



Crosswalk Summary Discussion

Crosswalk Analysis

Description

A crosswalk analysis was conducted by reviewing and comparing related planning documents to current and proposed surface water program activities. Six city planning documents relevant to the stormwater program were reviewed for potential opportunities to coordinate and collaborate. The crosswalk analysis was completed early in the surface water planning process. This review included coordination with staff from Planning, Parks and Community Services, and Transportation departments and was critical in identification and recommendation of final actions advanced in this plan, however, the final plan outcomes may not reflect the early ideas presented in this summary.

The plans reviewed and the department responsible for development and implementation of the plan are noted below:

- 2015 Comprehensive Plan (Planning and Building Department)
- 2015 Transportation Master Plan (Transportation Department)
- 2015 Parks, Recreation and Open Space Plan (PROS) (Parks and Community Services Department)
- 2021 NE 85th Street Station Area Plan (Planning and Building Department)
- 2021 Urban Forestry Plan (Planning and Building Department)
- 2020 Sustainability Master Plan (Planning and Building Department)

Methodology

The six plans were reviewed for commonalities with and links to the Surface Water Master Plan Update as well as specific strategies that could be incorporated into the Surface Water Plan Update. Strategies for coordination and collaboration with different departments to advance common initiatives that support mutual goals were identified. Figure 1 shows the general commonalities and links for all plans, and specific plans where noted.



Figure 1. Commonalities between Surface Water Plan and Plans Reviewed.

The plans were specifically reviewed for surface water planning elements, such as:

- Capital projects with potential collaboration potential
- Funding sources
- Level of service standards
- Planning cycle frequencies
- Constraints
- Surface water program input recommended in the plan

Attachment A includes the full table of results.

Stakeholder interviews were conducted with staff from each department (See Interview Summary, Appendix F) enhancing and validating what was learned in the review of planning documents. Follow-up stakeholder meetings were held to discuss findings of the crosswalk analysis and request input, refinement, and recommendations for the plan.

Department Stakeholder Input

Stakeholder interviews provided an initial baseline understanding of some of the issues faced within city departments, where there are current or potential opportunities for collaboration with Surface Water staff.

What we heard from stakeholders:

1. Kirkland staff are very appreciative of the cross-departmental collaboration and feel supported by their counterparts across the City.
2. Urban forestry is important, but there is concern about piecemeal funding and SW as a funding source.
3. Over 80% of Kirkland Parks are natural areas. The City has a huge deficit of recreational spaces (i.e., playfields).
4. Advanced mitigation program and care of open spaces needs to be better coordinated. Funding and responsibilities are unclear.
5. The Comp. Plan will be identifying areas to focus 2019-2044 projected housing and job targets. The City's smart growth policies will continue to see growth concentrated in urban centers (Totem Lake, Downtown, Station Area, etc) to preserve lower density neighborhoods and environmentally sensitive areas.

Coordination , Collaboration and Strategy Development

The City does a good job at interdepartmental collaboration, and there is already a lot of coordination and collaboration between departments. However, there are also opportunities for improvements. A workshop with department stakeholders was convened to discuss how collaboration and coordination could be improved and actions that should potentially be advanced in the Surface Water Master Plan that provide mutual benefits across the City and departments. Attachment B shows the presentation from the workshop and highlights some of the strategies described below.

Planning and Building Department Strategies

Planning and Building Department strategies related to Surface Water were reviewed in the Comprehensive Plan, Urban Forestry Plan, and Sustainability Plan. The following opportunities for coordination and collaboration were identified with potential outcome of the strategy in parentheses.

Urban Forestry Initiatives (from Urban Forestry Plan)

1. Determine how to explicitly tie trees and their values to stormwater (funding justification). (Study)
2. Develop policies to retain ROW trees and reduce removals with development. (Policy)
3. Develop robust street tree planting program. (Implementation Plan)
4. Develop private tree planting programs. (Implementation Plan)
5. Develop public tree planting and establishment policies. (Policy)

General Policy Development

1. Update policies to provide clearer guidelines that support stormwater mgmt. and receiving water quality. (Policies)
2. Clarify policies on advanced mitigation responsibility after initial maintenance has ended. (Policies)

3. Determine constraints/opportunities for new development/redevelopment with regard to surface water management. (Feasibility Study)

These strategies were considered in the development of programmatic actions in the Surface Water Plan.

Parks and Community Services Department Strategies

Parks and Community Services strategies related to Surface Water were reviewed in the PROS Plan. The following opportunities for coordination and collaboration were identified with potential outcome of the strategy in parentheses.

1. Consider how to better support tree canopy and restoration efforts in PW Open Spaces. (Implementation Plan)
2. Try to identify locations where PROS plan says new pocket parks are needed and retrofit is also needed. (Analysis/Map)
3. Assess opportunities for retrofits at Kirkland Parks. (Analysis/Map)
4. Assess opportunities for retrofit of SW facilities to potential park spaces (i.e., conversion from ponds to vaults with play surfaces on top). (Analysis/Map)

These strategies were considered in the development of programmatic actions in the Surface Water Plan.

Transportation Department Strategies

Transportation strategies related to Surface Water were reviewed in the Transportation Master Plan. The following opportunities for coordination and collaboration were identified with potential outcome of the strategy in parentheses.

1. Clarify SW policy on funding for stormwater elements of transportation projects. (Policy)
2. Coordinate advanced identification (3- 4 year program plan) of street overlay to assess and coordinate stormwater pipe repair and replacement needs. (Early Notice)
3. Evaluate transportation CIP to coordinate surface water improvements. (Implementation Plan)
4. Evaluate excess ROW for potential SW opportunities.
5. Standardize CIP naming conventions and elements for efficient coordination, planning, and project execution.

These strategies were considered in the development of programmatic actions in the Surface Water Plan.

Crosswalk Summary

The intent of the crosswalk process was to identify opportunities for mutual collaboration and coordination on projects that involve stormwater, and to avoid duplication of efforts across departments. This was a point-in-time analysis, even though planning was active, continuing, and changing in all of the related plans that were reviewed. The ideas brought forth by the stakeholders

were incorporated into programmatic actions in the Plan, as deemed feasible, and stakeholders provided input on actions that involved their staff time.

Lessons Learned

This process was useful in the development of the Surface Water Plan, however, there are some elements that might be more efficient for future planning efforts including the following:

1. It's difficult to conduct a point-in-time review of planning documents that are on different planning horizons because things have changed by the time the review has occurred. It could be more efficient in the future to skip the review of the planning documents and just focus on staff interviews involved in the planning to ensure better collaboration and coordination.
2. It was very useful to have staff from other departments provide input on programmatic projects where they may be asked to contribute staff time or budget due to mutual benefits or specialized staff requirements outside of surface water. This should continue in future plans because it provides buy-in and helps budgetary planning so that other departments aren't caught off guard with commitments that they aren't aware of.

Attachment A. Matrix of Plans and Related Elements

Plans Reviewed	Surface Water Planning Elements												
	Key Surface Water Collaboration Elements Included in Review	Goals (Related to Surface Water)	Regulatory Drivers	City and Community Partners	Non-Project Opportunities for Coordination	Capital Projects with Collaboration Potential - Funded (beginning after 2022)	Capital Projects with Collaboration Potential - Unfunded (beginning after 2022)	Funding Sources	Level of Service or Standards	Planning Cycle Frequency	Constraints	Items for Further Exploration (Data Gaps/Inconsistencies)	Surface Water Input Recommended to Respective Plan
Surface Water Master Plan (SWMP)	• Not applicable	Manage surface and stormwater resources to: <ul style="list-style-type: none"> Reduce flooding Improve water quality Protect and maintain infrastructure Improve aquatic habitat Promote environmental stewardship and public education 	<ul style="list-style-type: none"> Clean Water Act Phase II NPDES Permit Ecology 303(b) List National Flood Insurance Program Endangered Species Act Hydraulic Project Approval Growth Management Act State House Bill 2251 (Fish barrier) Shoreline Management Act 	<ul style="list-style-type: none"> Muckleshoot Tribe WSDOT WDFW Ecology WRISA & Salmon Recovery Council King County Flood Control District King County Water and Land Resources Wastewater Division King Conservation District Green Kirkland Partnership City Water and Sewer Utility Parks Department Transportation Department Urban Forestry Department Land Use Planners 	<ul style="list-style-type: none"> Urban Forestry (L.F.3/ S.C.7.4) - Growing recognition that trees and urban forests play crucial role in surface water management. Climate Change Protection (2.E.1/ 5.E.2) - As the City upgrades piped infrastructure and replaces culverts, opportunity to update systems to accommodate future flow increases associated with climate change LID (2.F.1) - Emphasis on multifaceted benefits from green infrastructure use such as aesthetic, cooling, and air quality benefits. 2021 Streets Levy - The street preservation program doubled with passage of this levy, increasing time spent investigating and repairing stormwater infrastructure ahead of paving overlay. Salmon Wash Program Benthic Index of Biotic Integrity monitoring Participation in the WRISA & Salmon Recovery Council - To address threatened Chinook populations. 60. Stream Deltas in Lake Washington - Coordination and grant work conducted by KCLR/Wastewater Div. to conduct bathymetric survey at stream deltas in Lake Washington stormwater outfalls to determine the magnitude of sediment buildup and potential impacts on boat launch operations (for recreational uses). 6E. Neighborhood Drainage Assistance Program (CIP 2013-2018) - Funds to assist with drainage issues the City is not liable for but that are relatively inexpensive and that would benefit property owners. 	<ul style="list-style-type: none"> SDC 04700 Annual Replacement of Infrastructure (beginning after 2022) SDC 04900 Forbes Creek/ 108th Ave Fish Passage SDC 05300 Forbes Creek/Cours Pond Channel Grade Control SDC 06300 Everett Creek- State Ave at Alexandria St. SDC 08100 Neighborhood Drainage Assistance Program SDC 09000 Goat Hill Drainage Ditch / Channel Stabilization SDC 09200 Juanita Creek Culvert at NE 127th St. 2021 Streets Levy - The street preservation program doubled with passage of this levy, increasing time spent investigating and repairing stormwater infrastructure ahead of paving overlay. SDC 10500 Property Acquisition Opportunity Fund SDC 12700 Storm Rehabilitation at Rose Point Lift Station SDC 12800 NE 85th St/ 122 Ave NE SW Improvements SDC 12900 NE Juanita Drive Storm Failure near 86th Ave NE SDC 13200 WQ and Infiltration at NE 111th Pl/127th Pl NE SDC 13900 122nd Ave NE Storm Replacement SDC 14000 Holiday Drive Conveyance Improvement Study SDC 14100 Storm Line Rehabilitation on NE 136th St SDC 14200 93rd Ave NE Hillside Improvements 	<ul style="list-style-type: none"> SDC 04500 Carlton Woods Erosion Control Measures SDC 05100 Forbes Creek/ King County Metro Access Road Culvert SDC 06100 Everett Park Stream Channel/ Riparian Enhancements SDC 08500 Cross Kirkland Corridor Water Quality Retrofit SDC 09400 NE 114th Pl Storm Line Replacement SDC 09700 Champsiee Creek Stabilization SDC 09800 Holmes Pl Pipe Replacement at Champsiee Creek Basin SDC 10200 Juanita Drive Culvert Replacement SDC 10300 Lakeview Drive Conveyance Modification SDC 12200 127th Ave NE Pipe Repair SDC 13100 111th Ave NE Pipe Repair SDC 13400 124th Ave NE Pipe Repair SDC 13500 Weaver's Pond Pipe Replacement SDC 13600 NE 140th St Pipe Replacement SDC 13700 11th Ave NE Pipe Repair SDC 13800 Champsiee Pl Dr NE Pipe Repair SDC 13900 NE 58th St Pipe Repair SDC 14000 Kingsgate Park Pipe Outfall Improvements SDC 14300 Bioremediation, WQ and Storage at 126th Ave NE SDC 143100 NE 107th Pl Retention pond retrofit SDC 143800 Outlet Path at 101st Pl NE SDC 14300 Retrofit Planning within City Limits SDC 14400 116th Ave Storm Facility SDC 14500 NE 61st St Storm Facility Relocation SDC 14600 126th Ave NE Storm Pipe Replacement SDC 14700 131st Ave NE Storm Improvements SDC 14800 105th Pl NE Pipe Replacement 	<ul style="list-style-type: none"> Utility Rate Capital Funding External Sources including: <ul style="list-style-type: none"> King Conservation District King County Flood Control District Green Kirkland Partnership Ecology Grants 	<ul style="list-style-type: none"> Yes, including: <ul style="list-style-type: none"> Treat and attenuate stormwater for public safety Protect hydrologic regime and water quality Protect habitat Sufficient conveyance capacity to contain 25-year flow, and route up to 100 year flow 	<ul style="list-style-type: none"> CIP 2021-2026 Every six years NPDES Phase II Permit (2019-2024) Every 5 years 		<ul style="list-style-type: none"> Not applicable 	
Comprehensive Plan	<ul style="list-style-type: none"> Future growth Development boundary guidelines Redevelopment constraints Regional facility needs Tree & vegetation policies Land use policies 	Growth management planning and policies for: <ul style="list-style-type: none"> Land use Development Economic development Transportation Environment Public utilities Capital facilities 	<ul style="list-style-type: none"> Growth Management Act Shoreline Management Act Puget Sound Regional Council VISION 2040 Countywide Planning Policies King County Flood Control District King County Water and Land Resources Wastewater Division King Conservation District Green Kirkland Partnership City Water and Sewer Utility Parks Department Transportation Department Urban Forestry Department Land Use Planners Developers 	<ul style="list-style-type: none"> Muckleshoot Tribe WSDOT WDFW Ecology WRISA & Salmon Recovery Council King County Flood Control District King County Water and Land Resources Wastewater Division King Conservation District Green Kirkland Partnership City Water and Sewer Utility Parks Department Transportation Department Urban Forestry Department Land Use Planners Developers 	<ul style="list-style-type: none"> Goal E-1: Protect and Enhance Kirkland's Natural Systems and Features <ul style="list-style-type: none"> All policies provide opportunities. Key highlights listed below. Policy E-1.1: System-Wide Approach to Natural Systems Management <ul style="list-style-type: none"> Partner with affected State, regional, and local agencies, and tribes. Policy E-1.6: Create Habitat Corridors for Wildlife Migration <ul style="list-style-type: none"> Forested areas to support local forest tree credits Policy E-1.9: Watershed-Based Approach <ul style="list-style-type: none"> Policy E-1.16: Seek Opportunities for WQ Retrofits & Regional Facilities Goal E-2: Protect, Enhance and Restore Trees and Vegetation <ul style="list-style-type: none"> Policy LU-1.2: Create Logical Land Use District Boundaries <ul style="list-style-type: none"> Align district boundaries with basin boundaries where possible. Policy LU-1.4: Create Effective Transitions Between Different Land Uses <ul style="list-style-type: none"> Make noise and visual buffers vegetated or forested Policy LU-1.5: Regulate Development in Sensitive Areas <ul style="list-style-type: none"> Improve accurate survey and mapping of these areas Policy LU-2.2: Infill Development and Redevelopment <ul style="list-style-type: none"> Look for adjacent stormwater retrofit opportunities for built-out lands Policy LU-5.3: Enhance Neighborhood Commercial and Mixed Use Areas <ul style="list-style-type: none"> Target preservation areas based on water resources and soil Policy LU-5.5: Support the Greater Downtown Area as an Urban Center <ul style="list-style-type: none"> Opens potential funding sources for infrastructure Policy LU-5.7: Encourage Redevelopment in Light Industry/Office Areas <ul style="list-style-type: none"> Target preservation areas based on water resources and soil Goal LU-6: Connected system of open space throughout the City <ul style="list-style-type: none"> Target preservation areas based on water resources and soil Policy Y-5.1: Adoption of Bikeway Street Standard <ul style="list-style-type: none"> Less impervious surface results in less surface water impact Policy Y-5.2: Design Streets to Support Interdepartmental Goals <ul style="list-style-type: none"> Use of modern Urban Street guidelines that include preservation of existing trees and inclusion of new trees and landscaping. This could provide opportunity to apply Ecology tree credit or use LID features such as bioretention cells. Policy Y-6: Environmental Sustainability <ul style="list-style-type: none"> Cars and Surface Water Impact avoidance through recognition of impacts associated with car wash runoff, vehicle leaks, exhaust particles, and brake pad and tire wear dust. As recent developments have shown tires wear contributes the compound GPPD-quinone, look for future opportunity for grants here. 	<ul style="list-style-type: none"> See respective department master plans 	<ul style="list-style-type: none"> See respective department master plans 	<ul style="list-style-type: none"> Individual departments funded as listed in respective master plans 	<ul style="list-style-type: none"> Yes - Conveyance, flow control, and water quality treatment per the Stormwater Management Manual for Western Washington or equivalent to prevent flooding, and protect water quality, and habitat in streams and lakes 	<ul style="list-style-type: none"> 20 year document Target year of 2035 	<ul style="list-style-type: none"> Policy E-4.1B: Promote Preservation and Adaptive Reuse of Existing Structures <ul style="list-style-type: none"> May present a barrier to stormwater redevelopment standards – look for ways to incorporate retrofits 	<ul style="list-style-type: none"> Help update identified policies to provide clearer guidelines that support stormwater management and receiving water quality 	
Transportation Master Plan	<ul style="list-style-type: none"> Potential hard surface disturbance Projects beginning 2022 or after Geographic proximity 	<ul style="list-style-type: none"> Link to Land Use Sustainability 	<ul style="list-style-type: none"> King County Metro Sound Transit WSDOT Puget Sound Regional Council 	<ul style="list-style-type: none"> Policy Y-5.1: Adoption of Bikeway Street Standard <ul style="list-style-type: none"> Less impervious surface results in less surface water impact Policy Y-5.2: Design Streets to Support Interdepartmental Goals <ul style="list-style-type: none"> Use of modern Urban Street guidelines that include preservation of existing trees and inclusion of new trees and landscaping. This could provide opportunity to apply Ecology tree credit or use LID features such as bioretention cells. Policy Y-6: Environmental Sustainability <ul style="list-style-type: none"> Cars and Surface Water Impact avoidance through recognition of impacts associated with car wash runoff, vehicle leaks, exhaust particles, and brake pad and tire wear dust. As recent developments have shown tires wear contributes the compound GPPD-quinone, look for future opportunity for grants here. 	<ul style="list-style-type: none"> Filtered by hard surface disturbance (opportunity for WQ or flow control improvement) STC 0591300 124th Ave NE Roadway Improvements STC 0800000 NE 85th/ 6th Ave Westbound Transit Queue Jump STC 1090000 NE 85th EB 3rd lane 120th Ave NE to 122nd Ave NE STC 1380000 NE 100th Street/ 132nd Ave NE Intersection Improvements NMC 1130000 City-wide greenspace network TRC 1390000 85th St/ 132nd Ave dual left turn lane design 	<ul style="list-style-type: none"> Filtered by hard surface disturbance (opportunity for WQ or flow control improvement) PKC 0504000 108th Ave NE Transit Queue Jump - Phase I PKC 0505000 108th Ave NE Transit Queue Jump - Phase II 	<ul style="list-style-type: none"> Gas Tax Revenue Generating Regulatory License Real Estate Excise Taxes (1 & 2) Street Levy Solid Waste Surface Water Impact Fees External Sources Capital Reserve Debt 	<ul style="list-style-type: none"> Yes - based on the completion of the 20 year Land Use and Transportation networks, to meet the community's transportation needs for all modes in a safe and efficient manner. 	<ul style="list-style-type: none"> 20 year document Target year of 2035 CIP 2021-2026 Every six years 		<ul style="list-style-type: none"> Identify future projects for coordinated retrofit 		
Parks, Recreation, & Open Space Plan	<ul style="list-style-type: none"> Coordinated facilities: sites for SW facilities, SW parks, etc. 	<ul style="list-style-type: none"> Conservatorship including preservation and restoration of ecologically relevant areas Develop, enhance, and maintain greenways Environmental stewardship and education through informational signage, programs, and partnerships Support learning for target populations Planning, design, and maintenance strategies to minimize environmental impacts 	<ul style="list-style-type: none"> King County Parks Lake Washington School District Green Kirkland Private and Non-profit Orgs City Public Works Transportation Department 	<ul style="list-style-type: none"> Policy T-6.4: Minimize Environmental Impacts of Transportation Facilities <ul style="list-style-type: none"> Reduce greenhouse gas emissions, and as a result air and water pollution, in order to meet environmental goals set by the comprehensive plan. To be achieved through reduction of motorized transportation modes. 	<ul style="list-style-type: none"> PKC 1550000 Green Loop Master Plan & Acquisition <ul style="list-style-type: none"> If development protects forested areas, joint support could apply towards runoff tree credit PKC 1610000 McAuliffe Park Sanitary Sewer <ul style="list-style-type: none"> Addressing aging infrastructure. Review for opportunity to upgrade SW infrastructure in the area PKC 1620000 Wayfinding and Park Signage Program <ul style="list-style-type: none"> Collaborate on signs with water resources focus to meet NPDES Permit requirements for public outreach and education 	<ul style="list-style-type: none"> Kirkland Parks Levy Parks Facility Sinking Fund Real Estate Excise Tax Park Impact Fees King County Park Levy External Sources Capital Reserves 	<ul style="list-style-type: none"> Yes - Investment per person and resident proximity to park facilities 	<ul style="list-style-type: none"> CIP 2021-2026 Every six years 		<ul style="list-style-type: none"> Brainstorm potential locations and scenarios for incorporation of regional facility retrofits into existing or future park space Brainstorm potential locations and scenarios for specific stormwater park space-making 			
NE 85th Street Station Area Plan	<ul style="list-style-type: none"> Future area-wide retrofit 	<ul style="list-style-type: none"> Station Area Plan goals to be in line with City's Comprehensive Plan goals by: <ul style="list-style-type: none"> Supporting Sustainability Aligning with the City's future land use goals Aligning with transit-oriented goals Minimizing environmental impacts 	<ul style="list-style-type: none"> NEPA SEPA 	<ul style="list-style-type: none"> WSDOT Sound Transit City of Bellevue City of Redmond 	<ul style="list-style-type: none"> Environmental Strategies associated with the preliminary alternative selection include: <ul style="list-style-type: none"> Minimization of development near Forbes Lake Stormwater Improvements included as part of the WSDOT I-405 Interchange project On-site stormwater and tree canopy improvements and LID use (ranging from none to major, up to midblock connections in Rose Hill) Stormwater Improvements along 120th Ave NE (ranging from streetscape-based to full street reconstruction to reduce on-site demands) Green building standards (ranging from no incorporation to incremental application of districtwide green building standards) examples include neighborhood parks and pea patches, neighborhood linear parks, and form-based code to create standards for pedestrian oriented public realm. 	<ul style="list-style-type: none"> Not yet developed 	<ul style="list-style-type: none"> Not yet developed 	<ul style="list-style-type: none"> Sound Transit WSDOT 	<ul style="list-style-type: none"> TBD - consistent with transportation 	<ul style="list-style-type: none"> The project is in early design phase associated with the preliminary alternative selection for the SEIS 	<ul style="list-style-type: none"> Update this cross plan review when more advanced station design information becomes available 	<ul style="list-style-type: none"> Identify capital projects for coordinated upgrades 	
Urban Forestry Plan	<ul style="list-style-type: none"> Tree retention and replacement policies or plans 	<ul style="list-style-type: none"> A tactical implementation plan to: <ul style="list-style-type: none"> Support the Sustainability Plan Distinguishes action items by department/division Develop annual work plans Track operations Inform funding strategies and implement them as opportunities arise. 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Parks Department Transportation Department CIP Green Kirkland Partnership IT/GIS Department City Forestry Account Planning and Building Department 	<ul style="list-style-type: none"> Policy and Action Summary: <ul style="list-style-type: none"> UF 6YWP 1.4 Quantify ecosystem benefits of public trees (for Surface Water) UF 6YWP 3.5 Develop tree planting programs (for private property) UF 6YWP 3.7 City/CIP private property development projects UF 6YWP 5.1 Establish a formal urban forest program framework UF 6YWP 5.2 Establish operating standards across divisions UF 6YWP 5.3 Develop annual work plans (for Surface Water Department) UF 6YWP 5.4 Develop annual reports to City council 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Washington Department of Natural Resources Grant King Conservation District Grant Ecology Grant Tree Rebate Ecology Tree Retention and Planting Credit Google (for heat effects study) 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> 6 Year Work Plan (2021-2026) 		<ul style="list-style-type: none"> Define policies and metrics to more clearly quantify the value of trees to gain flow control credits and otherwise support stormwater management and improve receiving water quality 	
Sustainability Master Plan	<ul style="list-style-type: none"> Measures and guidelines Policies Basin transfer potential 	<ul style="list-style-type: none"> A high level Master Plan that aims to: <ul style="list-style-type: none"> Protect and enhance water quality of Kirkland's streams, lakes, and wetlands Support the needs and priorities outlined in both the Kirkland Comprehensive Plan and Surface Water Master Plan. 	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Ecology WDFW Tribe USACE Stormwater Action Monitoring (SAM) Stormwater Outreach for Regional Municipalities (STORM) King County Flood District King Conservation District Regional NPDES permit coordinators group Lake Washington Watershed Salmon Recovery Council Parks Department CIP EarthCorps Forsters Sierra Club People for Climate Action - Kirkland Developers 	<ul style="list-style-type: none"> Action Summary: <ul style="list-style-type: none"> EV-1.1 - Continue NPDES permit compliance EV-1.2 - Identify and reduce pollutants of concern in impaired streams EV-1.3 - Assess and prioritize watersheds and actions that will improve water quality EV-1.4 - Fund fish passage culvert projects EV-2.2 - Develop action plans for SW retrofit and WQ management strategies EV-2.3 - Community involvement EV-3.2 - Replace aging SW infrastructure EV-4.1 - Evaluate SW Infrastructure capacity and address issues EV-4.2 - Construct flood reduction projects that occur more often than 10 yrs. EV-4.3 - Review development proposals for downstream flood impacts, require mitigation EV-10.2 - Support internal cross department planning to implement sustainable urban forestry strategies EV-10.3 - Develop and implement tree planting programs to increase tree canopy cover (public and private properties). 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Not applicable 	<ul style="list-style-type: none"> Yes - consistent with City Standards for Surface Water and Transportation. 	<ul style="list-style-type: none"> Ongoing 		<ul style="list-style-type: none"> Help update identified policies to provide clearer guidelines that support stormwater management and receiving water quality 		

Abbreviations/ Acronyms:
 CIP - Capital Improvement Projects
 Ecology - Washington State Department of Ecology
 IT/GIS - Information Technology and Geographical Information Systems
 LID - Low Impact Development
 NEPA - National Environmental Policy Act
 NPDES - National Pollutant Discharge Elimination System
 SEIS - Supplemental Environmental Impact Statement
 SEPA - State Environmental Policy Act

SWMP - Surface Water Master Plan
 USACE - United States Army Corps of Engineers
 WDFW - Washington Department of Fish and Wildlife
 WRISA - Water Resources Inventory Area
 WSDOT - Washington State Department of Transportation
 WQ - Water Quality

City of Kirkland Surface Water Master Plan Plan Crosswalk Discussion

July 20, 2021

Agenda

1. Plan Crosswalk Review Summary
2. Potential Areas for Coordination and Collaboration
3. Suggested Programmatic Strategies
 - a) Planning
 - b) Parks
 - c) Transportation

Plan Crosswalk Summary

Six Plans Reviewed (Responsible Dept. in Parentheses):

- *2015 Comprehensive Plan (Planning)*
- *2015 Transportation Master Plan (Transportation)*
- *2015 Parks, Recreation & Open Space Plan (PROS) (Parks)*
- *2021 NE 85th Street Station Area Plan (Planning)*
- *2021 Urban Forestry Plan (Planning)*
- *2020 Sustainability Master Plan (Planning)*

Plan Commonalities and Linkages with SWMP



What we heard from stakeholder interviews:

- 1. Kirkland staff are very appreciative of the cross-departmental collaboration and feel supported by their counterparts across the City.*
- 2. Urban forestry is important, but there is concern about piecemeal funding and SW as a funding source.*
- 3. Over 80% of Kirkland Parks are natural areas. The City has a huge deficit of recreational spaces (i.e., playfields).*
- 4. Advanced mitigation program and care of open spaces needs to be better coordinated. Funding and responsibilities are unclear.*
- 5. The Comp. Plan will be identifying areas to focus 2019-2044 projected housing and job targets. The City's smart growth policies will continue to see growth concentrated in urban centers (Totem Lake, Downtown, Station Area, etc) to preserve lower density neighborhoods and environmentally sensitive areas.*

Current Coordination and Collaboration



Planning & Development

- Urban Forester funding
- Policy development (NPDES)
- SW support



Parks and Community Services

- Retrofit planning
- Mitigation
- Green Kirkland funding support
- Natural resources support



Transportation

- SW Facility opportunity funding
- Coordination for pipe repair with overlay

Opportunities for Continuation, Review, & Improvements (in red)



Planning & Development

- Urban Forester funding
- Policy development (NPDES)
- SW support
- Policy development or clarification for advanced mitigation, SW management and role of trees, land use, development and redevelopment guidelines
- Urban forestry initiatives for SW



Parks and Community Services

- Retrofit planning
- Mitigation
- Green Kirkland funding support
- Natural resources support
- Review parks for SW opportunities



Transportation

- SW Facility opportunity funding
- Coordination for pipe repair with overlay
- Identification of excess ROW for SW opportunities
- Standardization of CIP naming conventions and elements across departments.

Planning and Development Strategies

Anticipated Outcome of Strategy in Red

Urban Forestry Initiatives (from Urban Forestry Plan)

1. Determine how to explicitly tie trees and their values to stormwater (funding justification). (**Study**)
2. Develop policies to retain ROW trees and reduce removals with development. (**Policy**)
3. Develop robust street tree planting program. (**Implementation Plan**)
4. Develop private tree planting programs. (**Implementation Plan**)
5. Develop public tree planting and establishment policies. (**Policy**)

General Policy Development

1. Update policies to provide clearer guidelines that support stormwater mgmt. and receiving water quality. (**Policies**)
2. Clarify policies on advanced mitigation responsibility after initial maintenance has ended. (**Policies**)
3. Determine constraints/opportunities for new development/redevelopment with regard to surface water management. (**Feasibility Study**)

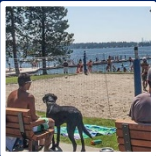


Planning & Development

- Urban Forester funding
- Policy development (NPDES)
- SW support
- Policy development or clarification for advanced mitigation, SW management and role of trees, land use, development and redevelopment guidelines
- Urban forestry initiatives for SW

Parks and Community Services Strategies

Anticipated Outcome of Strategy in Red



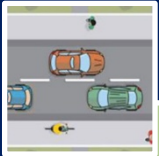
Parks and Community Services

- Retrofit planning
- Mitigation
- Green Kirkland funding support
- Natural resources support
- Review parks for SW opportunities

1. Consider how to better support tree canopy and restoration efforts in PW Open Spaces. **(Implementation Plan)**
2. Try to identify locations where PROS plan says new pocket parks are needed and retrofit is also needed. **(Analysis/Map)**
3. Assess opportunities for retrofits at Kirkland Parks. **(Analysis/Map)**
4. Assess opportunities for retrofit of SW facilities to potential park spaces (i.e., conversion from ponds to vaults with play surfaces on top). **(Analysis/Map)**

Transportation Strategies

Anticipated Outcome of Strategy in Red



Transportation

- SW Facility opportunity funding
- Coordination for pipe repair with overlay

1. Clarify SW policy on funding for stormwater elements of transportation projects. (**Policy**)
2. Coordinate advanced identification (3- 4 year program plan) of street overlay to assess and coordinate stormwater pipe repair and replacement needs. (**Early Notice**)
3. Evaluate transportation CIP to coordinate surface water improvements. (**Implementation Plan**)
4. Evaluate excess ROW for potential SW opportunities.
5. Standardize CIP naming conventions and elements for efficient coordination, planning, and project execution.

Things to keep in mind for SWMP:

1. Timing

- a) SWMP is ahead of Comprehensive Plan Update and Transportation Master Plan and other plans have similar timeframes as SWMP (PROS and Station Area)—preliminary projects or policies may be identified for later revision in subsequent plans.

2. Roles and Responsibilities

- a) Collaborative programmatic actions identified in SWMP may require joint staff and/or funding sources. Resources will need to be communicated and coordinated with respective departments.