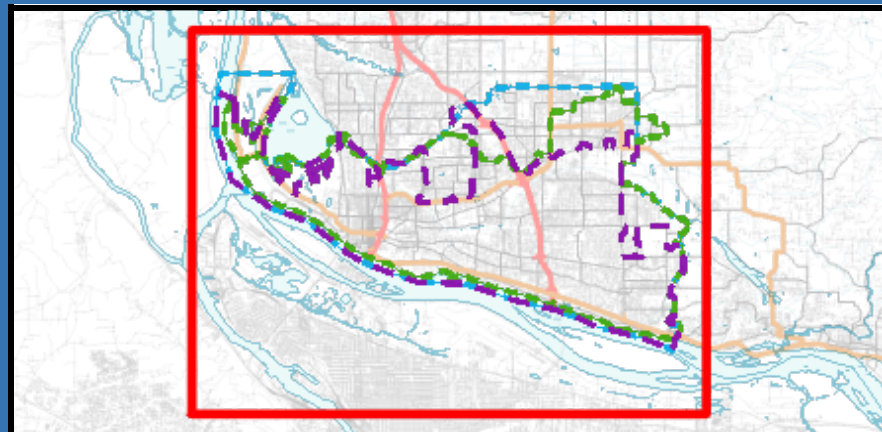
Project Description

Acquisition of flood plain and habitat properties, as identified in the property acquisition priority area plan and as properties become available.

Project Justification

4 – Replace/preserve/rehabilitate: Property Acquisitions -(PRJ100781)- budgeted for \$500K. Future acquisitions being considered are in Alki basin and BBC Greenway.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$4,000,000.00

***Start of Const.:** 2024
(Year)

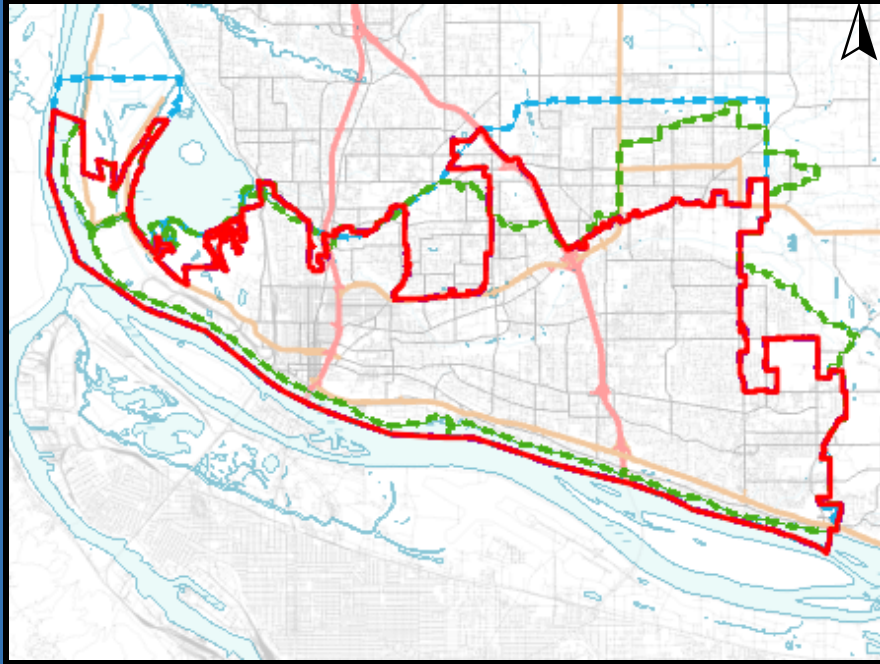
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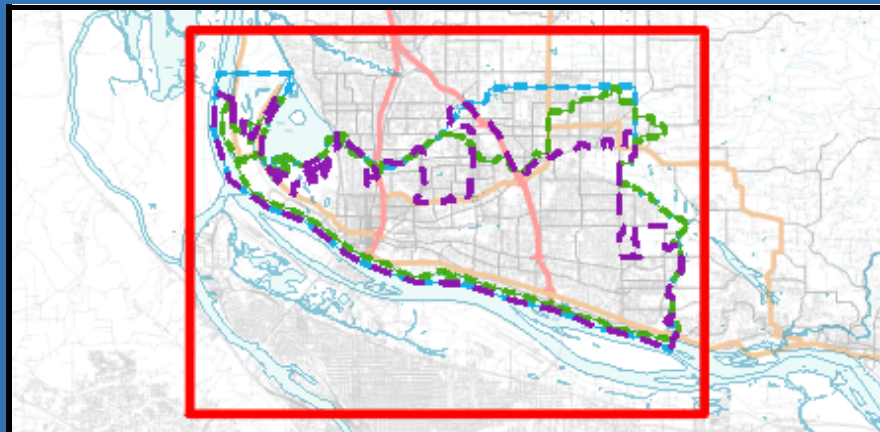
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Coordination Projects (SCIP/Trans)**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Surface Water Coordination Projects constructed as part of the City Sewer Septic Connection Incentive Program (SCIP) or with City Transportation Pavement Management projects.

Project Justification

4 – Replace/preserve/rehabilitate: Upgrade and standardize quantity and quality surface water treatment facilities within the project limits of the associated SCIP/Transportation project.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$2,950,000.00

***Start of Const.:** Ongoing
(Year)

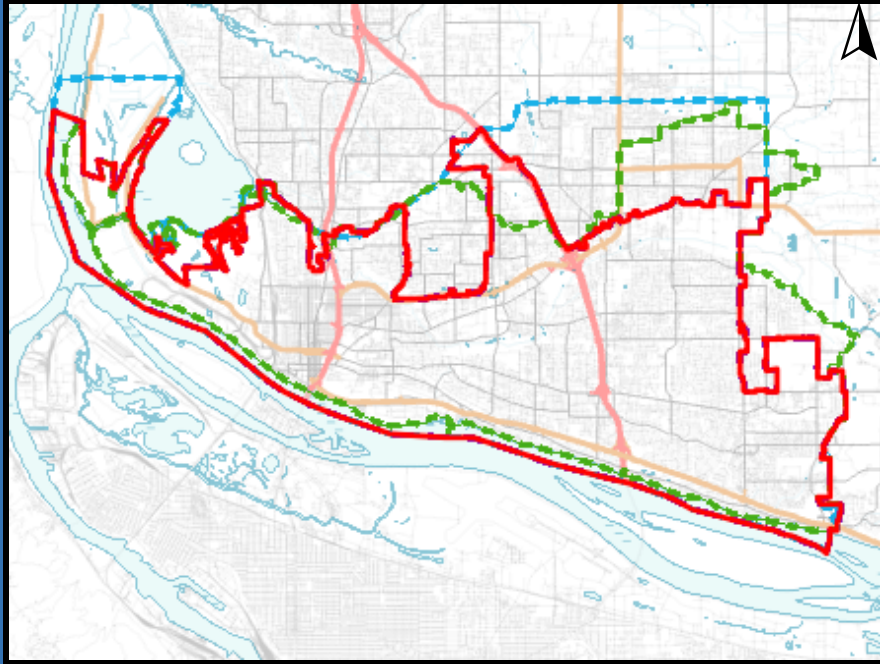
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**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

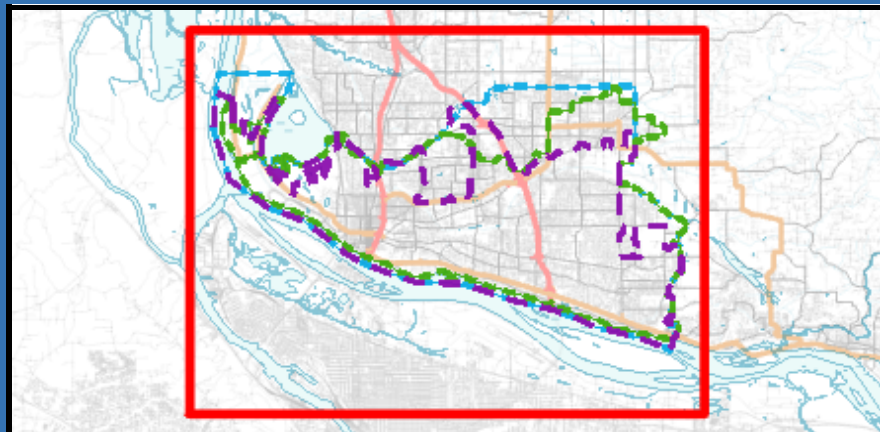
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Arterial Safety Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Ongoing program to address multiple flooding & safety issues in arterial streets, throughout the city: 2025/26 biennium projects - Mill Plain & SE 164th Ave, Mill Plain & Hearthwood, SE 164th Ave Median Swale Retrofit.

Project Justification

Ongoing program funding to address recurring traffic safety concerns due to chronic flooding along arterial streets.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$4,800,000.00

***Start of Const.:** 2025
(Year)

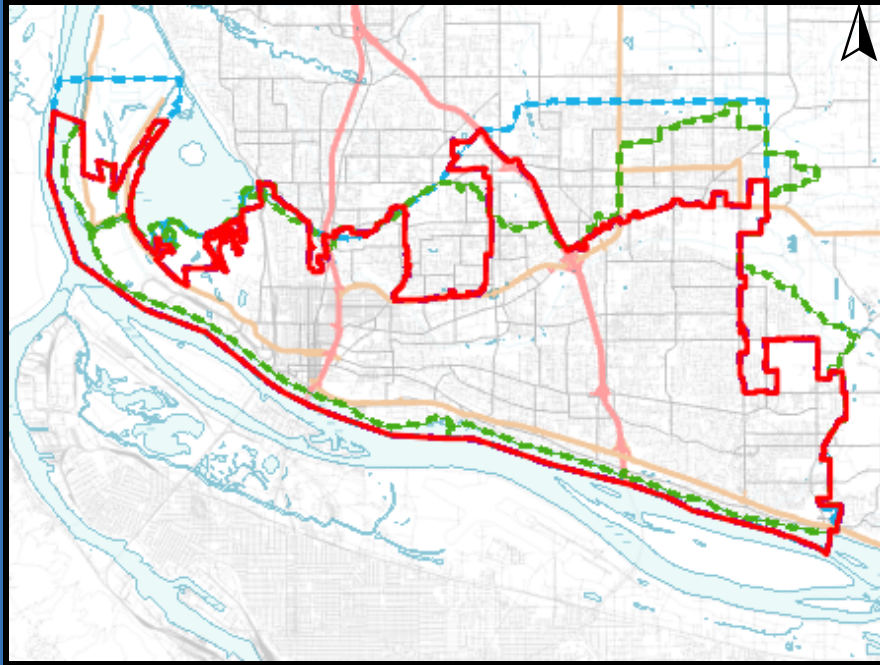
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

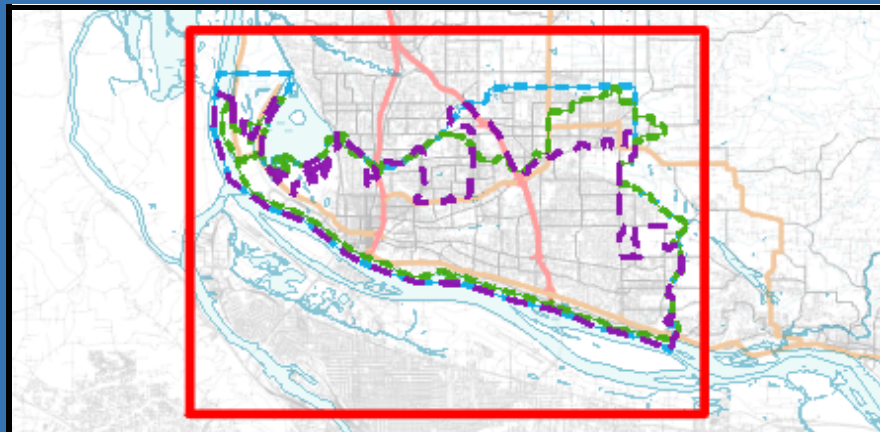
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Greenway Restoration Projects

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Budgeted in the 443 Surfacewater Construction Fund: The current list of specific projects includes: NE 15th Avenue at a horseshoe bend in Burnt Bridge Creek and Arnold Park (vicinity of NE 15th Ave) at St. Johns.

Project Justification

The primary goals for the Burnt Bridge Creek Greenway are to; improve water quality, enhance fish & wildlife habitat, control flooding, treat stormwater runoff, increase tree canopy.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$100,000.00

***Start of Const.:** 2027
(Year)

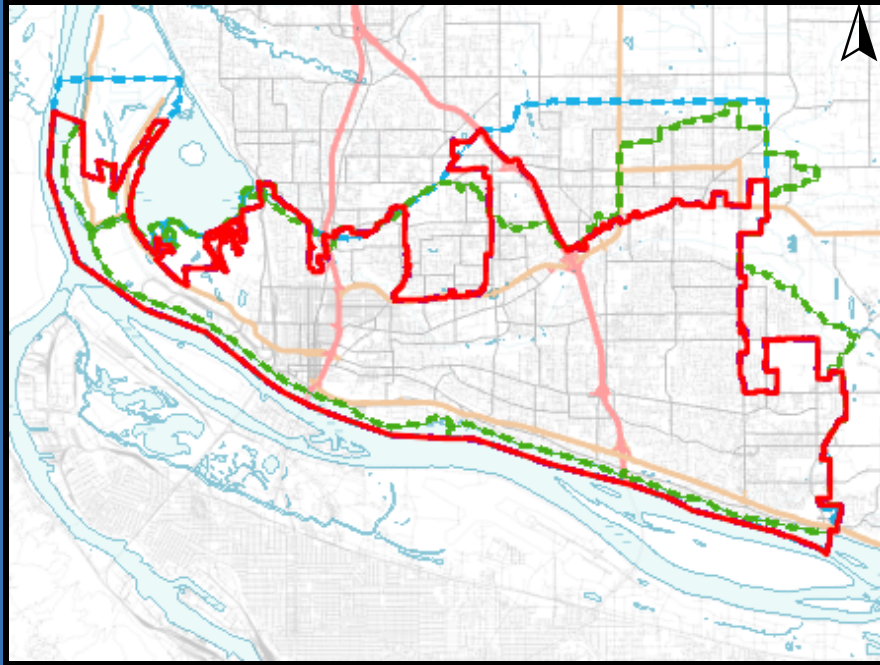
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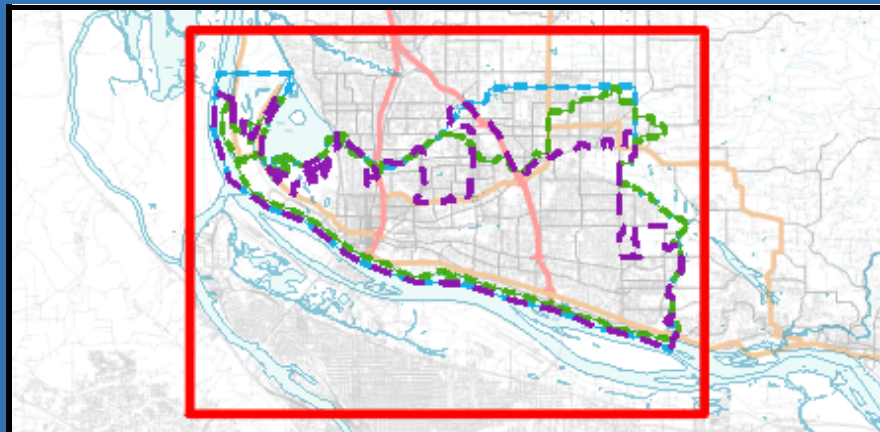
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Facility Retrofit Program

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This Surface Water management program identifies substandard facilities, and retrofits swales to meet current water quality standards.

Project Justification

4 – Replace/preserve/rehabilitate and 5 – Lower operating costs: Budgeted in the 443 Surface water Construction Fund - This program will retrofit swales providing new facilities that meet the city's current standards for water quality and maintenance. Assessment of the city's facility assets resulted in a priority list of swales requiring retrofits. Current projects are 2025/26 biennium: Primrose Court and Image.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$3,330,000.00

***Start of Const.:** Ongoing
(Year)

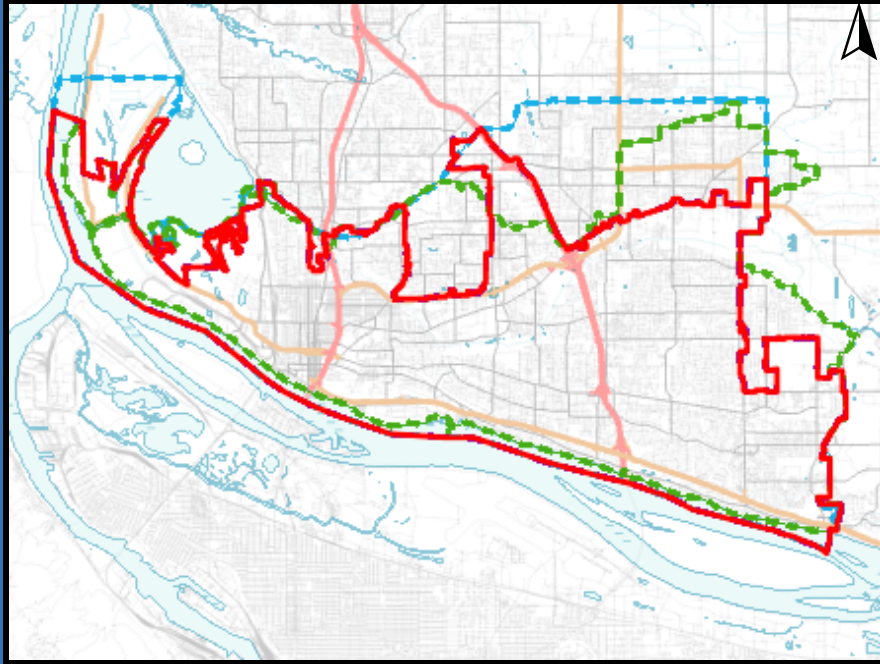
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**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

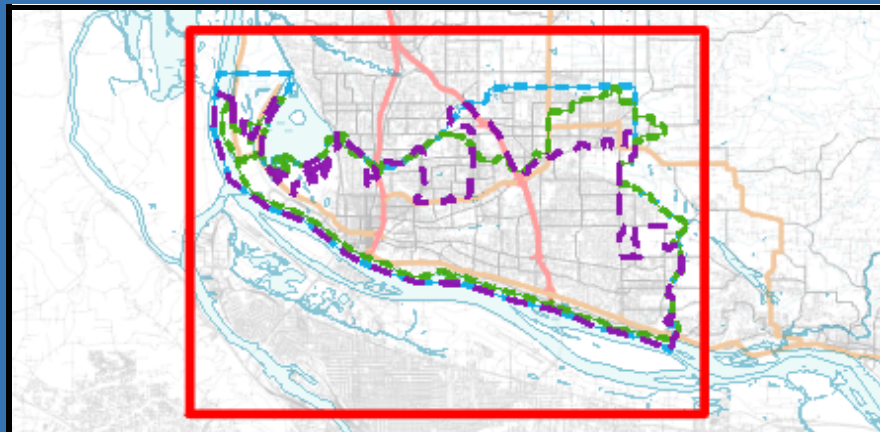
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Substandard Systems Program

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This Surface Water management program identifies and retrofits or replaces sub-standard stormwater systems.

Project Justification

4 – Replace/preserve/rehabilitate: Budgeted in the 443 Surface water Construction Fund: This program is for culverts and pipes that have reached the end of their life cycle in need of repair or drywells that continue to overflow even with repeated maintenance and cleaning. Projects are prioritized based upon severity criteria such as traffic safety, potential property damage, nuisance flooding, etc. Current projects include Peterson Channel Basin Assessment and Lincoln Outfall Basin.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded:

Total Project Cost: \$4,000,000.00

***Start of Const.:** 2025
(Year)

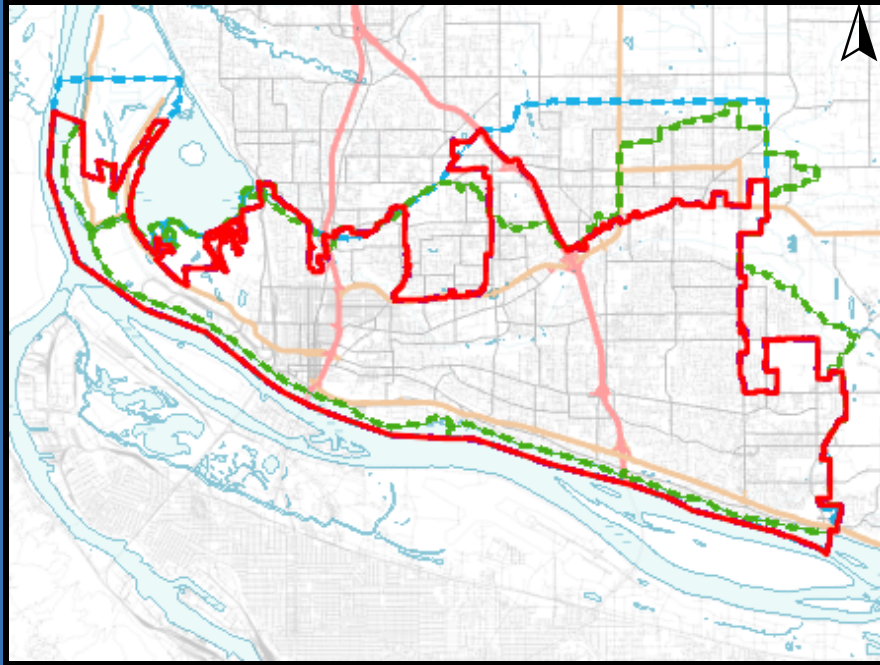
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

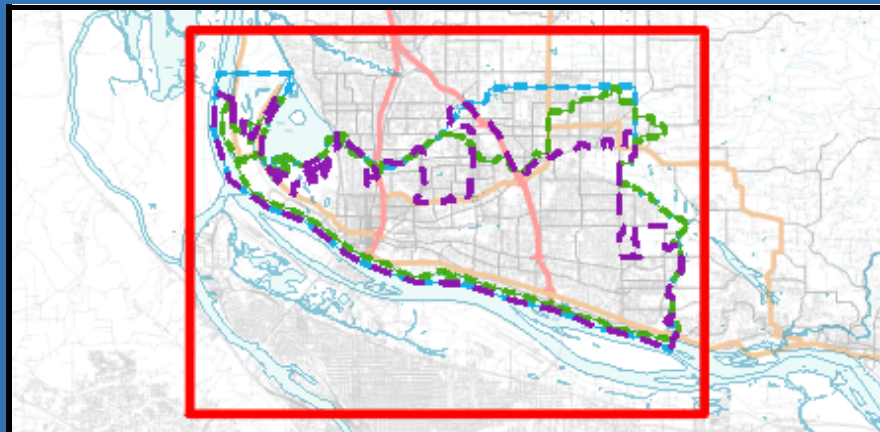
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Watershed Planning

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Watershed Planning is an ongoing program to monitor groundwater and surface water quality to evaluate where water quality improvement projects would provide the greatest benefit to streams and groundwater. The current projects are "NPDES/TMDL Watershed Health and Water Quality Monitoring" (PRJ100272), Columbia Slope WQ Monitoring Ph 2, Columbia Slope Retrofit Evaluation Study, Waste Incentive Network, Pollution Prevention Assistance Partnership.

Project Justification

The Department of Ecology Underground Injection Control (UIC) Rules were implemented in 2007. The city has met these regulations. The next phase requires retrofit of UIC's, otherwise known as drywells, in areas close to groundwater.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded: Yes

Total Project Cost: \$17,000,000.00

***Start of Const.:** Ongoing
(Year)

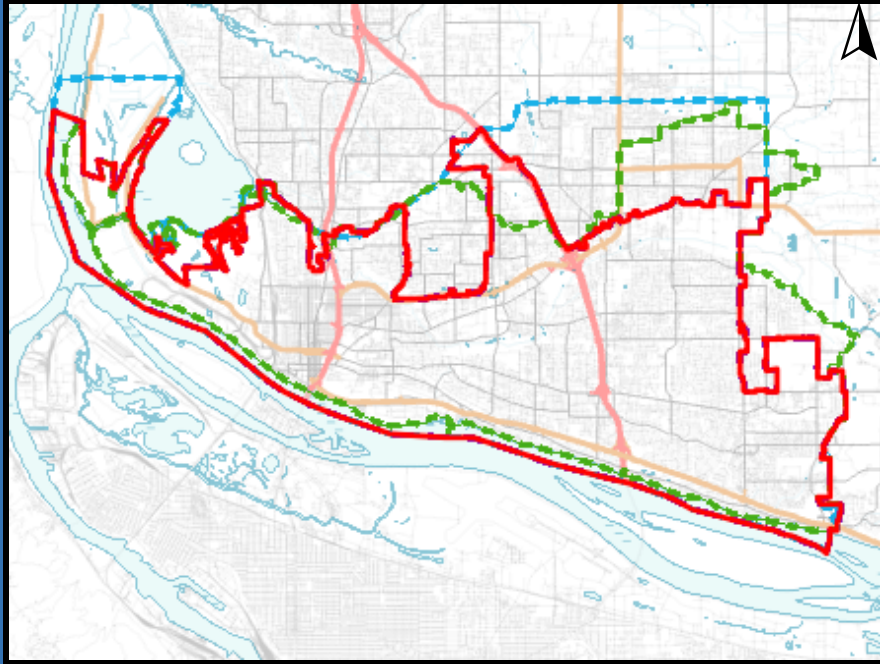
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

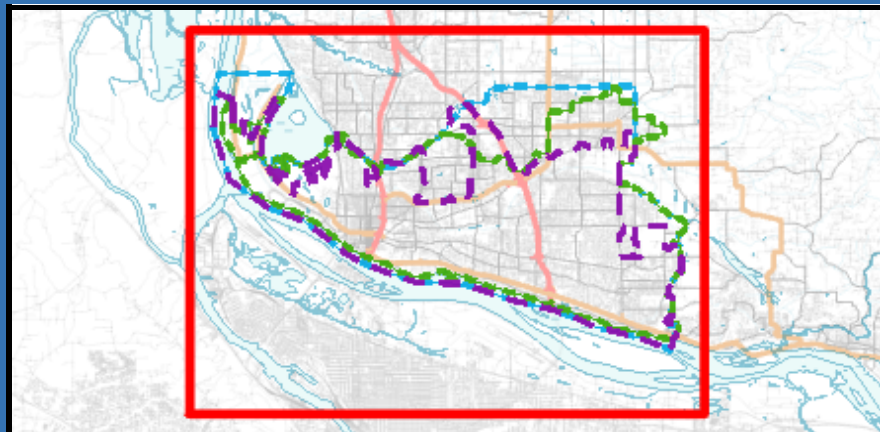
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Capacity Grant**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Stormwater facility capacity system study, to identify and design needed improvements city wide for NPDES compliance. This project is 100% funded by Ecology grant.

Project Justification

1 - Regulatory compliance, 2 - Improve safety and 4 - Replace/preserve/rehabilitate: This project planning and design is 100% funded by an Ecology Grant and will result in stormwater facility improvements and regulatory NPDES compliance. The primary focus for the two-year capacity grant will be to support implementation of the Stormwater NPDES permit.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded: Yes

Total Project Cost: \$50,000.00

***Start of Const. (Year)** Ongoing, Every two years

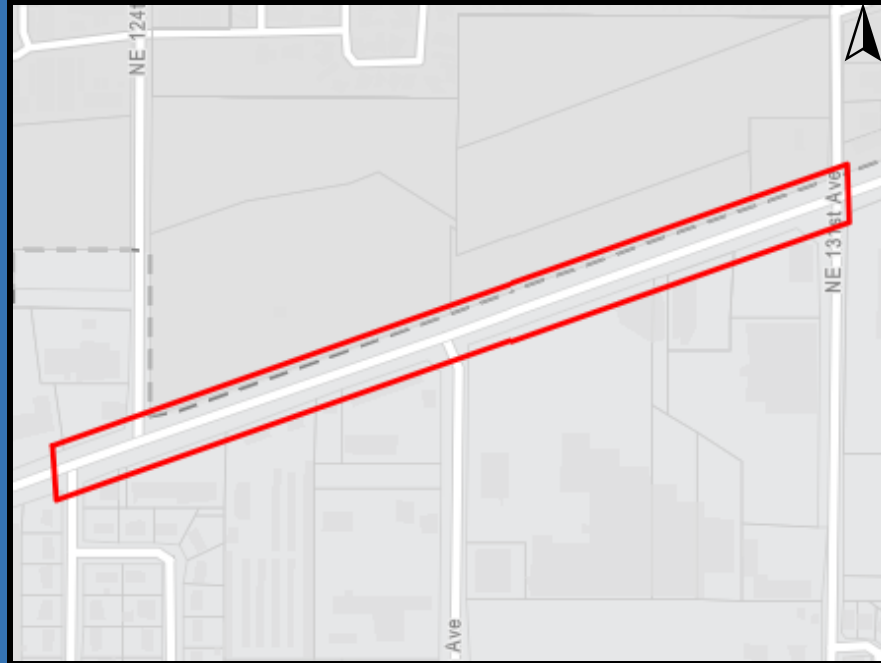
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

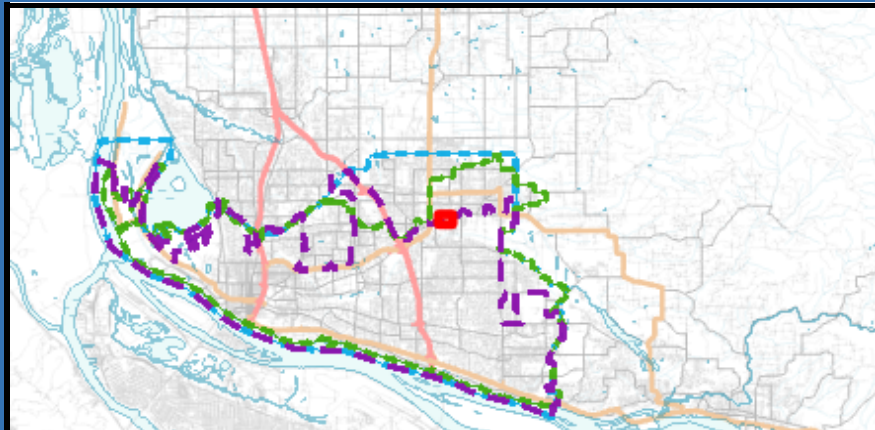
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Water Quality Retrofits - Grant

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Water quality retrofits to improve surface water facilities in the NE 4th Plain corridor between NE 123rd Ave. to NE 131st Ave. and East Orchards Fourth Plain.

Project Justification

4 – Replace/preserve/rehabilitate: North side NE 4th Plain (PRJ100274) -project costs estimated at: \$ 41K Design, \$ 660K Construction; South side (PRJ100273) -NE 4th Plain project costs estimated at \$ 43K design and \$760K construction. Both projects total \$86K for design, and \$1.42M for construction. This is an Ecology grant funded project to retrofit the storm systems along the south half of NE Fourth Plain from 123rd to 131st Avenue. This project will construct 12 bio-retention facilities and Silva Cell storage units along the south half of the street, and 13 bio-retention facilities on the north side. Untreated stormwater runoff from this principal arterial road, infiltrates via drywells impacting surface and groundwater quality as subsurface flow contributes to baseflow in Burnt Bridge Creek and may migrate deeper into the City's drinking water aquifer. A recent planning study of Orchards basin identified this corridor as a top priority for stormwater quality retrofits. This project will reduce total suspended solids, oil & grease and heavy metals which will result in improved water quality.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number Varies

Grant Funded: Yes

Total Project Cost: \$270,000.00

***Start of Const.:** 2023
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

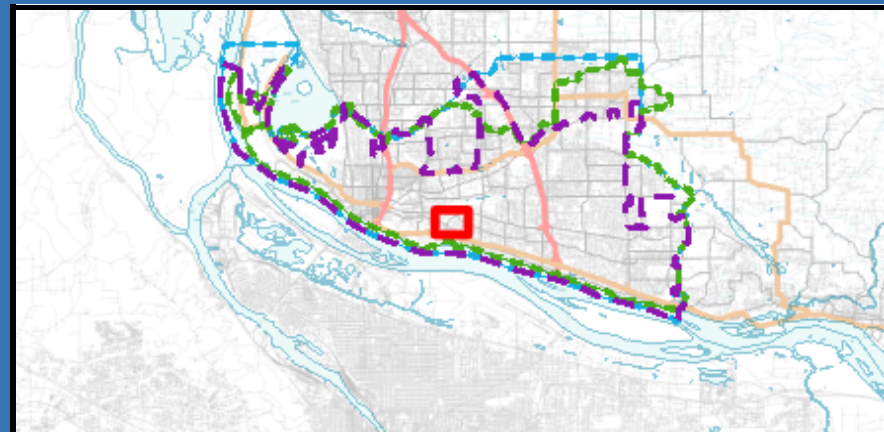
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Blandford Drive Subbasins LID Retrofits

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Water Quality retrofits to improve surface water quality treatment systems in the Blandford Drive Corridor, in the vicinity of Evergreen Blvd.

Project Justification

2 - Improve safety and 4 - Replace/preserve/rehabilitate: The Blandford canyon discharges to a low-lying area along Columbia House Blvd. which is privately owned and adjacent to a city drinking water well and water production facility. The City is responsible for water quality and flow within this the public right of way. The city would like to retrofit the public right-of-way with LID Best Management Practices. This would include disconnecting roadway runoff from the existing storm pipelines and install new collection and conveyance to new treatment and flow control BMP's. The existing outfall would be maintained for emergency overflow. This is an Ecology grant funded (75%) project to retrofit the storm systems in the streets that contribute stormwater runoff to the Blandford Drive basin. The project will use Low Impact Development techniques, specifically bioretention facilities, to provide water quality treatment and infiltration of stormwater. Currently the runoff contributes flow to areas adjacent to the city drinking water well station. This project will provide water quality benefit to the surface water and protect groundwater.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100275

Grant Funded: Yes

Total Project Cost: \$3,260,000.00

***Start of Const.:** 2023
(Year)

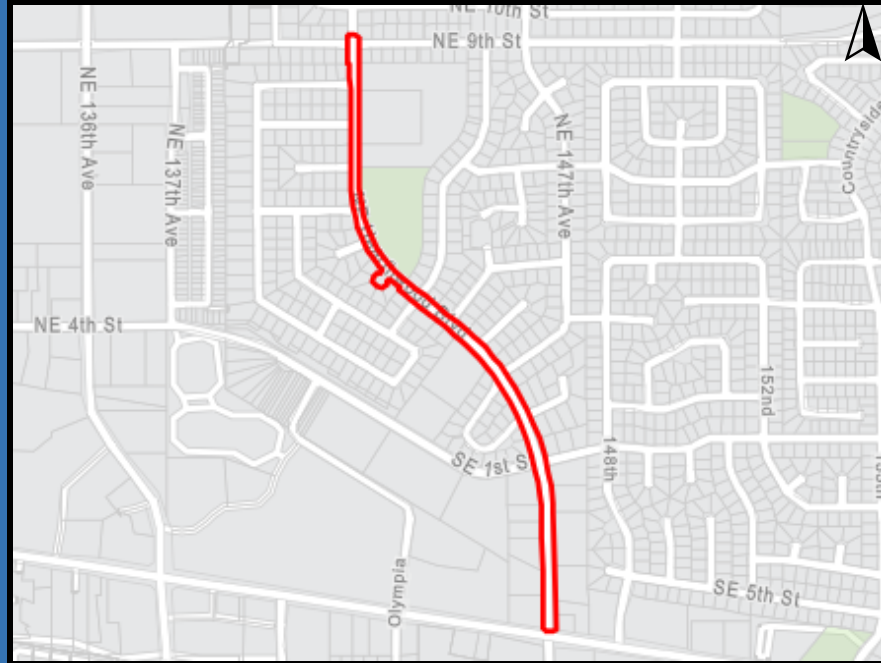
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

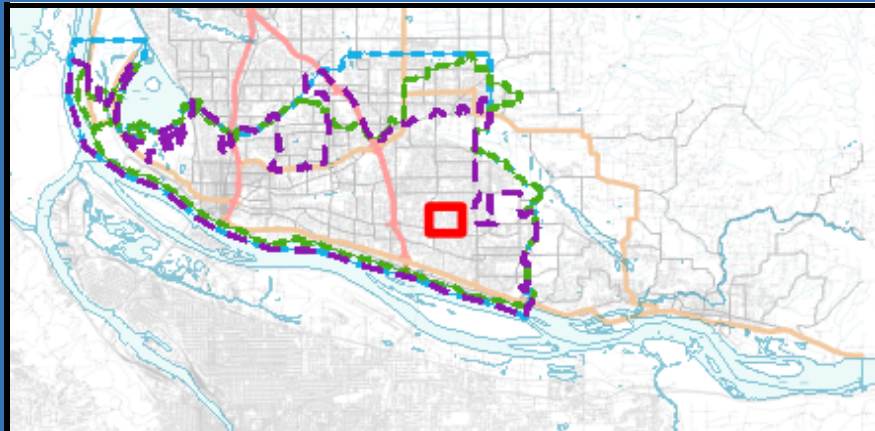
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Hearthwood Infiltration Expansion

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Active

PROJECT DESCRIPTION

Project Description

New Surface Water system retrofits to improve system capacity.

Project Justification

1 - Regulatory compliance: Surface Water CIP Priority #3 of 13 projects. The Heartwood neighborhood has many aging drywells that were designed to infiltrate stormwater runoff from the area streets into the ground. Over the years these systems have been clogged with debris, significantly decreasing their performance. This project will provide system improvements to collect the debris for easier and less frequent Maintenance cleaning. Decreasing the localized flooding in the neighborhood.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100487

Grant Funded:

Total Project Cost: \$300,000.00

***Start of Const.:** 2023
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

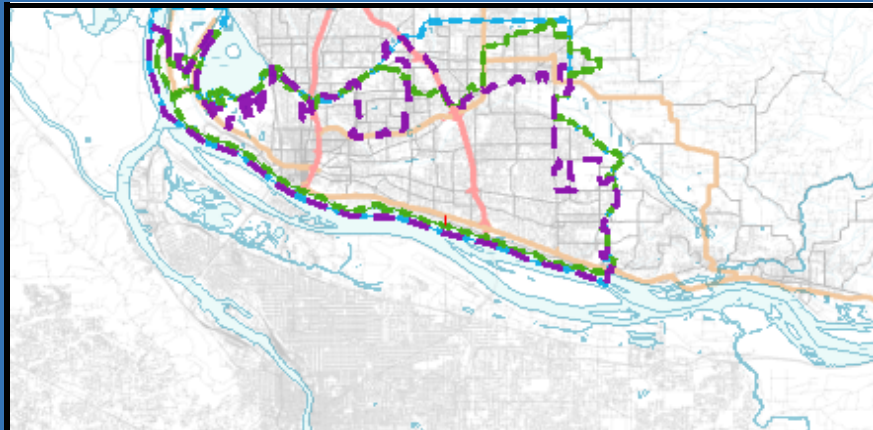
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Image Infiltration Expansion

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Active

PROJECT DESCRIPTION

Project Description

New Surface Water system retrofits to improve system capacity.

Project Justification

3 – New system: This project will expand the substandard system, improving performance to prevent localized flooding.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100488

Grant Funded:

Total Project Cost: \$225,000.00

***Start of Const.:** 2025
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **SE 18th Circle and SE 113th Ave Upgrade**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Future

PROJECT DESCRIPTION

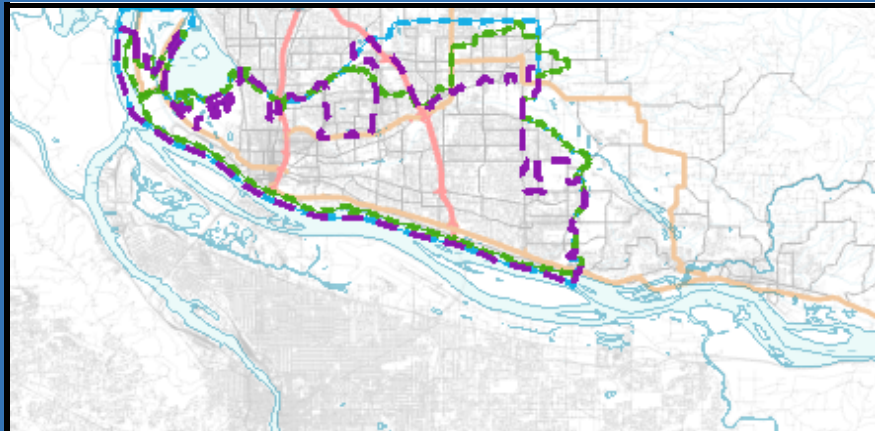
Project Description

New Surface Water system retrofits to improve system capacity.

Project Justification

3 – New system: This project will expand the substandard system, improving performance to prevent localized flooding.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$50,000.00

***Start of Const.:** 2025
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

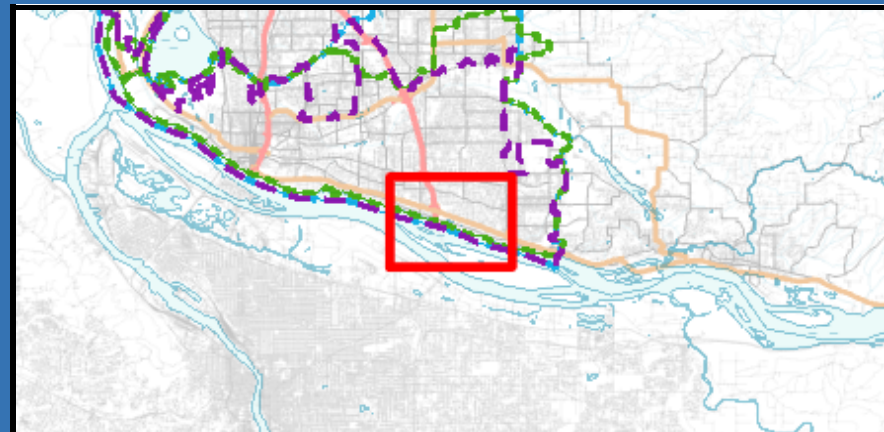
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Evergreen Highway Culverts Replacements

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Future

PROJECT DESCRIPTION





Project Description

New surface water system retrofits to improve system capacity.

Project Justification

4 – Replace/preserve/rehabilitate: This project will assess and prioritize repairs and replacement of culverts under Evergreen Hwy. The majority of these culverts date back to the original construction of Evergreen Hwy.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$3,650,000.00

***Start of Const.:** 2025
(Year)

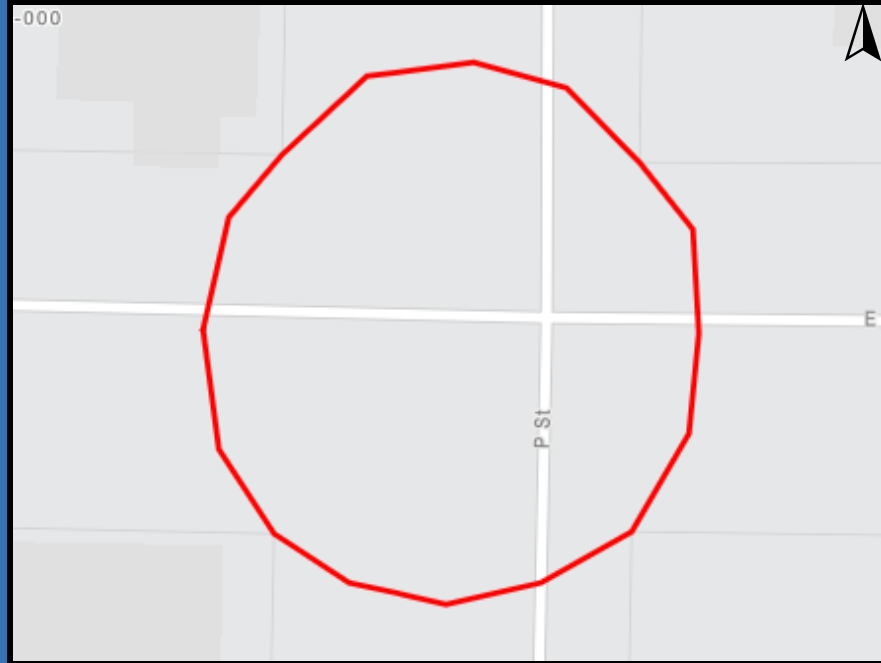
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **27th & P St**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Active

PROJECT DESCRIPTION

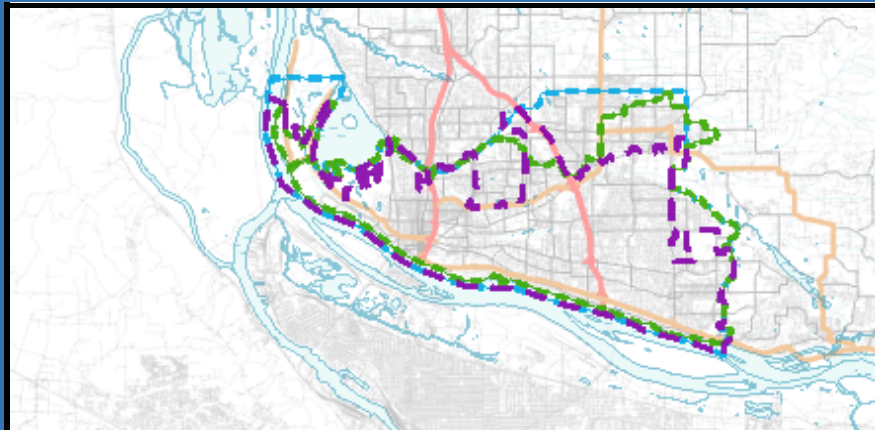
Project Description

New surface water system retrofits to improve system capacity.





Project Justification

1 - Regulatory compliance and 3 - New system: UIC Retrofits; to expand the substandard system to help address the frequent flooding in this intersection.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$150,000.00

***Start of Const.:** 2025
(Year)

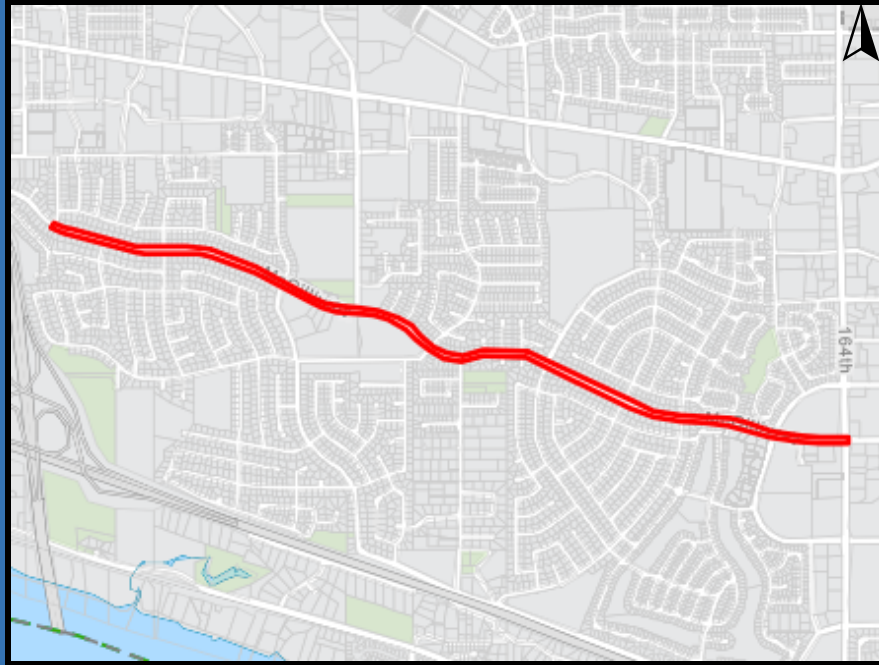
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

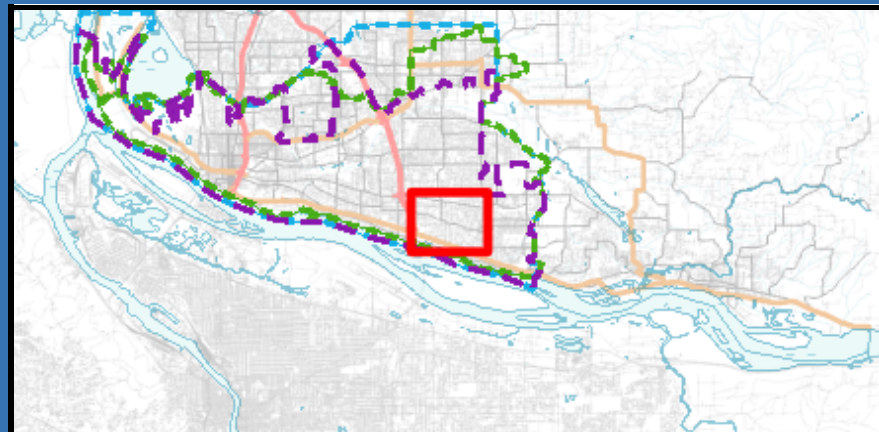
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: McGillivray Blvd System Rehabilitation

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Future

PROJECT DESCRIPTION

Project Description

New surface water system retrofits to improve system capacity.

Project Justification

3 - New system: To expand the substandard system to help address the frequent flooding in this intersection.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$250,000.00

***Start of Const.:** 2027
(Year)

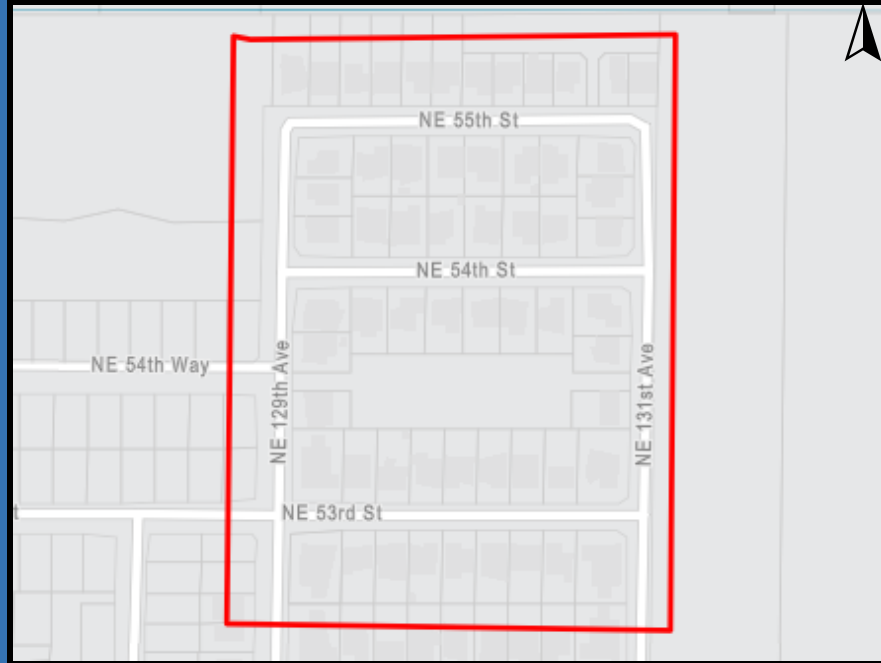
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

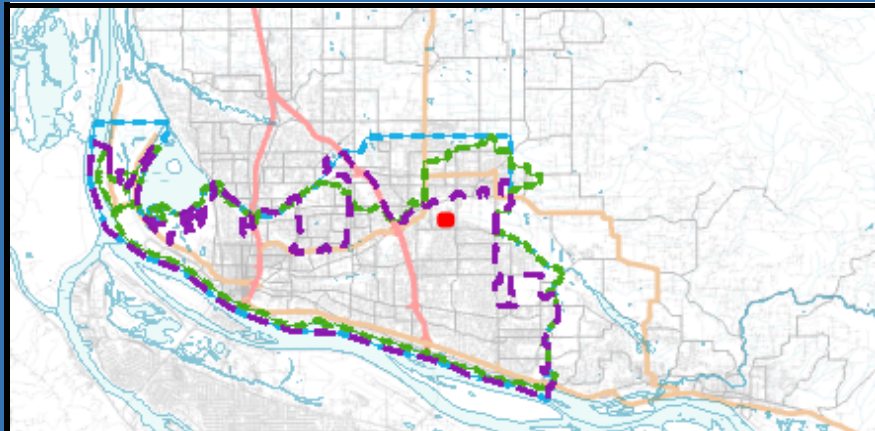
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **North Image - NE 129th Ave.**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Future

PROJECT DESCRIPTION

Project Description

New surface water system retrofits to improve system capacity.

Project Justification

3 - New system: This project will expand the substandard system, improving performance to prevent localized flooding.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$145,000.00

***Start of Const.:** 2026
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

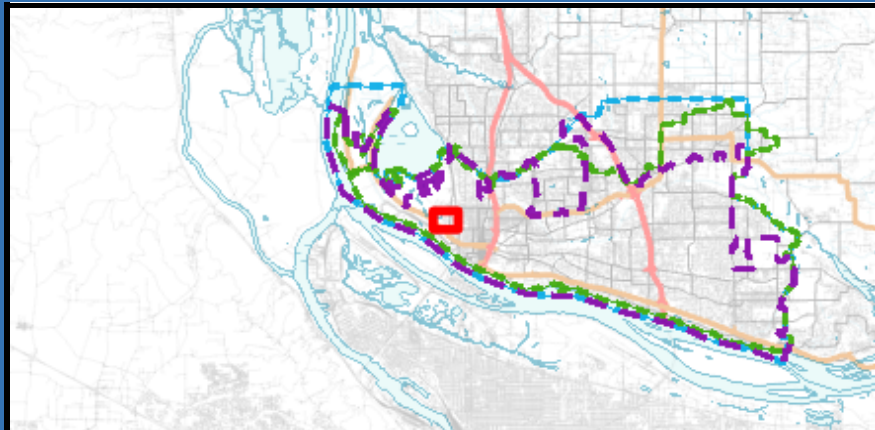
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Fruit Valley Neighborhood Storm Retrofit

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

This is an Ecology grant funded project to fix residential street flooding.

Project Justification

2 – Improve safety and 3 – New system: Many residences experience recurring flooding into their yards. The project will install stormwater treatment and infiltration throughout the neighborhood on residential streets to minimize the street and yard flooding. It will also relieve the amount of stormwater the Fruit Valley stormwater pump station has to pump during large rainstorms.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100642

Grant Funded: Yes

Total Project Cost: \$3,710,000.00

***Start of Const.:** 2025
(Year)

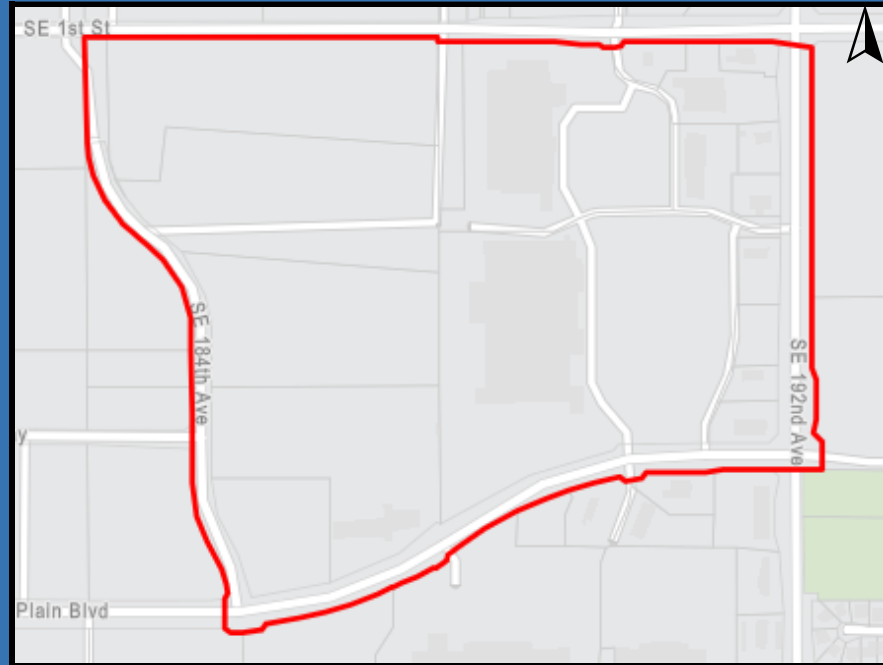
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

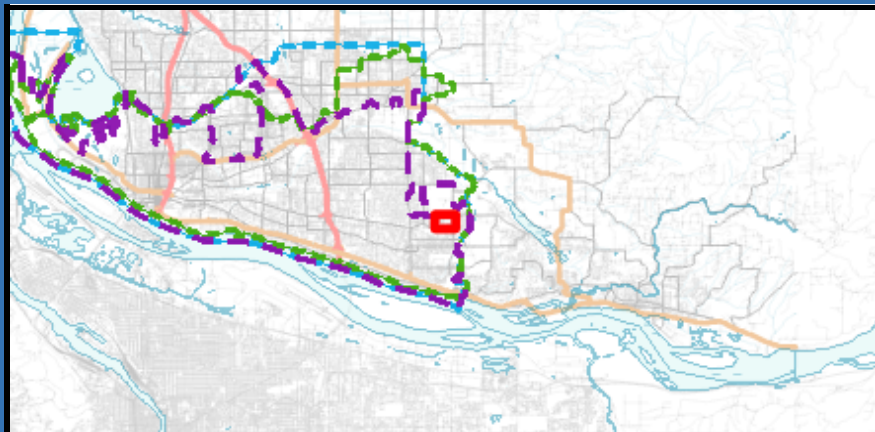
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E Mill Plain CTC Basin Study

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Active

PROJECT DESCRIPTION





Project Description

System basin study to identify alternatives to address localized flooding.

Project Justification

2 – Improve safety: This basin study project is analyzing the area with rainwater flowing off parking lots that drains through pipes to SE 184th Ave and Mill Plain. This area is an isolated low spot that soon after construction by the city began experiencing frequent flooding. There have already been multiple phases of improvements to the stormwater system to help rectify the situation and prevent flooding that is impassable to vehicular traffic during heavy rains. This engineering study will come up with multiple suggested solutions and estimates for addressing the flooding. Surface Water Management Engineers are working in coordination with PacTrust the area Developer. The intent is to have a coordinated improvement, prior to their future developments.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100643

Grant Funded:

Total Project Cost: \$953,000.00

***Start of Const.:** 2023
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **N 38th St and F St**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Emergency or Critical Demand
Project Status:	Future

PROJECT DESCRIPTION

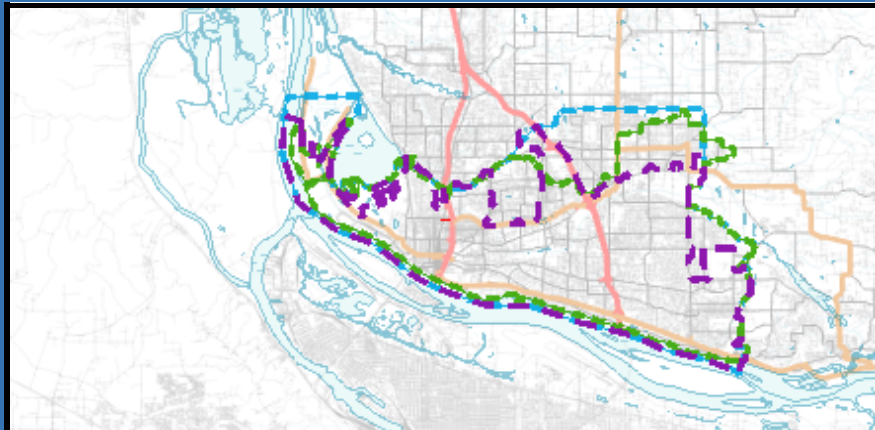
Project Description

Extend the existing conveyance system a block west of the intersection, and north into the alley between F and Main St.

Project Justification

2 – Improve safety and 3 - New system: Extend existing system so there will be new pipe that meets current size standards to convey all of the flow from the alley. This will minimize maintenance and the potential for flooding.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$150,000.00

***Start of Const.:** 2027
(Year)

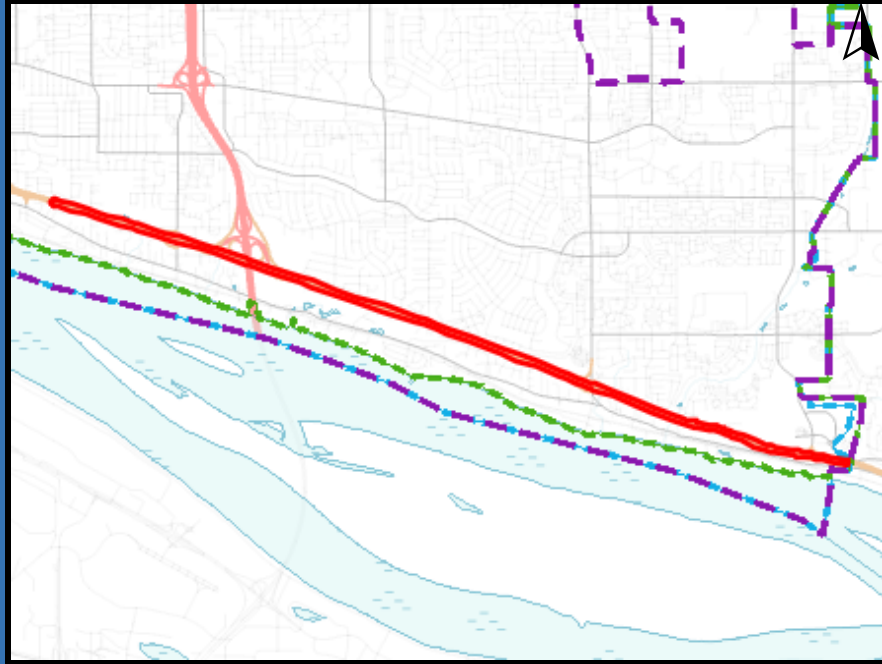
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

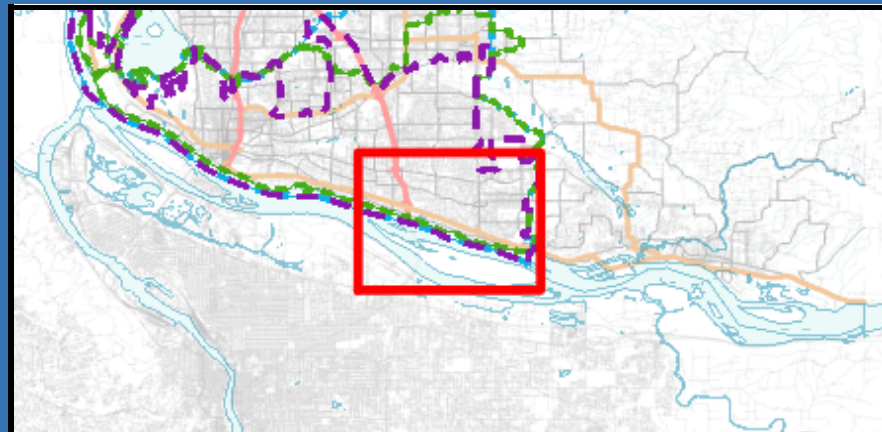
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Columbia Slope Retrofit Evaluation Study**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Ecology grant funded water quality monitoring study at eleven sites within the Columbia basin. City match of \$207,983.00.

Project Justification

1 - Compliance with WDOE regulations, To find surface water impacts to local receiving water quality, and help prioritize needed surface water retrofits.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100448

Grant Funded: Yes

Total Project Cost: \$700,000.00

***Start of Const.:** 2023
(Year)

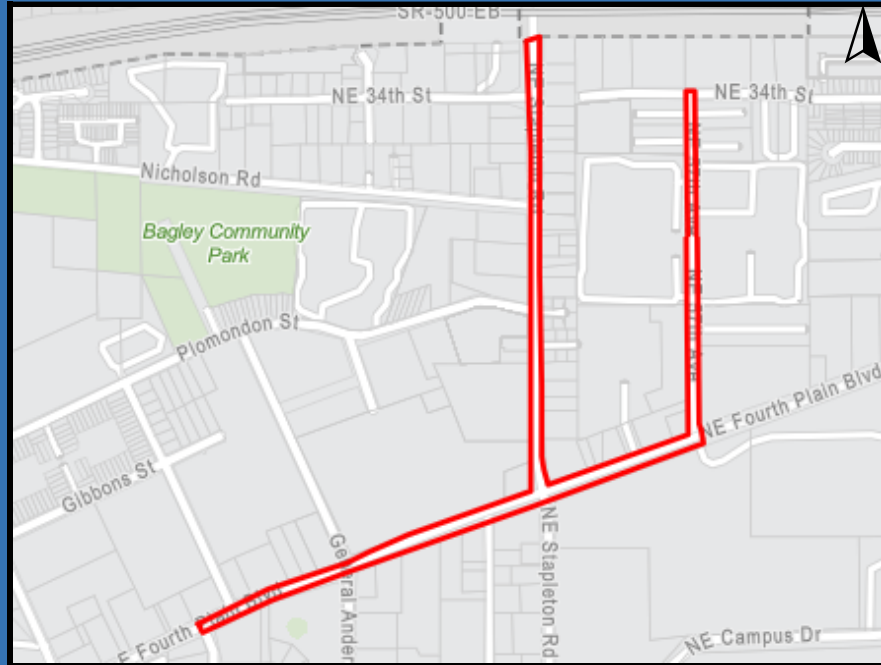
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

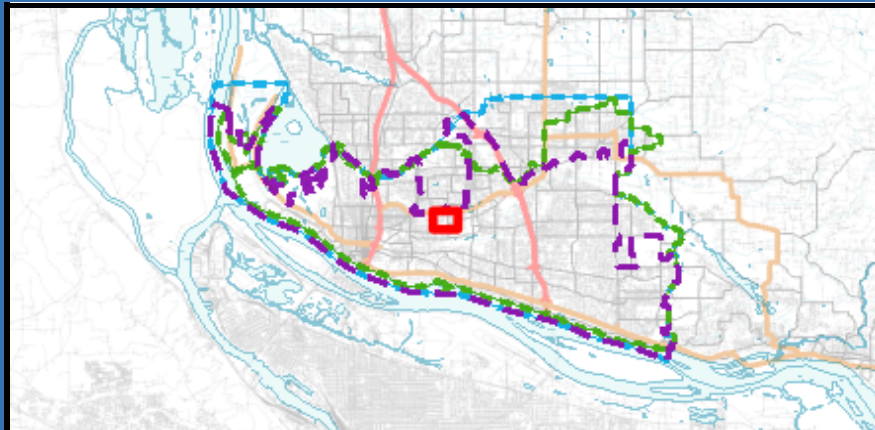
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Central Fourth Plain

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Underground Injection Control retrofits. City match of \$541,250.00.

Project Justification

1 - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ083633

Grant Funded: Yes

Total Project Cost: \$2,310,000.00

***Start of Const.:** 2024
(Year)

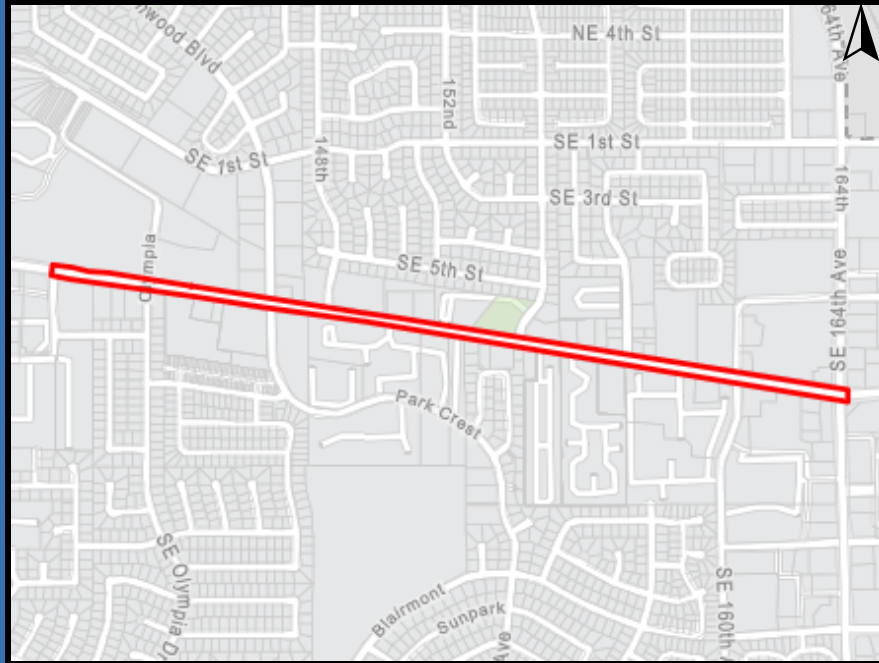
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

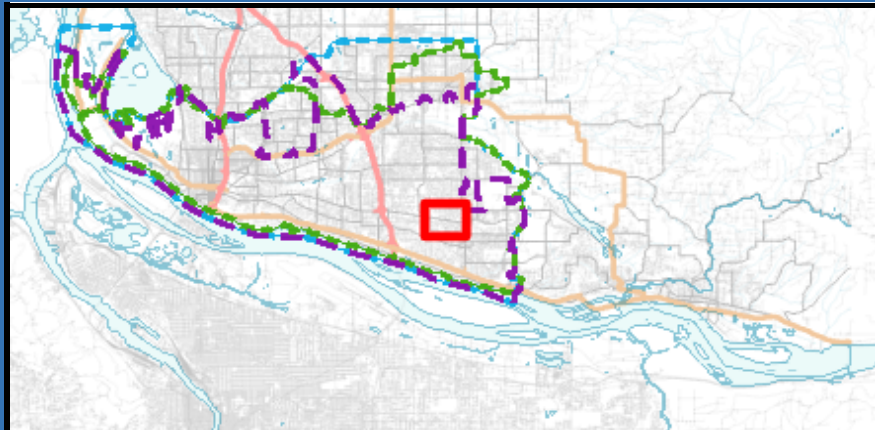
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: E Mill Plain UIC Treatment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Underground Injection Control retrofits. City match of \$430,341.00.

Project Justification

1 - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100450

Grant Funded:

Total Project Cost: \$1,770,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

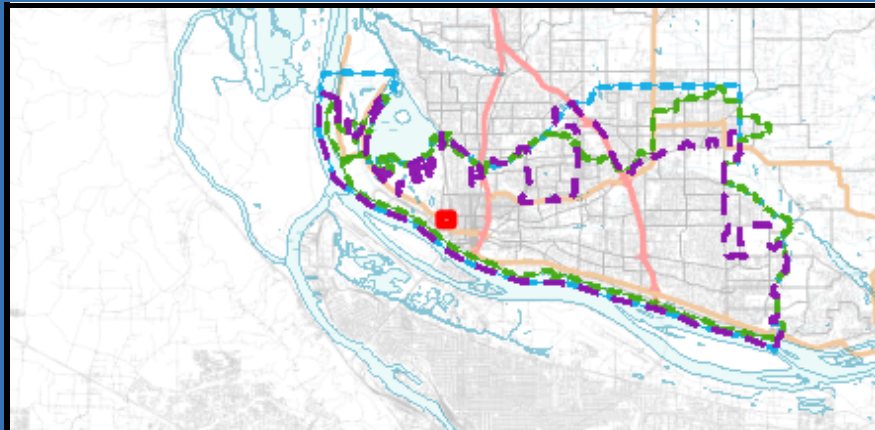
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **W 22nd St and Thompson**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION





Project Description

Underground Injection Control retrofits. City match of \$618,719.00

Project Justification

1 - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100190

Grant Funded: Yes

Total Project Cost: \$2,690,000.00

***Start of Const.:** 2024
(Year)

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

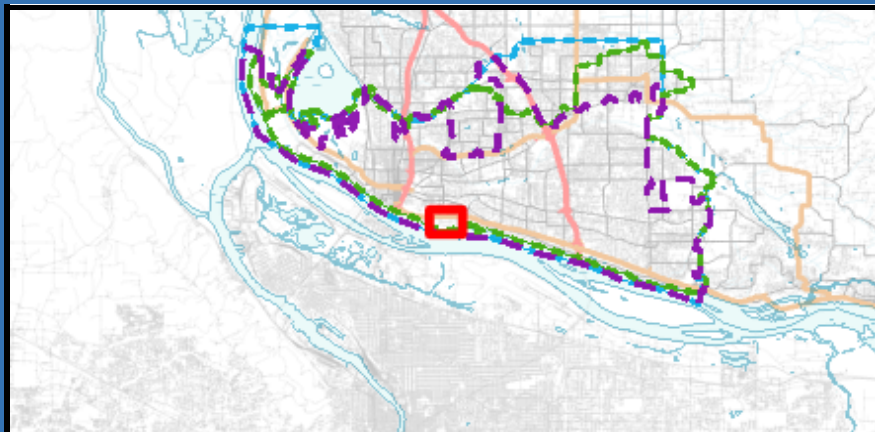
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Columbia Way to Columbia River Retrofits**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Underground Injection Control retrofits. City match of \$461,705.00.

Project Justification

1 - Compliance with WDOE regulations, replacing and retrofitting existing underground injection control systems.

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100384

Grant Funded: Yes

Total Project Cost: \$2,000,000.00

***Start of Const.:** 2025
(Year)

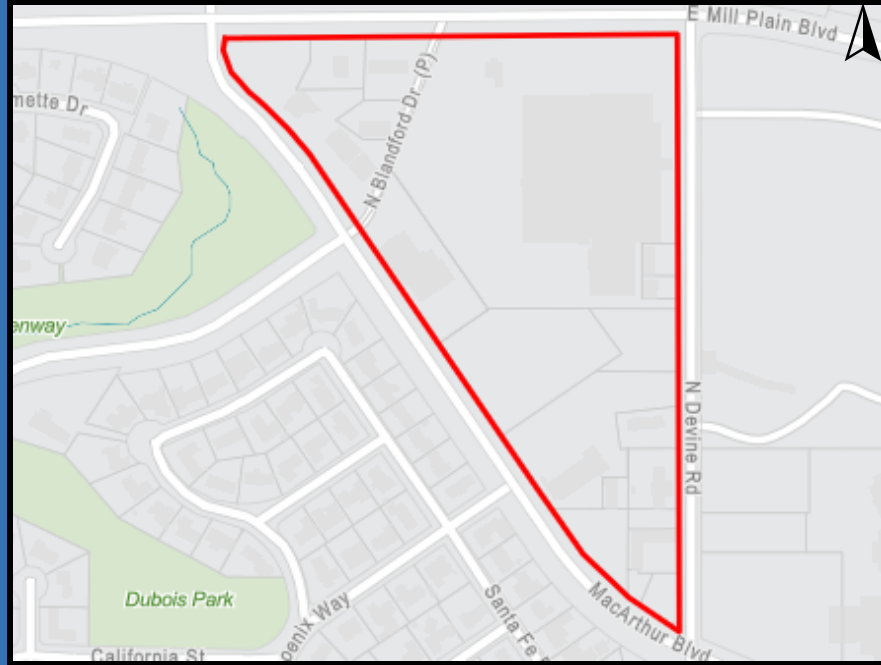
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

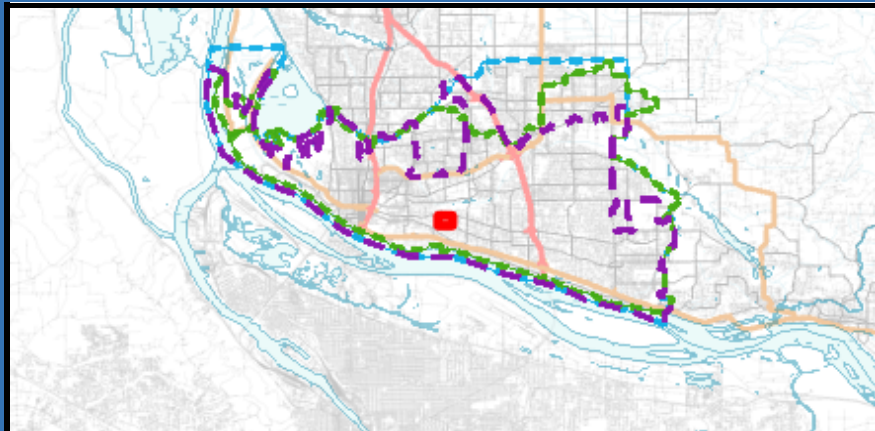
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Heights District Redevelopment

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Infrastructure improvements occurring as part of Heights District redevelopment.

Project Justification

2 - Improve safety, 3 - New system and 4 - Repalce/preserve/rehabilitate

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100715

Grant Funded:

Total Project Cost: \$377,000.00

***Start of Const.:** 2024
(Year)

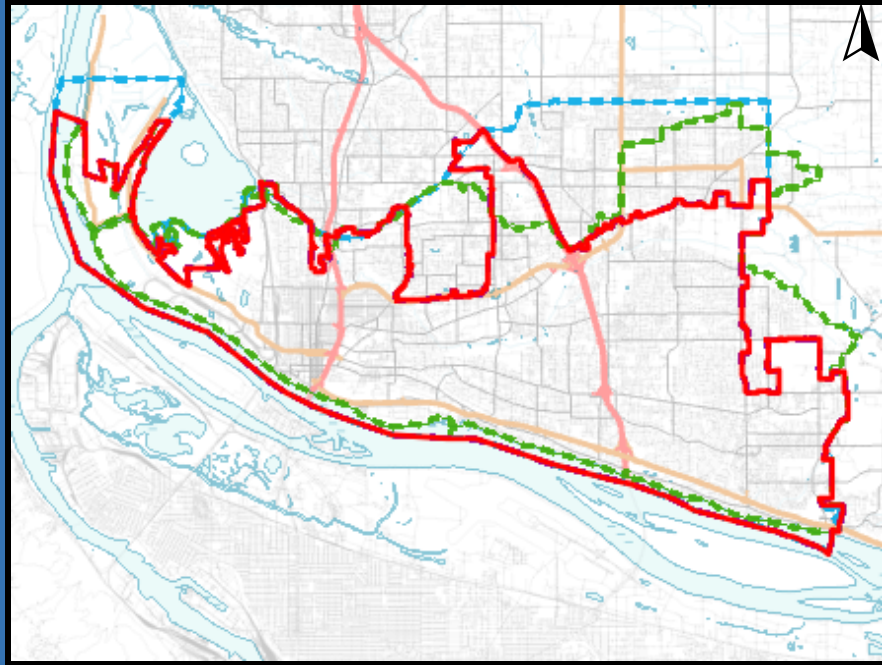
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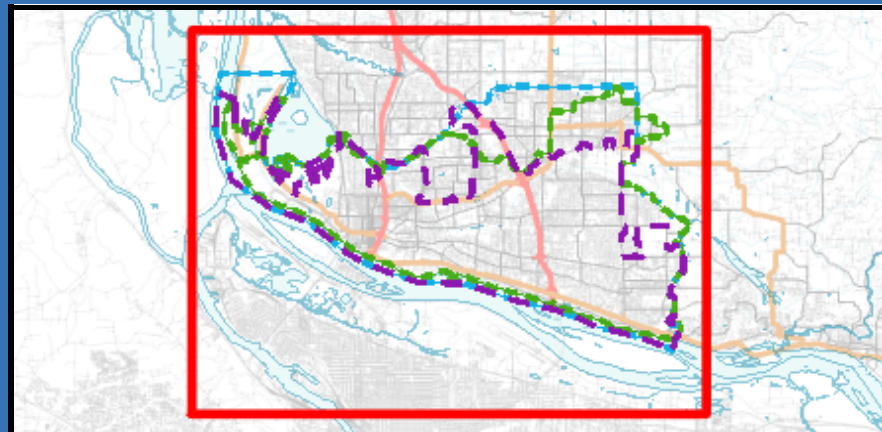
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Waste Incentive Network**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Safety
Project Status:	Active

PROJECT DESCRIPTION

Project Description

Develop and implement voucher program for business to dispose of dangerous waste at approved facilities, develop educational materials; develop focus groups, survey and needs assessment for dangerous waste disposal options for multifamily residents. This is an EPA-funded grant project.

Project Justification

2 - Improve safety

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100783

Grant Funded: Yes

Total Project Cost: \$346,000.00

***Start of Const.:** 2023
(Year)

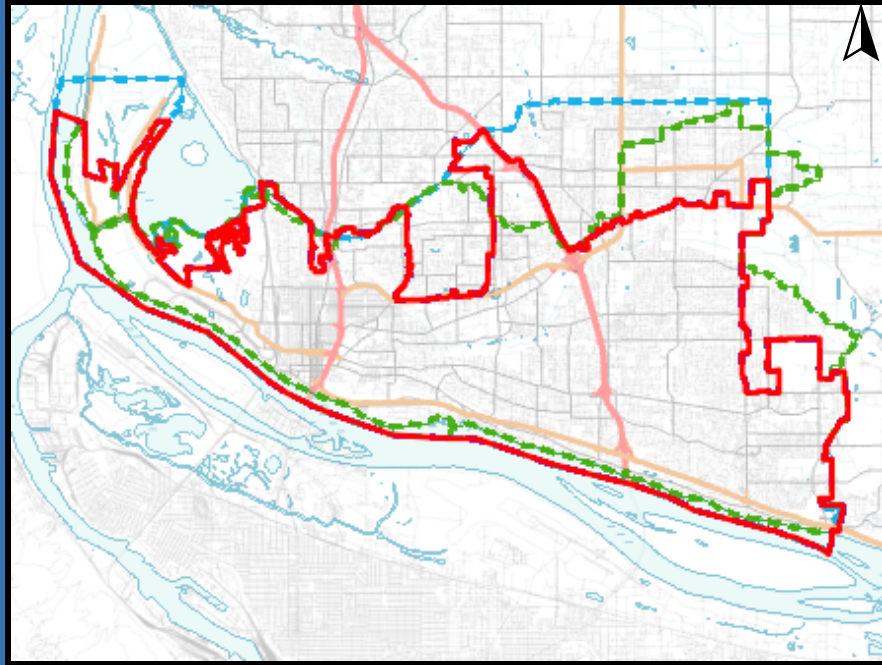
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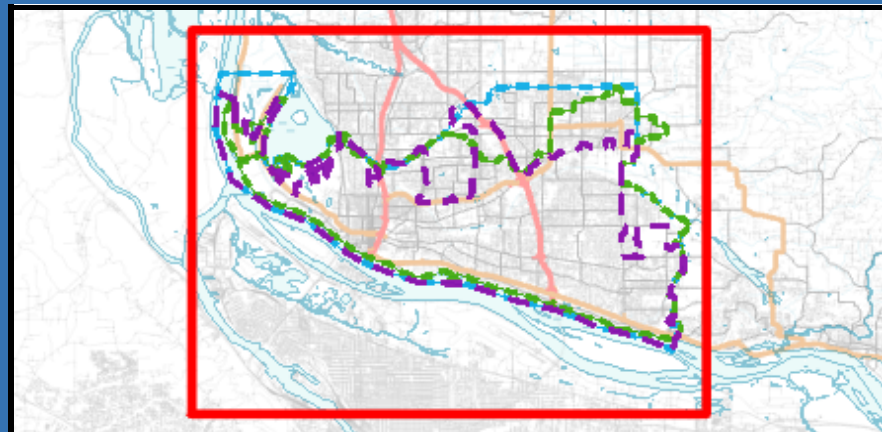
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Surface Water Manual Re-evaluation and Assessment**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Regulatory Compliance
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Surface Water Manual Re-evaluation and Assessment

Project Justification

1 - Regulatory compliance

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number PRJ100276

Grant Funded:

Total Project Cost: \$150,000.00

***Start of Const.:** 2026
(Year)

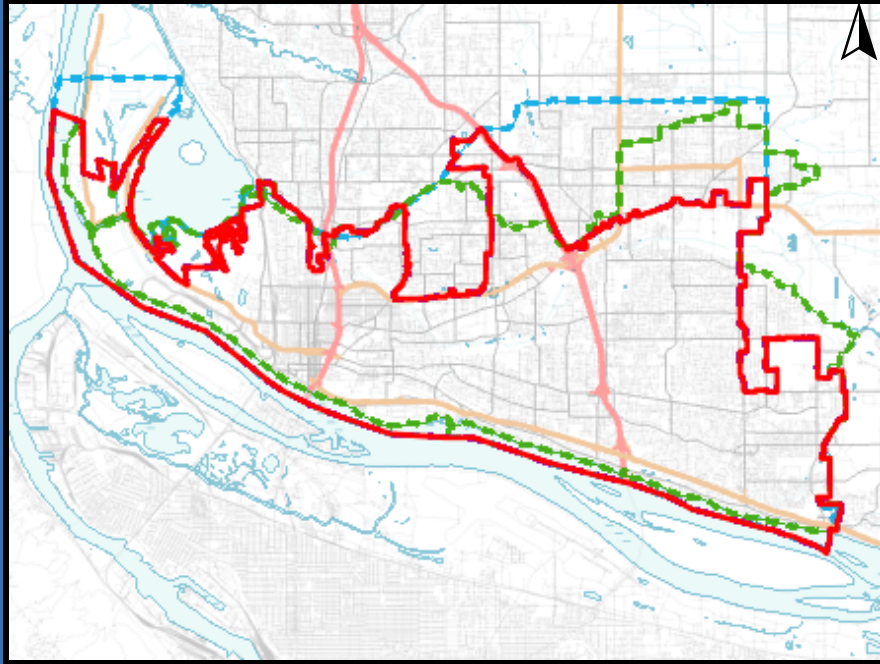
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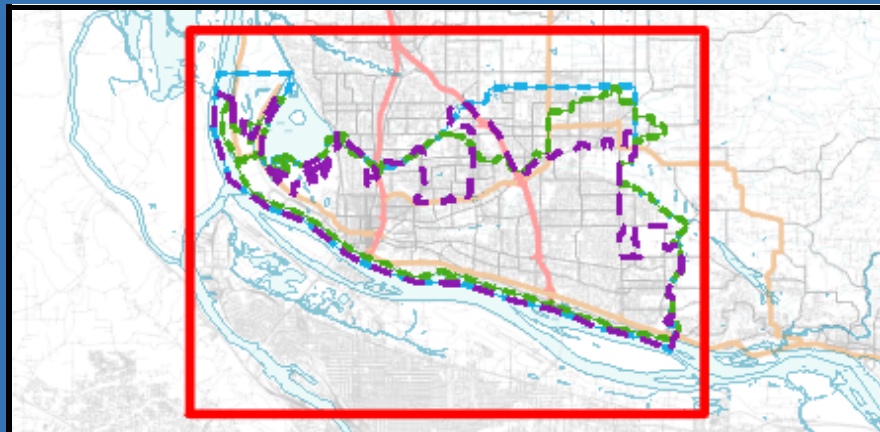
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Burton Basin Study**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Planning Study
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Burton Basin planning study to identify water quality retrofit projects.

Project Justification

1 - Regulatory compliance, 4 - Replace/preserve/rehabilitate

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$6,000,000.00

***Start of Const.:** 2026
(Year)

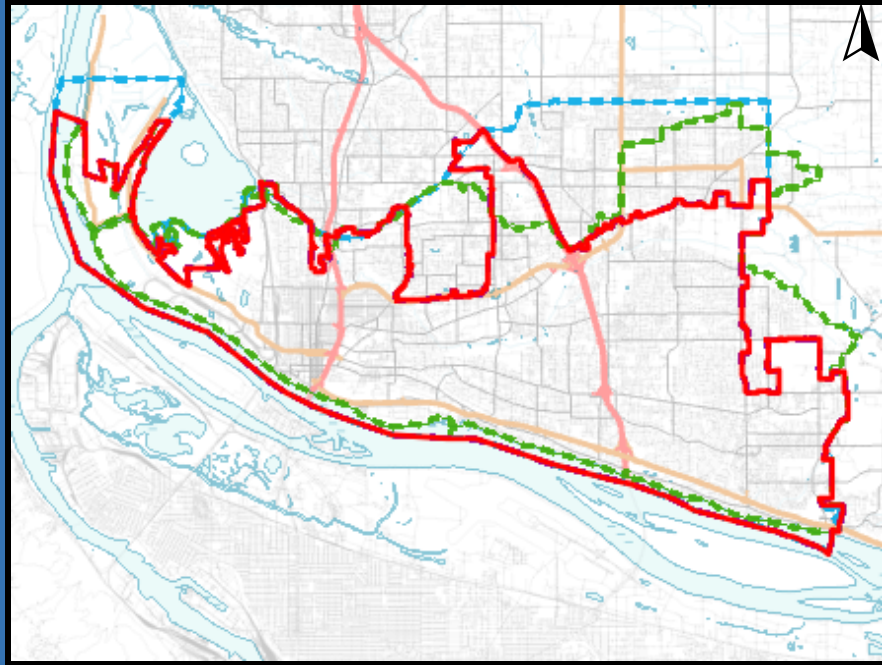
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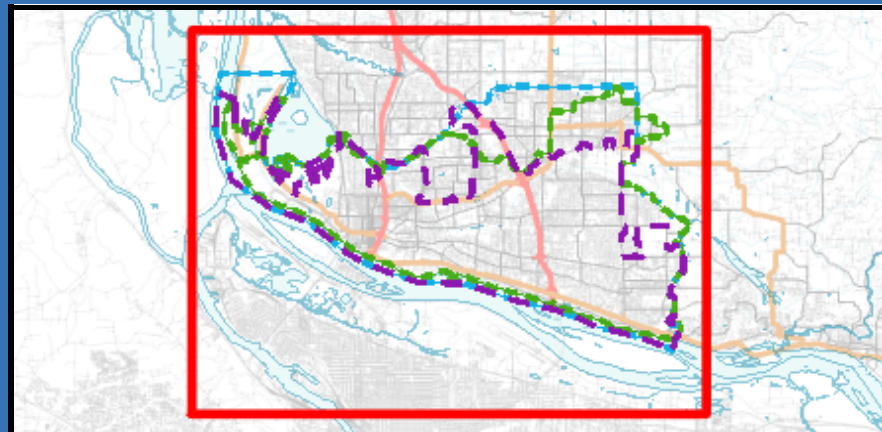
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: Columbia Slope Study

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Planning Study
Project Status:	Future

PROJECT DESCRIPTION





Project Description

Columbia Slope planning study to identify water quality retrofit projects.

Project Justification

1 - Regulatory compliance, 4 - Replace/preserve/rehabilitate

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$17,250,000.00

***Start of Const.:** 2027
(Year)

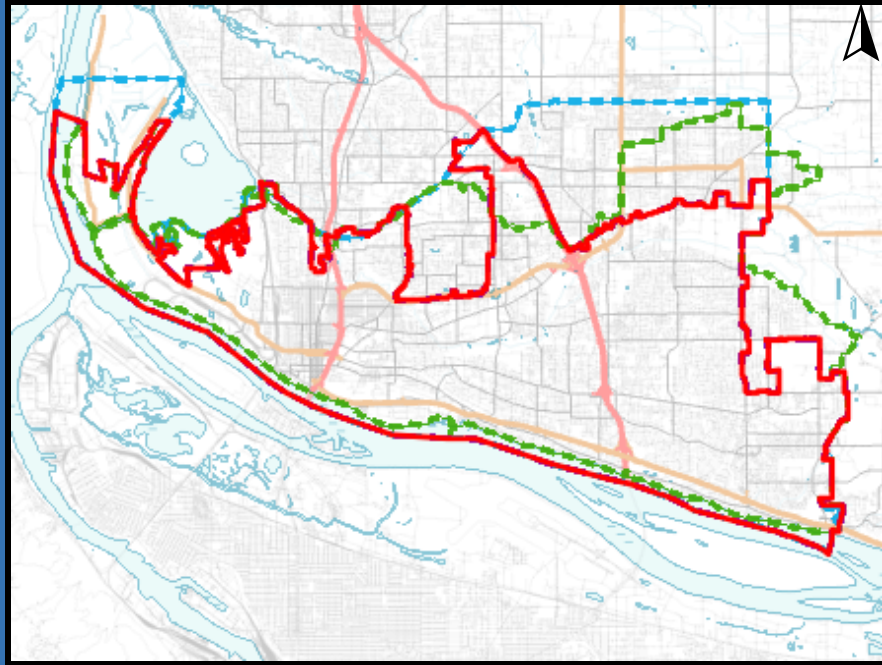
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

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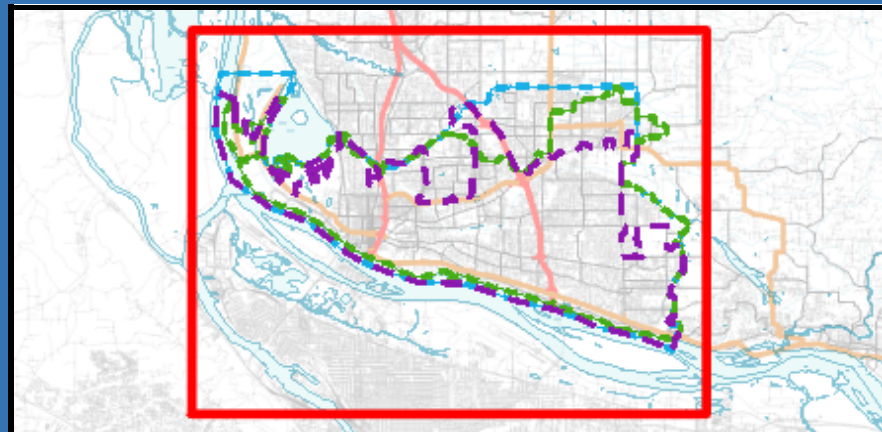
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **BBC WQ Study TMDL/SMAP Projects**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Planning Study
Project Status:	Future

PROJECT DESCRIPTION

Project Description

Burnt Bridge Creek planning study to identify water quality retrofit projects.

Project Justification

1 - Regulatory compliance, 4 - Replace/preserve/rehabilitate

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$40,000,000.00

***Start of Const.:** 2027
(Year)

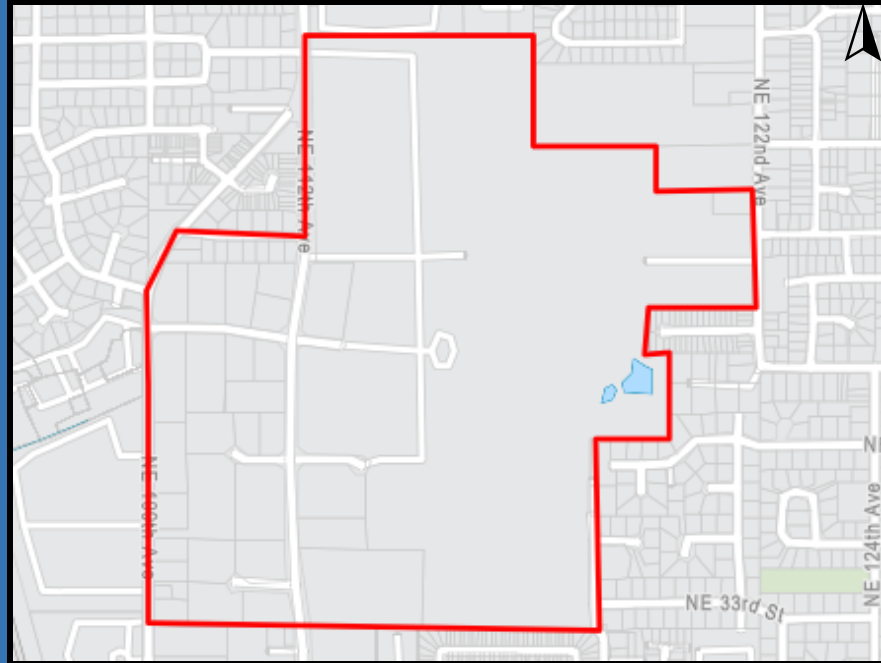
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.

2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Peterson Channel Basin Assessment and Rehabilitation (NE 112th & 39th)**

PROJECT AREA MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Stormwater Retrofit Coord.
Project Status:	Future

PROJECT DESCRIPTION

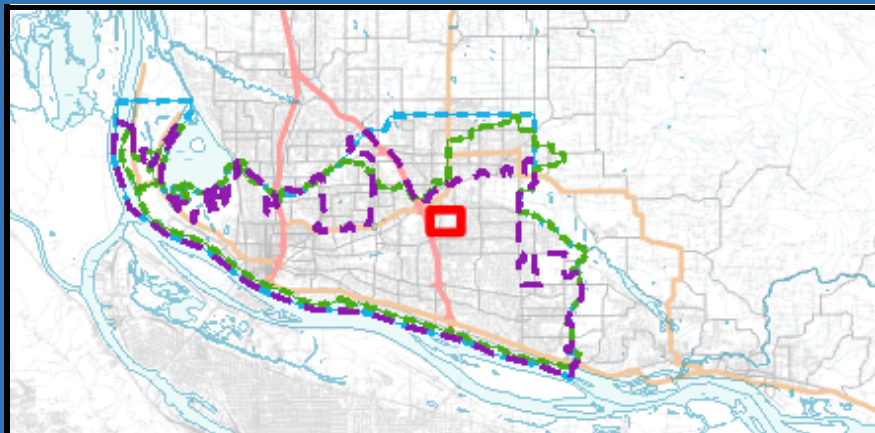
Project Description

System basin study to identify alternatives to address localized flooding and capacity constraints.

Project Justification

4 – Replace/preserve/rehabilitate system; This study project will analyze the existing system and contributing areas to evaluate capacity needs and identify any deficiencies. The study will assess alternatives and system upgrades with a recommended solution to address the issues.

VICINITY MAP



LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded:

Total Project Cost: \$2,350,000.00

***Start of Const.:** 2025
(Year)

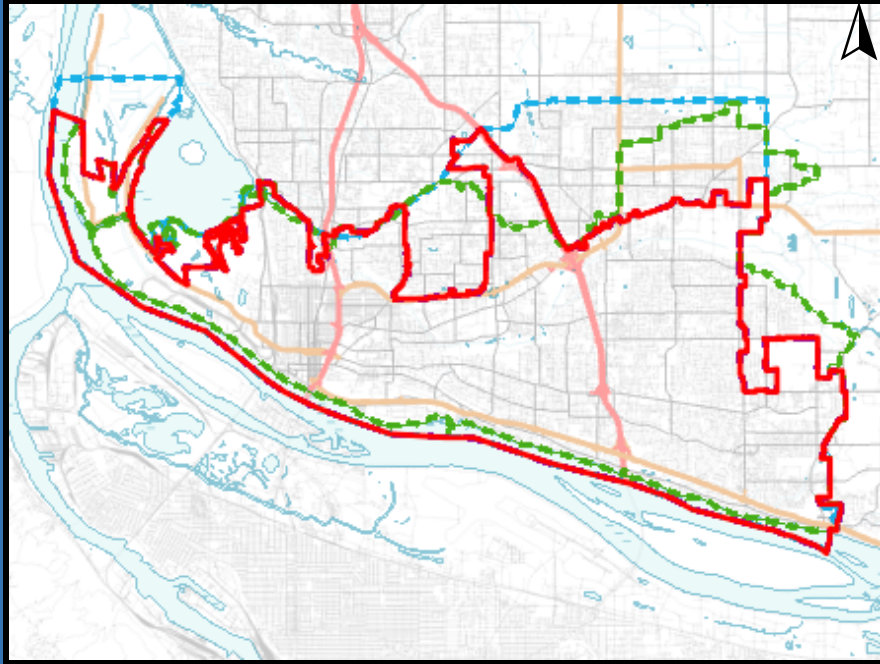
*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

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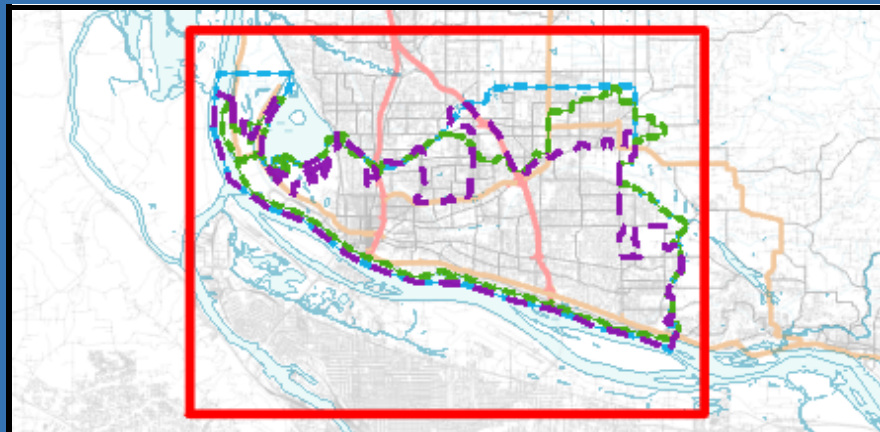
2024-2029 PUBLIC WORKS CAPITAL IMPROVEMENT PROGRAM

PROJECT: **Ecology SFAP Grants**

PROJECT AREA MAP



VICINITY MAP



PROJECT SUMMARY

Program/Discipline Type:	Surface Water
Project Type:	Ecology Retrofit Grant
Project Status:	Active

PROJECT DESCRIPTION

Project Description

City allotted matching funds for Ecology's SFAP grant program.

Project Justification

1 - Regulatory Compliance, 4 - Replace/preserve/rehabilitate system

LEGEND

	Project Area
	City of Vancouver City Limits
	Sewer Utility Service Boundary
	Water Utility Service Boundary

FUNDING & SCHEDULE

Project Number TBD

Grant Funded: Yes

Total Project Cost: \$5,000,000.00

***Start of Const. (Year)** Ongoing, Cost per year

*All project timing will be dependent on coordination with other departments including streets, pavement management, sewer, water, and surface water.

**Transportation projects (TRANS-XXX) can be found in the 6 Year Transportation Improvement Plan (TIP) document.



20 YEAR CAPITAL IMPROVEMENT
PROGRAM FOR SURFACE WATER
(2024-2044)

All costs are in 2023 dollars
Updated August 2023

Project Name	Project Number	CIP #	Spent to Date (Start thru 2022)	2023**	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	20 Year Total	
FUNDED PROJECTS:																											
Regulatory Compliance Projects - NPDES/TMDL																											
Surface Water Manual Re-evaluation and Assessment	PRJ100276	SW-80					150,000																			150,000	
Blandford Drive Subbasins UID Retrofits - Grant	PRJ100275	SW-47	293,553	289,500	2,678,495																					2,678,495	
15th Ave East Greenway Restoration	TBD	SW-A1-34						100,000																			
Regulatory Compliance Projects - UIC Retrofits																											
UIC Retrofit Ph 1 - Water Quality Treatment	TBD	SW-A1-11					250,000	200,000		500,000																950,000	
UIC Retrofit Ph 2 - Decommission & WQ Treatment	TBD	SW-A1-11																								0	
Peterson Channel Greenway Restoration	TBD	SW-A1-11																								0	
Fourth Plain SR500-131st Ave	TBD	SW-A1-11																								0	
Fourth Plain 131st Ave-162nd Ave	TBD	SW-A1-11																								0	
Central Fourth Plain - Grant	PRJ083633	SW-62	119,141	190,570	2,000,000																					2,000,000	
NE Fourth Plain (123rd-131st South) Water Quality Retrofits - Grant	PRJ100273	SW-45	203,733	929,045	300,000																					300,000	
East Orchards Fourth Plain Water Quality Retrofits - Grant	PRJ100274	SW-45	322,692	706,500	235,500																					235,500	
Columbia Way to Columbia River Retrofits - Grant	PRJ100384	SW-65	10,106	245,000	40,000	1,746,821																				1,786,821	
E Mill Plain UIC Treatment	PRJ100450	SW-63	55,736	429,360	1,287,000																					1,287,000	
Heathwood Infiltration Expansion	PRJ100487	SW-50	1,864	100,000	200,000																					200,000	
SE 18th Cir. & SE 113th Ave Storm Sewer Upgrade	PRJ100489	SW-52				50,000																				50,000	
Evergreen Highway Culverts Assessment	TBD	SW-54				200,000	250,000	200,000	1,000,000	1,000,000	1,000,000															3,650,000	
McGillivray Blvd System Rehabilitation	TBD	SW-56						250,000																			250,000
Fruit Valley Neighborhood Storm Retrofit - Grant	PRJ100642	SW-58	57,421	150,000		3,500,000																				3,500,000	
East Mill Plain CTC Basin Study	PRJ100643	SW-59	153,110	400,000		400,000																				400,000	
N 38th St and F St	TBD	SW-60						150,000																			150,000
Arterial Safety Projects																											
164th Ave Median Swale Retrofit	TBD	SW-A1-24				150,000	250,000	650,000				750,000	200,000		750,000	300,000										2,000,000	
Mill Plain at Hearthwood & Olympia	TBD	SW-A1-24							500,000																		500,000
Mill Plain & 164th Ave	TBD	SW-A1-24								750,000																	750,000
Mill Plain & 155th Ave	TBD	SW-A1-24									500,000																500,000
27th & P St	TBD	SW-55				150,000																					150,000
North Image & NE 129th Ave	TBD	SW-57				20,000	125,000																				145,000
Facility Retrofits Program																											
Country Club Village Phase B	TBD	SW-A1-36				150,000		500,000		500,000		750,000		1,000,000													2,900,000
Primrose Court DS#105	PRJ083655	SW-A1-36		28,000	150,000	250,000																					400,000
Creekside Meadows III (NE 124th Ct & 47th St)	TBD	SW-A1-36																									0
Tiffany Meadows (SE 169th & 17th St)	TBD	SW-A1-36																									0
Kristi Lane (NE 35th Cir & 119th Ave)	TBD	SW-A1-36																									0
Image Infiltration Expansion	PRJ100488	SW-51	226			75,000	150,000																				225,000
Property Acquisitions - Flood Plain, Habitat, Wetlands																											
Property Acquisitions Grants	TBD	SW-A1-20				500,000	500,000	500,000	500,000	500,000	500,000																3,000,000
51st St Sump Basin (2.5 Ac ≈\$170,000)	TBD	SW-A1-20																									0
15th Ave Wetlands (11 AC ≈\$405,000)	TBD	SW-A1-20																									0
Property Acquisitions Grants	TBD	SW-A1-20				500,000																					500,000
Burnt Bridge Creek Land Acquisitions - Phase 2	PRJ100781	SW-A1-20		250,000	250,000																						250,000
Coordination Projects (SCIP/Trans)																											
	TBD	SW-A1-21				250,000		250,000		250,000		300,000		300,000		300,000		300,000		300,000		350,000		350,000			2,950,000
Sub-Standard Systems																											
Columbia Slope Culvert - Chelsea Culvert	PRJ083664	SW-A1-37			5,000																						5,000
Fisher's Creek Culvert	TBD	SW-A1-37									250,000																250,000
Mill Creek at Evergreen Highway Culvert Replacement	PRJ083663	SW-A1-37	125,182	145,000		500,000	3,000,000																			3,500,000	
Peterson Channel Basin Assessment and Rehabilitation (NE 112th & 39th)	TBD	SW-1068				100,000	250,000	500,000	1,500,000																		2,350,000
Lincoln Outfall Basin Retrofit - W Fourth Plain	TBD	SW-1070					200,000	100,000	100,000		2,250,000																2,650,000
WSDOT Fee Projects																											
WSDOT Fees - 2020	PRJ100449	SW-A1-5	83,303	253,040	412,120	498,733	523,670	549,853	577,345	606,213	636,525	668,350	701,768	736,856	773,700	812,384	853,003	895,653	940,435	987,458	1,036,830	1,088,671	1,143,105	1,200,260	1,260,274	16,903,206	
SR14 Exit 1 Vegetation	PRJ100178	SW-A1-5																									0
Ellsworth Vegetation	PRJ100179	SW-A1-5																									0
I-5 Leverich East Slope Vegetation	PRJ100180	SW-A1-5																									0
SR500 Andresen Islands Vegetation	PRJ100181	SW-A1-5																									0
SR500 to I-205 Vegetation	PRJ100182	SW-A1-5																									0
SR500 & St Johns Vegetation	PRJ100183	SW-A1-5																									0
SR14 & 164th Ave Vegetation	PRJ100184	SW-A1-5																									0
SR500 & 39th St Vegetation	PRJ100185	SW-A1-5																									0
Orchards UIC Study	PRJ100186	SW-A1-5																									0
112th Ave & I-205 Revegetation	PRJ100187	SW-A1-5																									



GLOSSARY

FREQUENTLY USED TERMS AND ACRONYMS

BBC

Burnt Bridge Creek

CIP

Six-Year Capital Improvement Program

City

City of Vancouver

DI

Ductile Iron material

DOH

Department of Health. DOH works with agencies to project and improve the health of all people in Washington state.

EPA

Environmental Protection Agency. The EPA protects people and the environment from significant health risks, sponsors and conducts research, and develops and enforces environmental regulations.

ER&R

Equipment Rental and Revolving fund. ER&R funds are established to provide equipment rental services within a local government. ER&R funds are internal service funds and operates on a cost reimbursement basis (without generating a profit).

Framework

Water Resiliency Framework. The Framework recognizes the intrinsic connection of our water and relation to community health, economy, reliable infrastructure, and service.

GMA

Growth Management Act. GMA requires all cities and counties to adopt regulations protecting critical areas, or environmentally sensitive natural resources that are designated for protection and management.

LF

Linear Feet

NPDES

National Pollution Discharge Elimination System. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to waters of the state.

PFAS

Per- and Polyfluoroalkyl Substances. PFAS are a group of over 5,000 manmade chemicals that are found in many common consumer and industrial products like non-stick cookware, food packaging, stain resistant fabrics, firefighting foam and more. Most PFAS don't break down, which is why they are also called "forever chemicals".

PS

Pump Station

Right-of-Way/ROW

Right-of-way is property held by the City for existing or future public roads or other public improvements.

SCADA

Supervisory Control and Data Acquisition

SCIP

Sewer Connection Incentive Program. The SCIP provides an easy and affordable solution to septic owners within the service area to connect to the public wastewater system.

SDC

System Development Charges. SDC means that connection fee charged so that the property upon which it is imposed will pay its equitable share of the costs of the water-sewer system facilities which are system-wide in nature and are not site specific needs, including such property's equitable share of the amount required to upgrade system to meet the demands imposed by the development.

SEH

Shin-Etsu Handotai America

SEPA

State Environmental Policy Act. SEPA is a state law requiring agencies to consider the environmental consequences of their decisions. (WAC 197-11-790).

SFAP

Stormwater Financial Assistance Program. The Ecology SFAP grant is designed to fund stormwater projects and activities that have proven effective at reducing impacts from existing infrastructure and development and enhance existing stormwater programs.

SRL

State Revolving Loan. SRL funds are loan programs that are capitalized by federal grants, state appropriations and dedicated revenues.

TBD

To Be Determined

TIP

Six-Year Transportation Improvement Program

UIC

Underground Injection Control. UIC wells or injection wells are structures built to allow fluids to flow in the ground under the force of gravity (e.g. drywell). The UIC program (Chapter 173-218 WAC) protects groundwater by regulating the discharge of fluid from UIC injections wells.

Utilities

Refers to water, sewer, and stormwater utilities.

WDOE/Ecology

Washington Department of Ecology is Washington's environmental protection agency; to protect, preserve, and enhance Washington's land, air, and water for current and future generations.

WS

Water Station

WSDOT

Washington State Department of Transportation. WSDOT is a department of the State of Washington responsible for transportation-related planning, management, and coordination.

WWTF

Wastewater Treatment Facility



For additional information see:
www.cityofvancouver.us/cip



To request other formats, please contact:
Vancouver Public Works
360-487-7130 | TTY: 360-487-8602
betterstreets@cityofvancouver.us