

Surface Water Management Utility



Capital Improvement Program



**City of Kirkland
2013-2018 Capital Improvement Program**

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
SD 0047	Annual Replacement of Aging/Falling Infrastructure	180,000	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	1,200,000			
SD 0048	Cochran Springs / Lake Washington Blvd Crossing Enh.	232,200	340,000	667,100	450,000				1,457,100	1,457,100			
SD 0051*	Forbes Creek/KC Metro Access Road Culvert Enh.	260,200					688,000	370,700	1,058,700	1,058,700			
SD 0053*	Forbes Creek/Coors Pond Channel Grade Controls	115,400						164,700	164,700	164,700			
SD 0058*	Surface Water Sediment Pond Reclamation Phase II	585,400			497,600			164,700	735,600	735,600			
SD 0059*	Totem Lake Boulevard Flood Control Measures	115,500	1,048,000					1,014,800	1,350,800	1,014,800			336,000
SD 0067*	NE 129th Place/Juanita Creek Rockery Repair	922,000						223,300	223,300	223,300			
SD 0075~	Totem Lake Twin 42 Inch Culvert Replacement		4,347,000					4,347,000	4,347,000	3,093,800			
SD 0076#	NE 141st Street/11th Avenue NE Culvert Repair		181,500					181,500	181,500	181,500			
SD 0077#	Goat Hill Storm Drainage Repair							67,400	67,400	53,100			
SD 0078#	Billy Creek Ravine Stabilization Phase II								153,700	153,700			
SD 0079	Public Safety Building Stormwater Quality Demonstration								160,000	160,000			
SD 0081	Neighborhood Drainage Assistance Program (NDA)		50,000		50,000		50,000	425,000	1,125,000	1,125,000			
SD 8888*	Annual Streambank Stabilization Program							427,600	1,127,600	1,127,600			
SD 9999*	Annual Surface Water Infrastructure Replacement Program												
Total Funded Surface Water Management Utility Projects		2,410,700	5,241,300	1,809,100	1,638,000	1,588,000	1,638,000	1,588,000	13,502,400	9,528,000	3,638,400	0	336,000

Unfunded Projects:

Project Number	Project Title	Total
SD 0045^	Carillon Woods Erosion Control Measures	549,600
SD 0046#	Regional Detention in Forbes and Juanita Creek Basins	2,810,200
SD 0049#	Forbes Creek/108th Avenue NE Fish Passage Improvements	332,900
SD 0050#	NE 95th Street/126th Avenue NE Flood Control Measures	55,900
SD 0052^	Forbes Creek/Slater Avenue Embankment Stabilization	139,700
SD 0054#	Forbes Creek/BNSFRR Fish Passage Improvements	424,200
SD 0055	Forbes Creek / 98th Avenue NE Riparian Plantings	75,500
SD 0056^	Forbes Creek Ponds Fish Passage/Riparian Plantings	213,000
SD 0061^	Everest Park Stream Channel/Riparian Enhancements	1,095,500
SD 0062^	Stream Flood Control Measures at Kirkland Post Office	345,400
SD 0063^	Everest Creek-Slater Avenue at Alexander Street	830,300
SD 0068	128th Ave NE/NE 60th Street To NE 64th St Drainage Imp.	270,300
SD 0070	Juanita Creek Watershed Enhancement Study	50,000
SD 0074	Streambank Stabilization Program - NE 86th Street	640,200
SD 0080	Regional Decant and City Maintenance Facility	10,500,000
Subtotal Unfunded Surface Water Management Utility Projects		18,332,700
Funding Available from Annual Programs for Candidate Projects		2,252,600
Net Unfunded Surface Water Management Utility Projects		16,080,100

Notes:

- * = Modification in timing and/or cost (see Project Modification Schedule for greater detail)
- + = Moved from unfunded status to funded status
- ^ = Moved from funded status to unfunded status
- # = Annual Streambank Stabilization Program Project Candidates
- # = Annual Storm Drain Replacement Program Project Candidates
- Shaded year(s) = Previous timing
- Bold Italics = New projects**
- ~Project approved as new project by Council April 17, 2012

Prior Year(s) Funding (Budget to Actuals):

Project Number	Project Title	Budget	Actual	Balance
SD 0048	Cochran Springs / Lake Washington Blvd Crossing Enh.	180,000	0	180,000
SD 0051*	Forbes Creek/KC Metro Access Road Culvert Enh.	232,200	88,092	144,108
SD 0053*	Forbes Creek/Coors Pond Channel Grade Controls	260,200	84,147	176,053
SD 0058*	Surface Water Sediment Pond Reclamation Phase II	115,400	29,151	86,249
SD 0059*	Totem Lake Boulevard Flood Control Measures	585,400	379,640	205,760
SD 0067*	NE 129th Place/Juanita Creek Rockery Repair	115,500	0	115,500
SD 0075~	Totem Lake Twin 42 Inch Culvert Replacement	922,000	0	922,000
Total Prior Year(s) Funding (Budget to Actuals):		2,410,700	561,030	1,829,670



Funded
Surface Water Management
Utility Projects



**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0047 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE		
PROJECT LOCATION	Various locations	PROJECT START	PROJECT STATUS
		Ongoing	Existing Project

DESCRIPTION/JUSTIFICATION

The regular replacement of aging and/or failing Surface Water Utility infrastructure. The City will prioritize system improvements through the use of a video system that will investigate surface water piping. Following the prioritization, improvements will be identified for either reconstruction using City forces or through the normal contractor bidding process.

REASON FOR MODIFICATION (WHERE APPLICABLE)

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POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 100 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	0	1,200,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	200,000	200,000	200,000	200,000	200,000	200,000	1,200,000	0	1,200,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0047 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL REPLACEMENT OF AGING / FAILING INFRASTRUCTURE
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>During construction, traffic detours, delays and disruption should be anticipated. These system improvements could also entail the use of "trenchless" technology which could reduce impacts to the public. Design considerations will strive to minimize public disruption.</i>
Community economic impacts	<i>The degradation of surface water infrastructure without appropriate scheduled and proactive repair/reconstruction will increase overall community costs due to repeated maintenance requirements.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Failing surface water infrastructure could lead to roadway, stream bank or other property damage. This damage in turn could lead to a decreased community support level for City services and/or claims, accidents, or high cost failures.</i>
Responds to an urgent need or opportunity	<i>This project is an important recommendation in the Surface Water Comprehensive Plan and will limit unanticipated expenses from the Surface Water operating fund.</i>
Feasibility, including public support and project readiness	<i>Projects have yet to be identified, however the community has historically supported proactive system maintenance.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>The timely replacement of failing infrastructure is consistent with Governmental Accounting Standards Board (GASB) Statement 34 and the Growth Management Act.</i>
Benefits to other capital projects	<i>Unknown specifics at this point, however, the project will reduce potential failure of streets or other above ground facilities if pipes fail while also reducing materials and downstream sedimentation that currently enter the drainage system from broken, separated, or failing pipes.</i>
Implications of deferring the project	<i>Increased maintenance commitment, potential system collapse, sedimentation downstream of failed pipe.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0048 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	COCHRAN SPRINGS / LAKE WASHINGTON BLVD CROSSING ENHANCEMENT		
PROJECT LOCATION	3700 Block of Lake Washington Boulevard at Cochran Springs Creek	PROJECT START	PROJECT STATUS
		2012	Existing Project

DESCRIPTION/JUSTIFICATION

Sedimentation deposits in the channel downstream of this culvert results in backwater conditions and sedimentation presenting an ongoing maintenance task for City crews. The backwater condition impedes the culvert's capacity to convey large peak events. Additionally, sediment deposition downstream of Lake Washington Boulevard increases the risk of overbank flooding water in the Yarrow Bay business park. Improving fish passage at the culvert will allow access to approximately 375 feet of breeding and rearing habitat. Increasing the culvert's flow capacity will reduce the risk of flooding on Lake Washington Boulevard.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Surface Water Comprehensive Plan <i>CO-01</i>	Budget	\$180,030	Current Revenue 100 %
	Actual		Reserve 0 %
	Balance		Grants 0 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 0 %	

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	123,500	0	72,200	85,000	128,500	0	0	285,700	0	409,200
In-House Professional Svcs.	56,500	0	36,000	40,700	64,400	0	0	141,100	0	197,600
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	231,800	541,400	257,100	0	0	1,030,300	0	1,030,300
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	180,000	0	340,000	667,100	450,000	0	0	1,457,100	0	1,637,100
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0048 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	COCHRAN SPRINGS / LAKE WASHINGTON BLVD CROSSING ENHANCEMENT
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>The preferred alternative for this project would require closure and detours on Lake Washington Boulevard which handles approximately 25,000 vehicles per day including transit, residential, commuting traffic, and business services. It is anticipated that the installation of the bottomless culvert would require closure of approximately two weeks and require a dedicated detour.</i>
Community economic impacts	<i>The closure during construction will have a temporary economic impact to drivers and possibly surrounding businesses. The long-term impact of continued sedimentation would contribute to seasonal flooding of the Boulevard which would have disruptive impacts to drivers.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Cochran Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>The preferred alternative will require significant permitting, community information, and a significant detour/traffic control plan in order to be successful.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Continued sedimentation, loss of habitat, and potential flooding of Lake Washington Boulevard and surrounding commercial properties.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Lakeview</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-40% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0051 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / KING COUNTY METRO ACCESS ROAD CULVERT ENHANCEMENT		
PROJECT LOCATION	Adjacent to the 11100 block of Forbes Creek Drive at Forbes Creek	PROJECT START	PROJECT STATUS
		2006	Modified Project

DESCRIPTION/JUSTIFICATION

An existing 12-foot-wide bottomless arch culvert conveys Forbes Creek under a King County sewer easement access road, approximately 145 yards upstream of Forbes Creek Drive and is in need of repair. The stream is eroding under the culvert footings, a hanging outfall at the downstream end of the culvert has created a fish blockage and the gabion walls on the upstream end of the culvert are collapsing. Corrective measures include the installation of log-boulder grade controls to promote channel aggradations up to and inside the culvert, placement of aggraded gravel to protect the eroding footings, repair to the gabion wall and stabilization of the adjacent streambanks.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project re-start date changed from 2013 to 2017 due to State permitting challenges and timelines. Project cost changed from \$965,900 to \$1,290,900.

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Surface Water Comprehensive Plan <i>FO-05</i>	Budget	\$232,200	Current Revenue 100 %
	Actual	\$88,092	Reserve 0 %
	Balance	\$144,108	Grants 0 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 0 %	

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	25,000	0	0	0	0	0	0	0	0	25,000
In-House Professional Svcs.	30,000	0	0	0	0	0	0	0	0	30,000
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	177,200	0	0	0	0	688,000	370,700	1,058,700	0	1,235,900
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	232,200	0	0	0	0	688,000	370,700	1,058,700	0	1,290,900
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0051 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / KING COUNTY METRO ACCESS ROAD CULVERT ENHANCEMENT
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None. This project is located outside of the public right of way and is not adjacent to any private residents or commercial activity.</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will stabilize the existing footings that support an existing 12' culvert, improve fish passage, and stabilize the bank on the upstream end of the culvert that if unchecked could fail at a future date.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Possible erosion leading to failure of existing facilities; failure of King County Sewermain.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0053 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS		
PROJECT LOCATION	South side of Forbes Creek Drive between 115th Ct NE and 113th Ct NE	PROJECT START	PROJECT STATUS
		2006	Modified Project

DESCRIPTION/JUSTIFICATION

Existing structures in the stream have created barriers to fish passage while channel downcutting continues. Install grade control structures, cut down height of structures and install habitat structures. These improvements will raise the channel, improve the fish passage and improve the instream habitat.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project re-start date changed from 2013 to 2018 due to State permitting issues and coordination with SD 0051. Project cost changed from \$1,227,200 to \$1,621,000

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Surface Water Comprehensive Plan <i>FO-07</i>	Budget	\$260,200	Current Revenue 100 %
	Actual	\$84,147	Reserve 0 %
	Balance	\$176,053	Grants 0 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 0 %	

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	45,000	0	0	0	0	0	94,100	94,100	230,700	369,800
In-House Professional Svcs.	30,000	0	0	0	0	0	70,600	70,600	95,300	195,900
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	185,200	0	0	0	0	0	0	0	870,100	1,055,300
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	260,200	0	0	0	0	0	164,700	164,700	1,196,100	1,621,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0053 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / COORS POND CHANNEL GRADE CONTROLS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None; project is not on public right of way, nor near any existing buildings.</i>
Community economic impacts	<i>Reduces downstream sediment load and thus reduces need for City forces to conduct routine maintenance.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0058 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	SURFACE WATER SEDIMENT POND RECLAMATION (PHASE II)		
PROJECT LOCATION	Southwest corner of the intersection of NE 128th St and 100th Ave NE	PROJECT START	PROJECT STATUS
		2012	Modified Project

DESCRIPTION/JUSTIFICATION

Phase I of the Sediment Pond reclamation project took place in 2004/2005. Phase II will consider flood plain development as an alternative. Project may include additional planting along Juanita Creek. Review potential for converting pond into a flood plain, improve riparian understory vegetation. Plant trees and understory shrubs on City-owned parcel downstream of NE 128th Street. Planting will provide shading for the stream, which will reduce water temperature.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project phased construction year moved from 2013 to 2015 due to State permitting challenges and timelines. Project cost changed from \$832,800 to \$851,000 due to updated cost estimate.

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Surface Water Comprehensive Plan	Budget	\$115,400	Current Revenue 100 %
	Actual	\$29,151	Reserve 0 %
	Balance	\$86,249	Grants 0 %
			Other Sources 0 %
		Debt 0 %	Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	72,100	0	0	85,400	36,100	0	0	121,500	0	193,600
In-House Professional Svcs.	43,300	0	0	41,300	17,300	0	0	58,600	0	101,900
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	370,900	184,600	0	0	555,500	0	555,500
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	115,400	0	0	497,600	238,000	0	0	735,600	0	851,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0058 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	SURFACE WATER SEDIMENT POND RECLAMATION (PHASE II)
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None; project is located within public easements off of the right of way.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Juanita Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0059 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	TOTEM LAKE BOULEVARD FLOOD CONTROL MEASURES		
PROJECT LOCATION	Totem Lake Boulevard between 120th Avenue NE and 124th Avenue NE	PROJECT START	PROJECT STATUS
		2007	Modified Project

DESCRIPTION/JUSTIFICATION

Totem Lake Boulevard has a history of flooding during mid to large storm events. Evaluation of the storm drainage system previously completed under this project has identified options for implementing flood control improvements. The improvements include emergency pumping and removal of sediment and vegetation along the conveyance channel. This work will reduce the frequency and magnitude of flooding on Totem Lake Boulevard.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project cost increased from \$585,400 to \$1,936,200 due to updated cost estimate for required work efforts (sediment and vegetation removal). Project completion date moved to 2014 for coordination with SD 0075.

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Surface Water Comprehensive Plan	Budget	\$585,400	Current Revenue 75 %
	Actual	\$379,640	Reserve 0 %
	Balance	\$205,760	Grants KC (\$336,000) 25 %
			Other Sources 0 %
		Debt 0 %	
		Unfunded 0 %	

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	261,400	277,800	139,700	0	0	0	0	417,500	0	678,900
In-House Professional Svcs.	59,000	25,000	69,900	0	0	0	0	94,900	0	153,900
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	265,000	0	838,400	0	0	0	0	838,400	0	1,103,400
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	585,400	302,800	1,048,000	0	0	0	0	1,350,800	0	1,936,200
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0059 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	TOTEM LAKE BOULEVARD FLOOD CONTROL MEASURES
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Depending on the design of the preferred alternative, any improvements along Totem Lake Boulevard will be significant to the traveling public, transit, emergency services, and the surrounding businesses. Significant public information will be incorporated into the design process.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Juanita Creek is not addressed. Available fish habitat could be enhanced with the project.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the surrounding businesses and traveling public will be addressed. This project presents significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Totem Lake</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0067 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 129TH PLACE/JUANITA CREEK ROCKERY REPAIR		
PROJECT LOCATION	NE 129th Place east of 100th Avenue NE	PROJECT START	PROJECT STATUS
		2012	Modified Project

DESCRIPTION/JUSTIFICATION

Project will evaluate the replacement and/or repair of streambank rockery damaged during the December 2007 Storm, to include the possible replacement of the culvert crossing at NE 129th Place.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project construction year changed from 2013 to 2015 due to State permitting requirements and timelines; no change in total Project cost.

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)		
Surface Water Comprehensive Plan	Budget	\$115,500	Current Revenue	100 %
	Actual		Reserve	0 %
	Balance		Grants	0 %
			Other Sources	0 %
		Debt	0 %	
		Unfunded	0 %	

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	86,700	0	0	10,500	0	0	0	10,500	0	97,200
In-House Professional Svcs.	28,800	0	0	9,600	0	0	0	9,600	0	38,400
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	203,200	0	0	0	203,200	0	203,200
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	115,500	0	0	223,300	0	0	0	223,300	0	338,800
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0067 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 129TH PLACE/JUANITA CREEK ROCKERY REPAIR
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Minor. Work can be accomplished by closing one lane of a residential collector street.</i>
Community economic impacts	<i>Project will maintain stability of the street and associated access.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will stabilize streambank, thus preventing erosion.</i>
Responds to an urgent need or opportunity	<i>Rockery was damaged by a large rainstorm and now is vulnerable to further damage.</i>
Feasibility, including public support and project readiness	<i>Project will require extensive local State and Federal permitting.</i>
Conforms to legal or contractual obligations	<i>Protects City infrastructure.</i>
Responds to state and/or federal mandate	<i>Project may include minor habitat improvements for salmon and trout and is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified</i>
Implications of deferring the project	<i>Continued erosion may threaten stability of the street and will deliver fine sediment to the stream.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>Not applicable</i> Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0075 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	TOTEM LAKE TWIN 42-INCH CULVERT REPLACEMENT		
PROJECT LOCATION	Totem Lake Blvd and 120th Avenue NE	PROJECT START	PROJECT STATUS
		2012	New Project

DESCRIPTION/JUSTIFICATION

This project will replace two segments of 42-inch twin corrugated metal pipe (cmp) culverts at approximately 350 lineal feet in length for each segment (700 lineal feet total). The culverts are 40 years old and have exceeded their useful life. The pipe material has deteriorated and has failed at two locations causing sink holes. The culverts are full of sediment and cannot meet flow requirements. The twin culverts will be replaced with one large diameter culvert that will be designed to meet fish passage requirements. This project will involve acquiring a permanent maintenance easement where the culvert runs through private property and obtaining all necessary permits. This project was approved by City Council at their regular meeting of April 17, 2012.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)	
Current service and/or functional objectives	Current Revenue	29 %
	Reserve (\$3,093,800)	71 %
	Grants	0 %
	Other Sources	0 %
	Debt	0 %
	Unfunded	0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	641,000	150,000	0	0	0	0	0	150,000	0	791,000
In-House Professional Svcs.	40,000	40,000	0	0	0	0	0	40,000	0	80,000
Land Acquisition	241,000	531,000	0	0	0	0	0	531,000	0	772,000
Construction	0	3,626,000	0	0	0	0	0	3,626,000	0	3,626,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	922,000	4,347,000	0	0	0	0	0	4,347,000	0	5,269,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0075 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	TOTEM LAKE TWIN 42-INCH CULVERT REPLACEMENT
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Depending on design, any improvements along Totem Lake Blvd will be significant to the traveling public, transit, emergency services, and the surrounding businesses. Significant public information will be incorporated into the design process.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Juanita Creek is not addressed. Available fish habitat could be enhanced with the project.</i>
Responds to an urgent need or opportunity	<i>The project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the surrounding businesses and traveling public will be addressed. This project presents significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>N/A</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Totem Lake, Kingsgate</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: 40% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0076 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 141ST STREET/111TH AVENUE NE CULVERT HEADWALL REPAIR		
PROJECT LOCATION	NE 141st Street and 111th Avenue NE	PROJECT START	PROJECT STATUS
		2013	New Project

DESCRIPTION/JUSTIFICATION

An existing 48" storm pipe has partially filled with sediment and the reduced flow capacity has created backwater conditions at the inlet resulting in channel aggradation, erosion and undermining of adjacent trees, with partial structural failure of the inlet headwall. Fish were observed in the downstream reach and WDFW permitting will likely be required.

REASON FOR MODIFICATION (WHERE APPLICABLE)

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POLICY BASIS	METHOD OF FINANCING (%)
Current service and/or functional objectives	Current Revenue 0 %
	Reserve 100 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	38,100	0	0	0	0	0	38,100	0	38,100
In-House Professional Svcs.	0	17,800	0	0	0	0	0	17,800	0	17,800
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	125,600	0	0	0	0	0	125,600	0	125,600
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	181,500	0	0	0	0	0	181,500	0	181,500
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0076 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 141ST STREET/111TH AVENUE NE CULVERT HEADWALL REPAIR
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Little to none.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>Helps to prevent flooding.</i>
Feasibility, including public support and project readiness	<i>Project is feasible and will require minimal permitting.</i>
Conforms to legal or contractual obligations	<i>Project will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>N/A.</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Possible flooding and drainage issues.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Finn Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0077 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	GOAT HILL STORM DRAINAGE REPAIR		
PROJECT LOCATION	Between NE 117th Place and 91st Place NE (hillside drainage channel)	PROJECT START	PROJECT STATUS
		2014	New Project

DESCRIPTION/JUSTIFICATION			
Stream channel delivers sediment to the bottom of the slope where it impacts existing drainage structures and periodically overflows onto private property during high flow events. Project will evaluate and implement the best drainage alternatives including, but not limited to a tight-line stream channel and installation of a drainage structure for ease of maintenance.			

REASON FOR MODIFICATION (WHERE APPLICABLE)			

POLICY BASIS	METHOD OF FINANCING (%)	
Current service and/or functional objectives	Current Revenue	100 %
	Reserve	0 %
	Grants	0 %
	Other Sources	0 %
	Debt	0 %
	Unfunded	0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	0	71,700	0	0	0	0	71,700	0	71,700
In-House Professional Svcs.	0	0	18,400	0	0	0	0	18,400	0	18,400
Land Acquisition	0	0	7,700	0	0	0	0	7,700	0	7,700
Construction	0	0	55,900	0	0	0	0	55,900	0	55,900
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	0	153,700	0	0	0	0	153,700	0	153,700
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0077 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	GOAT HILL STORM DRAINAGE REPAIR
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Little to none.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>Helps to prevent flooding.</i>
Feasibility, including public support and project readiness	<i>Project is feasible and will require minimal permitting.</i>
Conforms to legal or contractual obligations	<i>Project will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>N/A</i>
Benefits to other capital projects	<i>N/A</i>
Implications of deferring the project	<i>Possible flooding and drainage issues.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Finn Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0078 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	BILLY CREEK RAVINE STABILIZATION PHASE 2		
PROJECT LOCATION	87th Court NE	PROJECT START	PROJECT STATUS
		2014	New Project

DESCRIPTION/JUSTIFICATION	
Construct additional erosion control measures in an upper reach of Billy Creek that has experienced severe erosion from a failed drainage pipe. Phase I was constructed in winter of 2011/12 and completed to adjacent property where easement is required. Phase 2 will complete the original design as negotiations with property owner are completed.	

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 21 % Reserve (\$53,100) 79 % Grants 0 % Other Sources 0 % Debt 0 % Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	0	11,100	0	0	0	0	11,100	0	11,100
In-House Professional Svcs.	0	0	5,200	0	0	0	0	5,200	0	5,200
Land Acquisition	0	0	5,600	0	0	0	0	5,600	0	5,600
Construction	0	0	45,500	0	0	0	0	45,500	0	45,500
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	0	67,400	0	0	0	0	67,400	0	67,400
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0078 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	BILLY CREEK RAVINE STABILIZATION PHASE 2
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Little to none.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>Helps to prevent flooding.</i>
Feasibility, including public support and project readiness	<i>Project is feasible and will require minimal permitting.</i>
Conforms to legal or contractual obligations	<i>Project will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>N/A</i>
Benefits to other capital projects	<i>N/A</i>
Implications of deferring the project	<i>Possible flooding and drainage issues.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Finn Hill, North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0079 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	PUBLIC SAFETY BUILDING STORMWATER TREATMENT/REUSE DEMONSTRATION PROJECT		
PROJECT LOCATION	11831 120th Avenue NE	PROJECT START	PROJECT STATUS
		2013	New Project

DESCRIPTION/JUSTIFICATION

Provide a water quality treatment component to the City of Kirkland Public Safety Building project. The City plans to renovate and existing structure for use as new Police Department, Court and Jail. The scope of work does not trigger storm water treatment permitting requirements; however, the opportunity to showcase innovative and effective ways to treat and reuse storm water is possible with this project. The project will install a 10,000 gallon cistern to collect roof water runoff for reuse as landscape irrigation, as well as providing storm filters and a rain garden for treatment of parking lot runoff.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Other Plan	Current Revenue 0 % Reserve 100 % Grants 0 % Other Sources 0 % Debt 0 % Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	25,000	0	0	0	0	0	25,000	0	25,000
In-House Professional Svcs.	0	5,000	0	0	0	0	0	5,000	0	5,000
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	130,000	0	0	0	0	0	130,000	0	130,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	160,000	0	0	0	0	0	160,000	0	160,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0079 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	PUBLIC SAFETY BUILDING STORMWATER TREATMENT/REUSE DEMONSTRATION PROJECT
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Minimal</i>
Community economic impacts	<i>Will provide a showcase for innovative and effective methods of water quality treatment.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Improvements to surface water quality will have a significantly positive environmental effect.</i>
Responds to an urgent need or opportunity	<i>This project provides the opportunity to show the public what environmental improvements we are doing with our own projects.</i>
Feasibility, including public support and project readiness	<i>This project lends to water quality improvements and reuse beyond what is required.</i>
Conforms to legal or contractual obligations	<i>NA</i>
Responds to state and/or federal mandate	<i>N/A</i>
Benefits to other capital projects	<i>Provides aesthetic and environmental improvements to the Public Safety Building project.</i>
Implications of deferring the project	<i>Must meet timeline of the Public Safety Building project.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Totem Lake</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0081 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NEIGHBORHOOD DRAINAGE ASSISTANCE PROGRAM (NDA)		
PROJECT LOCATION	City-wide	PROJECT START	PROJECT STATUS
		2013	New Project

DESCRIPTION/JUSTIFICATION

Design and construct small-scale flooding solution occurring outside the public right of way. Projects qualifying for assistance include those situation that are too small to rank highly in the regular Surface Water CIP, will benefit several homes or businesses while serving a general public benefit, and are primarily caused by the cumulative impacts of upstream development. Individual projects will be evaluated and those that qualify will be prioritized. Staff will produce a report each year summarizing the number type and priority of problems that qualify for NDA fixes, and a list of NDA projects completed in the previous year.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Surface Water Master Plan	Current Revenue 0 % Reserve 100 % Grants 0 % Other Sources 0 % Debt 0 % Unfunded 0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	8,000	0	8,000	0	8,000	0	24,000	0	24,000
In-House Professional Svcs.	0	4,000	0	4,000	0	4,000	0	12,000	0	12,000
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	38,000	0	38,000	0	38,000	0	114,000	0	114,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	50,000	0	50,000	0	50,000	0	150,000	0	150,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0081 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NEIGHBORHOOD DRAINAGE ASSISTANCE PROGRAM (NDA)
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Minimal</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>Improvements to surface water quality will have a significantly positive environmental effect.</i>
Responds to an urgent need or opportunity	<i>This project provides the opportunity to show the public what environmental improvements we are doing with our own projects.</i>
Feasibility, including public support and project readiness	<i>To be determined</i>
Conforms to legal or contractual obligations	<i>Projects will be designed and constructed per professional and legal guidelines.</i>
Responds to state and/or federal mandate	<i>N/A</i>
Benefits to other capital projects	<i>N/A</i>
Implications of deferring the project	<i>Continued degradation of surface water.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 8888 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL STREAMBANK STABILIZATION PROGRAM		
PROJECT LOCATION	City-wide	PROJECT START	PROJECT STATUS
		Ongoing	Modified Project

DESCRIPTION/JUSTIFICATION

Goals of the streambank stabilization program are to provide the public benefits of improved water quality and decreased flooding by stabilizing and restoring stream channels which may in many cases be located on private property. Most common stabilization methods will be upstream detention and in-stream stabilization/restoration using bioengineering techniques. Candidate projects under this Annual Program include: SD 0063 - Everest Creek - Slater Ave at Alexander St, SD 0061 - Everest Park Stream Channel/Riparian Enhancements, SD 0045 - Carillon Woods Erosion Control Measures, SD 0062 - Street Flood Control Measures at Kirkland Post Office, SD 0056 - Forbes Creek Ponds Fish Passage/Riparian Plantings and SD 0052 - Forbes Creek/ Slater Ave Embankment Stabilization.

REASON FOR MODIFICATION (WHERE APPLICABLE)

An updated priority ranking of the individual projects within the description above. Project timing and costs have been updated. Total project cost changed from \$835,400 to \$1,125,000, which reflects available remaining funds after funded projects are identified.

POLICY BASIS

Surface Water Comprehensive Plan

METHOD OF FINANCING (%)

Current Revenue	100 %
Reserve	0 %
Grants	0 %
Other Sources	0 %
Debt	0 %
Unfunded	0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	350,000	350,000	425,000	1,125,000	0	1,125,000
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	350,000	350,000	425,000	1,125,000	0	1,125,000
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 8888 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL STREAMBANK STABILIZATION PROGRAM
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Variable - most of the project will be located off City streets.</i>
Community economic impacts	<i>Would protect adjacent and downstream properties from erosion and/or flood damage.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would improve water quality and reduce potential for flooding.</i>
Responds to an urgent need or opportunity	<i>Project on private property may in many cases provide more cost effective solutions to City-wide problems than solutions constructed entirely within City right of way.</i>
Feasibility, including public support and project readiness	<i>Most projects will require easements from private property owners, and will require Fisheries and Corps of Engineers permits in addition to SEPA review.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Consistent with the intent of the Puget Sound Water Quality Management Plan.</i>
Benefits to other capital projects	<i>Would protect and improve the effectiveness of publicly owned surface water infrastructure by reducing sedimentation and flooding.</i>
Implications of deferring the project	<i>Continued erosion that may cause sedimentation and flood damage.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 9999 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL SURFACE WATER INFRASTRUCTURE REPLACEMENT PROGRAM		
PROJECT LOCATION	City-wide	PROJECT START	PROJECT STATUS
		Ongoing	Modified Project

DESCRIPTION/JUSTIFICATION

Goals of the storm drain replacement program are to provide the public benefits of improved storm water conveyance. Individual projects will come from the prioritized list within the Surface Water Master Plan and through urgent maintenance needs as they may arise. Candidate projects under this Annual Program include: SD 0075 - Totem Lake Twin 42-Inch Culvert Replacement, SD 0046 - Regional Detention in Forbes and Juanita Basins, SD 0049 - Forbes Creek/108th Ave NE Fish Passage Improvements, SD 0050 - NE 95th St/126th Ave NE Flood Control Measures, SD 0054 - Forbes Creek/Cross Kirkland Corridor Fish Passage Improvements, SD 0076 - NE 141st Street/111th Avenue NE Culvert Headwall Repair, SD 0077 - Goat Hill Storm Drainage Repair, and SD 0078 - Billy Creek Stabilization Phase II.

REASON FOR MODIFICATION (WHERE APPLICABLE)

A new Project Title to more fully encompass the nature of the planned work. An updated priority ranking of the individual projects within the description above.

POLICY BASIS

Surface Water Comprehensive Plan

METHOD OF FINANCING (%)

Current Revenue	100 %
Reserve	0 %
Grants	0 %
Other Sources	0 %
Debt	0 %
Unfunded	0 %

CAPITAL COSTS	Prior Year(s)	2013	2014	2015	2016	2017	2018	2013-2018 TOTAL	Future Year(s)	Total Project
Planning/Design/Engineering	0	0	0	0	0	0	0	0	0	0
In-House Professional Svcs.	0	0	0	0	0	0	0	0	0	0
Land Acquisition	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	350,000	350,000	427,600	1,127,600	0	1,127,600
Computer Hardware/Software	0	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0	0
Other Services	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	350,000	350,000	427,600	1,127,600	0	1,127,600
NEW MAINT. AND OPER.	0	0	0	0	0	0	0	0	0	0
NEW FTE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 9999 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	ANNUAL SURFACE WATER INFRASTRUCTURE REPLACEMENT PROGRAM
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Minor. Construction access would be via a private street.</i>
Community economic impacts	<i>Little to none.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Failing surface water infrastructure could lead to roadway, stream bank or other property damage. This damage in turn could lead to a decreased community support level for City services and/or claims, accidents, or high cost failures.</i>
Responds to an urgent need or opportunity	<i>The projects arising out of this program will be identified through the priority list within the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>Projects are feasible and will require minimal permitting.</i>
Conforms to legal or contractual obligations	<i>Projects will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Not applicable</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Increased maintenance commitment, potential system collapse, sedimentation downstream of failed pipe.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>No</i> Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: 20 - 50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

Unfunded
Surface Water Management
Utility Projects



**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0045 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	CARILLON WOODS EROSION CONTROL MEASURES		
PROJECT LOCATION	Carillon Woods, NE 55th Street at 105th Avenue NE	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION	
<p>The new Carillon Woods (formerly the King County Water District #1 property) requires further evaluation and the possible establishment of erosion control measures to handle the re-direction of ground water into an established drainage basin situated on the west side of the property. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.</p>	

REASON FOR MODIFICATION (WHERE APPLICABLE)
Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>CA-1</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	142,800
In-House Professional Svcs.	69,100
Land Acquisition	0
Construction	337,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	549,600
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0045 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	CARILLON WOODS EROSION CONTROL MEASURES
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None; project entirely within Park area that is currently off limits to the public.</i>
Community economic impacts	<i>Depending on solution will reduce maintenance costs.</i>
Health and safety, environmental, aesthetic, or social effects	<i>If allowed to go unchecked, existing spring water could lead to erosion and/or other environmental issues.</i>
Responds to an urgent need or opportunity	<i>The results of removing this source of water for the Point communities is not yet known. Monitoring will establish the need and scope of the improvements.</i>
Feasibility, including public support and project readiness	<i>Design/solution is pending.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>A more monitored and consistent water supply was required for the Point communities; the resulting surplus of ground water from these springs will revert to natural conditions. Alternative solutions will need to meet the Department of Ecology requirements.</i>
Benefits to other capital projects	<i>None at this time.</i>
Implications of deferring the project	<i>Unknown at this time.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Central Houghton</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0046 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	REGIONAL DETENTION IN FORBES AND JUANITA CREEK BASINS		
PROJECT LOCATION	Various locations along Forbes and Juanita Creeks	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

The establishment of in-line ponds within both Forbes and Juanita Creeks to provide for detention, sediment control and flood prevention in connection with both public construction and private development activities. Siting of these facilities will be dependent on development patterns and will require that staff monitor private and public development. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>CW-1</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	747,800
In-House Professional Svcs.	358,700
Land Acquisition	0
Construction	1,703,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	2,810,200
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0046 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	REGIONAL DETENTION IN FORBES AND JUANITA CREEK BASINS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Depending on actual siting of facilities.</i>
Community economic impacts	<i>Detention will improve overall drainage system by reducing flooding, erosion and overall degradation of the system. Partnership opportunities will be available that could allow private development and public resources to coordinate and reduce overall cost to system improvements.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Depending on actual siting of facilities.</i>
Responds to an urgent need or opportunity	<i>Continued development and the reduction of open space limits and or eliminates the opportunity to reduce surface water flows. Current standards can only be incorporated during redevelopment and or new construction – this project will allow implementation of community goals as outlined in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>Depending on actual siting of facilities.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Detention standards are mandated and enforced by the Department of Ecology along with other regulatory agencies; drainages into Lake Washington are critical in the overall efforts to enhance fish and environmental habitat.</i>
Benefits to other capital projects	<i>Depending on actual siting of facilities.</i>
Implications of deferring the project	<i>Continued degradation of drainage system and potential loss of opportunities for retrofit of outdated systems.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: will be site dependent <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0049 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS		
PROJECT LOCATION	108th Ave NE, between Forbes Creek Drive and NE 108th Street at Forbes Creek	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

108th Avenue NE is elevated above Forbes Creek and the adjacent wetlands. Curbs on both sides of the road appear to prevent street runoff from draining to the stream resulting in standing water on the road during storm events. The existing dual 36-inch corrugated metal pipe culverts also have created a barrier to fish passage. The culverts are located in a depositional area of Forbes Creek resulting in one of the two culverts filling with sediment, restricting fish passage. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>FO-01</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	86,500
In-House Professional Svcs.	41,800
Land Acquisition	0
Construction	204,600
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	332,900
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0049 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>During construction, anticipated to last 2-3 weeks, alternate routes for the residents living north of Forbes Creek along 108th Ave NE will be required.</i>
Community economic impacts	<i>Overall maintenance costs will be reduced.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of Forbes Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>Project timing will be coordinated with other utility projects (WA 0101 and SS 0062).</i>
Implications of deferring the project	<i>Continued flooding events.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-40% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0050 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 95TH STREET / 126TH AVENUE NE FLOOD CONTROL MEASURES		
PROJECT LOCATION	9400 block of 126th Ave NE	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

Water in a tributary to Forbes Creek backs up under NE 95th Street during storm events causing minor flooding within the crawl space of a home located at 9432 126th Ave NE. The most cost-effective solution to alleviate the flooding is to construct a berm that extends along the low lying area adjacent to the affected property. The length of the berm must be long enough to ensure that water will not flow around it. This is a candidate project included as a component of the Annual Storm Drain Replacement Program Project, SD 9999.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>FO-03</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	21,300
In-House Professional Svcs.	6,000
Land Acquisition	0
Construction	28,600
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	55,900
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0050 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 95TH STREET / 126TH AVENUE NE FLOOD CONTROL MEASURES
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>This project will possibly require traffic detours and or delays during construction periods anticipated to last two to three weeks.</i>
Community economic impacts	<i>The improvements will allow City crews to reduce the required maintenance efforts.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this tributary to Forbes Creek is not addressed. Available fish habitat would be enhanced with the projects.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects have been identified in the Forbes Creek basin, this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued localized flood events are possible.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 20-30% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0052 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / SLATER AVENUE EMBANKMENT STABILIZATION		
PROJECT LOCATION	Driveway crossing at 10041 Slater Ave NE	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

Private stream crossing is deteriorating. Additional deterioration of culvert may result in fish passage impediment. Replacement crossing shall consist of a bottomless arch culvert. This project will reduce the risk of fish passage impediment and/or flooding caused by the current deteriorated crossing. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>FO-06</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	36,300
In-House Professional Svcs.	17,600
Land Acquisition	0
Construction	85,800
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	139,700
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0052 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / SLATER AVENUE EMBANKMENT STABILIZATION
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Driveway access to one private resident.</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will reduce the fish impediment along this stretch of Forbes Creek.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the resident will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Erosion and flooding continue.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0054 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / CROSS KIRKLAND CORRIDOR FISH PASSAGE IMPROVEMENTS		
PROJECT LOCATION	Forbes Creek crossing under the Cross Kirkland Corridor behind the business located at 10830 117th Ave NE	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

The grade of the existing culverts passing under a former railroad spur and under the Cross Kirkland Corridor tracks is too great creating an impediment to fish passage. Restore open channel under the former railroad spur and replace the culvert under Cross Kirkland Corridor track. This improvement will improve fish passage to upstream habitat and is a candidate project included as a component of the Annual Storm Drain Replacement Project, SD 9999.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 9999 - Annual Storm Drain Replacement Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	110,200
In-House Professional Svcs.	53,300
Land Acquisition	0
Construction	260,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	424,200
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0054 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / CROSS KIRKLAND CORRIDOR FISH PASSAGE IMPROVEMENTS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Permitting and coordination will be required with the Cross Kirkland Corridor. No anticipated public impacts.</i>
Community economic impacts	<i>Would reduce the potential for property damage, localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Improvements to Forbes Creek fish habitat are enhanced with these improvements.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input checked="" type="checkbox"/> Project provides new capacity. Amount of new capacity provided: approximately 30-50% <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0055 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / 98TH AVENUE NE RIPARIAN PLANTINGS		
PROJECT LOCATION	Along Forbes Creek, upstream from the 98th Ave NE bridge	PROJECT START	PROJECT STATUS
		Undetermined	Existing Project

DESCRIPTION/JUSTIFICATION	
Riparian vegetation is lacking along Forbes Creek, upstream from the 98th Ave NE bridge. Plant trees and understory shrubs between the bridge and 550 feet upstream of the bridge. Planting will provide shading for the stream, which will reduce water temperature impacts.	

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	0
In-House Professional Svcs.	12,800
Land Acquisition	0
Construction	62,700
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	75,500
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0055 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK / 98TH AVENUE NE RIPARIAN PLANTINGS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0056 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK PONDS FISH PASSAGE / RIPARIAN PLANTINGS		
PROJECT LOCATION	Backyard of the private residence located at 12055 NE 100th St	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

Area surrounding two in-line ponds is poorly vegetated, resulting in heating of standing water. Trash rack grate at pond outlet prevents fish passage. Remove or replace trash rack grate. Plant riparian vegetation in and around ponds. These improvements will reduce temperatures and improve fish passage in Forbes Creek. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>FO-11</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	55,300
In-House Professional Svcs.	26,800
Land Acquisition	0
Construction	130,900
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	213,000
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0056 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	FORBES CREEK PONDS FISH PASSAGE / RIPARIAN PLANTINGS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>A number of projects are identified in the Forbes Creek basin; this is one element of those improvements.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0061 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	EVEREST PARK STREAM CHANNEL / RIPARIAN ENHANCEMENTS		
PROJECT LOCATION	Everest Park, adjacent to 10th Street South	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION	
<p>Channel downcutting, unstable banks, poor quality riparian vegetation, and invasive vegetation will be minimized through the installation of 12 grade control log-boulder channel structures together with bioengineering methods employed to stabilize the streambanks. The blackberries are to be removed with trees and understory shrubs being planted along a 50-foot riparian planting zone for 1000 feet of channel. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.</p>	

REASON FOR MODIFICATION (WHERE APPLICABLE)
Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	284,600
In-House Professional Svcs.	137,700
Land Acquisition	0
Construction	673,200
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	1,095,500
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0061 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	EVEREST PARK STREAM CHANNEL / RIPARIAN ENHANCEMENTS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Stretches of this stream are located within Everest Park and as such will require design/construction to avoid peak activity periods. Coordination with the Parks and Community Services schedule of events will be developed during the design process. A public pedestrian easement will be utilized for construction access and alternatives will need to be developed for pedestrians impacted by the construction activities.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None at this time.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Everest</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0062 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	STREAM FLOOD CONTROL MEASURES AT KIRKLAND POST OFFICE		
PROJECT LOCATION	Post Office Creek, adjacent to the Post Office parking lot near 10th Street at 5th Avenue	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

Flooding of business park property along Post Office Creek, above the Kirkland Post Office property, has occurred due to heavy weed/grass growth in the channel, a 90-degree channel turn and an undersized culvert. The channel also has poorly vegetated banks and requires ongoing dredging. This project will improve or remove the culvert under the Post Office property fence, improve riparian vegetation along the reach upstream of the culvert, remove blackberries and weeds, and replant native vegetation in an effort to reduce the frequency and magnitude of flooding, and eliminate the need for future dredging. This is a candidate project included as a component of the Annual Streambank Stabilization Program Project, SD 8888.

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	89,700
In-House Professional Svcs.	43,400
Land Acquisition	0
Construction	212,300
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	345,400
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0062 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	STREAM FLOOD CONTROL MEASURES AT KIRKLAND POST OFFICE
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>This creek runs adjacent to a public pedestrian pathway that would necessitate closure during construction that is anticipated to last approximately three to four weeks; alternate routes are located nearby.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Localized flooding and environmental degradation will continue if the sedimentation along this stretch of an unnamed creek is not addressed. Proposed riparian and channel enhancements would provide aquatic, terrestrial and avian habitat benefits as well as aesthetically pleasing community green/open space. The location of this project would provide the opportunity for public education relating to natural resources stewardship and stormwater quality.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Moss Bay</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0063 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET		
PROJECT LOCATION	Slater Avenue and Alexander Street	PROJECT START	PROJECT STATUS
		Undetermined	Modified Project

DESCRIPTION/JUSTIFICATION

Flow enters this small ravine from an approximately 135 acre upstream basin via a pipe. Severe erosion around the pipe outlet has de-stabilized a road near the ravine, and sends large quantities of sand to downstream reaches of the creek, which results in increased maintenance needs in Everest Park. Installation of a highflow bypass and/or other stabilization features will prevent further damage to the road, and will reduce delivery of sediment to downstream areas thus reducing maintenance needs. This project is a potential candidate for the Annual Streambank Stabilization Program Project (SD 8888).

REASON FOR MODIFICATION (WHERE APPLICABLE)

Project identified as potential candidate for SD 8888 - Annual Streambank Stabilization Program Project.

POLICY BASIS	PRIOR YEAR(S) BUDGET TO ACTUALS	METHOD OF FINANCING (%)	
Current service and/or functional objectives		Current Revenue	0 %
Surface Water Comprehensive Plan	Budget \$120,200	Reserve	0 %
	Actual \$1,359	Grants	0 %
	Balance \$118,841	Other Sources	0 %
		Debt	0 %
		Unfunded	100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	126,700
In-House Professional Svcs.	119,500
Land Acquisition	0
Construction	584,100
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	830,300
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0063 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>During construction of this project, adjacent property owners and motorists will be impacted by construction equipment and possible traffic detours.</i>
Community economic impacts	<i>Would reduce the potential fro property damage and road closures due to localized flooding, channel incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>Ravine is inherently unstable as it has highly erosive soils in a high seismic hazard area. It is difficult to predict when or if the walls of the ravine will collapse, but the damage that would occur if this were to happen is significant. Because of this uncertainty, there is a somewhat urgent need for this project.</i>
Feasibility, including public support and project readiness	<i>Access to the project area is relatively easy, and public support would likely by high. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Project improves water quality. Several species listed under the Federal Endangered Species Act live in Lake Washington. The City is obligated to protect these species by improving the quality of water that flows to Lake Washington.</i>
Benefits to other capital projects	<i>May reduce the required scope of SD-0061 as sediment delivery will be reduced.</i>
Implications of deferring the project	<i>Ravine is unstable. Deferring the project may increase the likelihood of ravine collapse.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Moss Bay</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0068 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	128TH AVE NE/NE 60TH STREET TO NE 64TH STREET DRAINAGE IMPROVEMENTS		
PROJECT LOCATION	128th Avenue NE between NE 60th and NE 64th Streets	PROJECT START	PROJECT STATUS
		Undetermined	Existing Project

DESCRIPTION/JUSTIFICATION	
<p>Flooding of several homes occurs during large storm events due to a nearby drainage system that has deadends. This project will modify the system to either drain to the north, or to store and infiltrate water to reduce flooding.</p>	

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	70,200
In-House Professional Svcs.	34,000
Land Acquisition	0
Construction	166,100
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	270,300
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0068 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	128TH AVE NE/NE 60TH STREET TO NE 64TH STREET DRAINAGE IMPROVEMENTS
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Little to none. Project is adjacent to City right of way on a low-traffic street</i>
Community economic impacts	<i>Little to none.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Project will prevent flooding of homes. Project may use low impact development features, which are aesthetically pleasing and which encourage infiltration of stormwater.</i>
Responds to an urgent need or opportunity	<i>Flooding occurs during large storm events, so urgency of project deepens on weather patterns.</i>
Feasibility, including public support and project readiness	<i>Project is feasible. City will need to work with neighbors to develop a project that meets aesthetic as well as flood-reduction needs.</i>
Conforms to legal or contractual obligations	<i>Project will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Not applicable</i>
Benefits to other capital projects	<i>None identified.</i>
Implications of deferring the project	<i>Flooding will continue to occur at the same frequency and magnitude.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>Bridle Trails</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>Not applicable</i> Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0070 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	JUANITA CREEK WATERSHED ENHANCEMENT STUDY		
PROJECT LOCATION	Juanita Creek Watershed	PROJECT START	PROJECT STATUS
		Undetermined	Existing Project

DESCRIPTION/JUSTIFICATION

This project is to identify opportunities for habitat restoration, especially in partnership with private parties that have an interest in constructed bank stabilization projects, and to review projects that are in proximity to each other to facilitate State and Federal permitting.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	35,000
In-House Professional Svcs.	15,000
Land Acquisition	0
Construction	0
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	50,000
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0070 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	JUANITA CREEK WATERSHED ENHANCEMENT STUDY
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>None</i>
Community economic impacts	<i>May identify projects where public habitat restoration funds can be leveraged through partnerships with private land owners</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would identify projects to improve fish habitat and water quality.</i>
Responds to an urgent need or opportunity	<i>Many land owners along Juanita Creek experienced bank erosion during the December 2007 storm, and are interested in pursuing stabilization projects.</i>
Feasibility, including public support and project readiness	<i>Project is a study. Public support would be one criteria used in prioritizing projects identified through the study.</i>
Conforms to legal or contractual obligations	<i>Addresses fish habitat restoration, which is a City obligation under the WRIA 8 Chinook Salmon Conservation Plan as adopted by the City Council.</i>
Responds to state and/or federal mandate	<i>Project is consistent with State and Federal mandates to protect and restore fish habitat.</i>
Benefits to other capital projects	<i>Project will unify an approach and goals for projects, leveraging City funds through grants. Project will coordinate with Juanita Basin Retrofitting Ecology grant project being conducted in partnership with King County and WSDOT.</i>
Implications of deferring the project	<i>Project list will be more fractured, and opportunities for partnering with private land owners may be lost.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>South Juanita, North Juanita</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? <i>No</i> Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input checked="" type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0074 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 86TH STEET STREAMBANK STABILIZATION		
PROJECT LOCATION	NE 86th Street east of 128th Avenue NE, and NE 86th and NE 87th Street, west of 128th Avenue NE	PROJECT START	PROJECT STATUS
		Undetermined	Existing Project

DESCRIPTION/JUSTIFICATION

Two small unnamed tributaries to Forbes Creek flow north from NE 86th Street at approximately 126th and 128th Avenues NE. In their current condition, these unstable channels are eroding and the material is clogging downstream drainage systems, leading to flooding. Stabilization using bioengineering techniques will reduce the frequency and severity of flooding and will improve water quality. Project will occur over approximately 500 feet of stream on private property.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Surface Water Comprehensive Plan <i>FO-04</i>	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	149,400
In-House Professional Svcs.	64,000
Land Acquisition	0
Construction	426,800
Computer Hardware/Software	0
Equipment	0
Other Services	0
Total	640,200
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0074 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	NE 86TH STEET STREAMBANK STABILIZATION
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>During construction of this project, adjacent property owners and motorists will be impacted by construction equipment and possible traffic detours.</i>
Community economic impacts	<i>Would reduce the potential for property damage, loss of business and road closures due to localized flooding, channel migration/incision, and sedimentation of stormwater infrastructure.</i>
Health and safety, environmental, aesthetic, or social effects	<i>Would reduce flooding, sedimentation, channel migration/incision associated health, safety and the above community impacts.</i>
Responds to an urgent need or opportunity	<i>This project is identified as a high priority in the Surface Water Comprehensive Plan.</i>
Feasibility, including public support and project readiness	<i>During the design development and community involvement process, the access and delivery needs of the neighbors will be addressed. This project does not present significant engineering issues. Permitting and environmental issues will be addressed during design.</i>
Conforms to legal or contractual obligations	<i>Will be designed and constructed per professional and legal standards and guidelines.</i>
Responds to state and/or federal mandate	<i>Environmental and habitat enhancement for fish including native cutthroat and other species is consistent with the Endangered Species Act.</i>
Benefits to other capital projects	<i>Project will coordinate with the Route 540 improvements along NE 85th Street by the City of Kirkland and Sound Transit, specifically TR-0078, TR-0080, NM-0051, and SD-0025.</i>
Implications of deferring the project	<i>Continued flooding, sedimentation, channel migration/incision, habitat degradation, reduction of downstream conveyance capacity, damage to downstream capital projects and possible violations of state and/or federal stormwater regulations.</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>North Rose Hill</i> Is there a specific reference to this project or land use in the immediate vicinity? How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0080 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	REGIONAL DECANT AND CITY MAINTENANCE FACILITY		
PROJECT LOCATION	TBD	PROJECT START	PROJECT STATUS
		Undetermined	New Project

DESCRIPTION/JUSTIFICATION

The project will construct a regional eductor truck decant facility for use by multiple local agencies and possibly private businesses, together with a city maintenance annex to serve the north Kirkland area. The facility will utilize recycling technologies to recover accumulated materials (rock & sand, etc.) through regular storm system cleaning. The collected material is segregated and stockpiled for re-use. Multiple neighboring agencies including, but not limited to, WSDOT, Redmond, Woodinville, Bellevue and Northshore Utilities, have expressed interest in financially participating in the project as it will serve to minimize the truck hauling times and dumping disposal costs for each, while maximizing reductions in carbon emissions. The recycled material will be available for city capital project and maintenance uses, and possible re-sale generating operational cost off-setting revenues. The Project is a prime candidate for possible grant funding, together with financial support through regional partnerships.

REASON FOR MODIFICATION (WHERE APPLICABLE)

POLICY BASIS	METHOD OF FINANCING (%)
Other Plan	Current Revenue 0 %
	Reserve 0 %
	Grants 0 %
	Other Sources 0 %
	Debt 0 %
	Unfunded 100 %

CAPITAL COSTS	COSTS TO BE FUNDED
Planning/Design/Engineering	450,000
In-House Professional Svcs.	190,000
Land Acquisition	4,000,000
Construction	5,640,000
Computer Hardware/Software	0
Equipment	220,000
Other Services	0
Total	10,500,000
NEW MAINT. AND OPER.	0
NEW FTE	0.00

**CITY OF KIRKLAND
CAPITAL IMPROVEMENT PROGRAM
2013 TO 2018**

PROJECT #	SD 0080 000
DEPARTMENT	Public Works
DEPARTMENT CONTACT	Dave Snider

PROJECT TITLE	REGIONAL DECANT AND CITY MAINTENANCE FACILITY
CRITERIA	PROJECT IMPACTS (RESPOND TO ALL SECTIONS WHICH APPLY)
Amount of public disruption and inconvenience caused	<i>Renovation of the facility will impact the surrounding neighborhood. Construction will take less than one year and will potentially cause traffic impacts.</i>
Community economic impacts	<i>N/A</i>
Health and safety, environmental, aesthetic, or social effects	<i>project will produce recycled rock and gravel materials that is normally hauled to other receiving facilities. Recycling of decanted materials will save money and reduce carbon emissions.</i>
Responds to an urgent need or opportunity	<i>N/A</i>
Feasibility, including public support and project readiness	<i>N/A</i>
Conforms to legal or contractual obligations	<i>Projects will be designed and constructed per professional and legal guidelines.</i>
Responds to state and/or federal mandate	<i>N/A</i>
Benefits to other capital projects	<i>N/A</i>
Implications of deferring the project	<i>N/A</i>
CONFORMANCE WITH ADOPTED COMPREHENSIVE PLAN	Name of Neighborhood(s) in which located: <i>City-wide</i> Is there a specific reference to this project or land use in the immediate vicinity? <i>No</i> How does the project conform to such references? Attachments: <input type="checkbox"/> (Specify)
LEVEL OF SERVICE IMPACT	<input checked="" type="checkbox"/> Project provides no new capacity (repair, replacement or renovation). <input type="checkbox"/> Project provides new capacity. Amount of new capacity provided: <input type="checkbox"/> Project assists in meeting/maintaining adopted level of service. <input type="checkbox"/> Project required to meet concurrency standards.