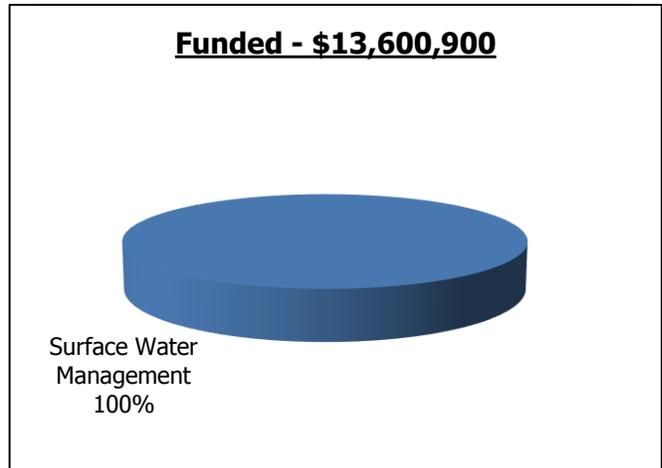
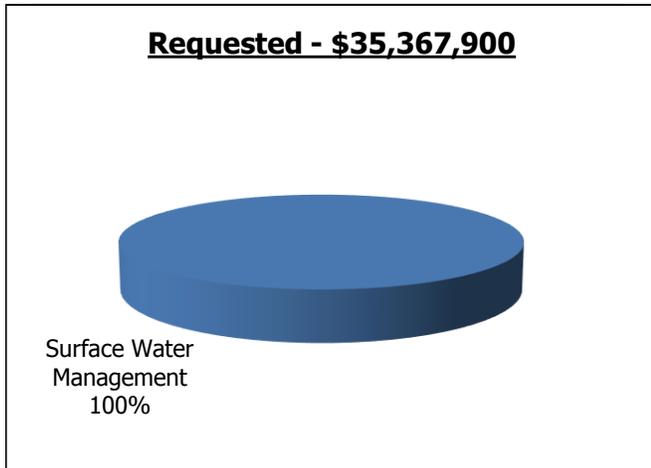


Surface Water Management Utility

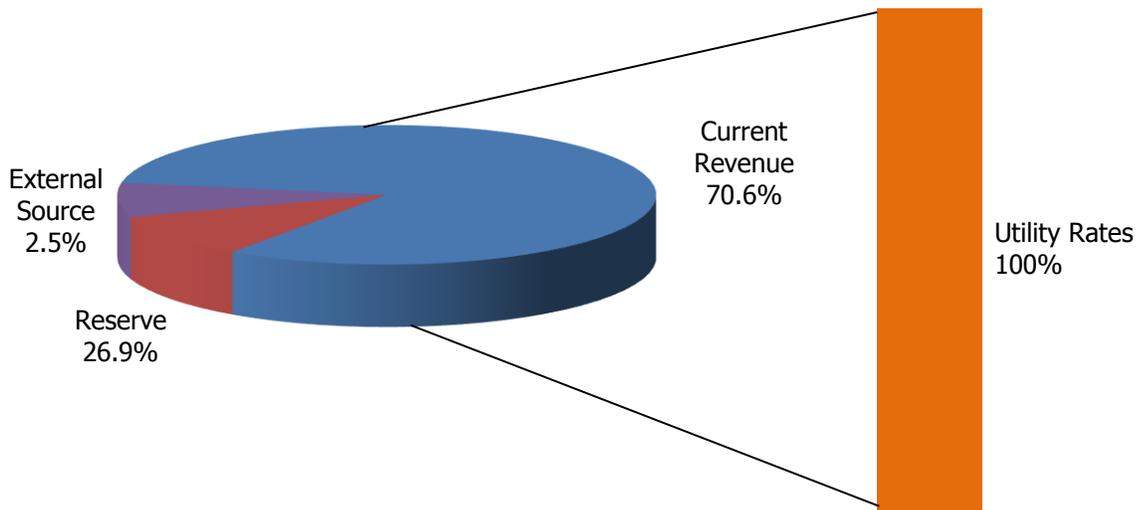


Capital Improvement Program

Surface Water Management Utility



Funding Sources



Surface Water Management Utility Funding - \$13,600,900

Average Annual Current Revenues
 Utility Rates - \$1,856,333
 Total Average Annual Revenue - \$1,856,333

**City of Kirkland
2015-2020 Capital Improvement Program**

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Funded Projects:

Project Number	Project Title	Prior Year(s)	2015	2016	2017	2018	2019	2020	2015-2020 Total	Funding Source			
										Current Revenue	Reserve	Debt	External Source
<i>SD 0047</i>	<i>Annual Replacement of Aging/Failing Infrastructure</i>		200,000		200,000	200,000	200,000	200,000	1,000,000	1,000,000			
<i>SD 0048</i>	<i>Cochran Springs / Lake Washington Blvd Crossing Enh.</i>	520,000	971,500	478,500					1,450,000	1,450,000			
<i>SD 0049+</i>	<i>Forbes Creek/108th Ave NE Fish Passage Imp</i>						230,400	179,600	410,000	410,000			
<i>SD 0063+</i>	<i>Everest Creek - Slater Ave at Alexander St</i>							360,000	360,000	360,000			
<i>SD 0067</i>	<i>NE 129th Place/Juanita Creek Rockery Repair</i>	115,500	370,000						370,000	132,100			237,900
<i>SD 0076</i>	<i>NE 141st Street/111th Avenue NE Culvert Repair</i>	181,500		76,100	683,900				760,000	760,000			
<i>SD 0077</i>	<i>Goat Hill Storm Drainage Repair</i>	153,700	168,000	672,000					840,000	840,000			
<i>SD 0078</i>	<i>Billy Creek Ravine Stabilization Phase II</i>	87,600	43,000	187,000					230,000	230,000			
<i>SD 0081</i>	<i>Neighborhood Drainage Assistance Program (NDA)</i>		50,000		50,000		50,000		150,000		150,000		
<i>SD 0084+</i>	<i>Market St, Central to 12th Ave</i>						224,000	696,000	920,000	920,000			
SD 0086	99th Place NE Stormwater Pipe Replacement		390,000						390,000	2,000	388,000		
SD 0087	Silver Spurs Flood Reduction				70,000				70,000	70,000			
SD 0088	Comfort Inn Pond Modifications			407,000	240,000				647,000	310,000			337,000
SD 0089	NE 142nd Street Surface Water Drainage Improvements				160,000				160,000	160,000			
SD 0090	Goat Hill Drainage Ditch and Channel Stabilization					320,000			320,000	320,000			
SD 0091	Holmes Point Drive Pipe Replacement		40,000	260,400	199,600				500,000	500,000			
SD 0092	Juanita Creek Culvert				140,600	519,400			660,000	660,000			
SD 0093	Pleasant Bay Apartments Line Replacement				106,900	203,100			310,000	310,000			
SD 0094	NE 114th Place Stormline Replacement							260,000	260,000	260,000			
SD 0095	NE 141st Street Stormwater Pipe Installation					170,000			170,000	170,000			
SD 0096	CKC Emergent Projects Surface Water Opportunity Fund			100,000					100,000		100,000		
SD 0097	Champagne Creek Stabilization					339,500	440,500		780,000	780,000			
SD 0098	Champagne Creek Stormwater Retrofit					120,000			120,000	120,000			
SD 0099	Goat Hill Drainage Conveyance Capacity						259,200	370,800	630,000	630,000			
SD 0100	Brookhaven Pond Modifications						301,900	313,600	615,500	615,500			
SD 0105	Property Acquisition Opportunity Fund			50,000	50,000	50,000	50,000	50,000	250,000		250,000		
SD 0106	CKC Surface Water Drainage at Crestwoods Park Permitting Study		40,000						40,000	40,000			
SD 0106 001	CKC Surface Water Drainage at Crestwoods Park Design/Construction			300,000	700,000				1,000,000		500,000		500,000
<i>SD 8888</i>	<i>Annual Streambank Stabilization Program</i>		44,200						44,200	44,200			
<i>SD 9999</i>	<i>Annual Surface Water Infrastructure Replacement Program</i>		44,200						44,200	44,200			
Total Funded Surface Water Management Utility Projects		1,058,300	2,360,900	2,531,000	2,601,000	1,922,000	2,016,000	2,170,000	13,600,900	11,138,000	1,388,000	0	1,074,900

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

SURFACE WATER MANAGEMENT UTILITY PROJECTS

Unfunded Projects:

Project Number	Project Title	Total
SD 0045	Carillon Woods Erosion Control Measures	549,600
<i>SD 0046</i>	<i>Regional Detention in Forbes and Juanita Creek Basins</i>	<i>10,000,000</i>
SD 0050	NE 95th Street/126th Avenue NE Flood Control Measures	55,900
<i>SD 0051"</i>	<i>NE 95th Street/126th Avenue NE Flood Control Measures</i>	<i>1,290,900</i>
SD 0052	Forbes Creek/Slater Avenue Embankment Stabilization	139,700
<i>SD 0053"</i>	<i>Forbes Creek/Coors Pond Channel Grade Controls</i>	<i>424,200</i>
SD 0054	Forbes Creek/Cross Kirkland Corridor 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
<i>SD 0058"</i>	<i>Surface Water Sediment Pond Reclamation (Phase II)</i>	<i>851,000</i>
SD 0061	Everest Park Stream Channel/Riparian Enhancements	1,095,500
SD 0062	Stream Flood Control Measures at Kirkland Post Office	345,400
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 0085 001	Cross Kirkland Water Quality	920,000
SD 0107	132nd Square Park Stormwater Retrofit Project	4,510,000
Subtotal Unfunded Surface Water Management Utility Projects		21,855,400
Funding Available from Annual Programs for Candidate Projects		88,400
Net Unfunded Surface Water Management Utility Projects		21,767,000

Notes

Italics = Modification in timing and/or cost (see Project Modification/Deletion Schedule for more detail)

Bold = New projects

+ = Moved from unfunded status to funded status

" = Moved from funded status to unfunded status

**CITY OF KIRKLAND
2015-2020 CAPITAL IMPROVEMENT PROGRAM
PROJECT SUMMARY**

SURFACE WATER MANAGEMENT UTILITY - Surface Water Management Utility

SD 0047 000 ANNUAL REPLACEMENT OF AGING /FAILING INFRASTRUCTURE

City-wide

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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$1,000,000	\$0	\$1,000,000

SD 0048 000 COCHRAN SPRINGS / LAKE WASHINGTON BLVD CROSSING ENHANCEMENT

Lakeview

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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2012	\$520,000	\$1,450,000	\$0	\$1,970,000

SD 0049 000 FORBES CREEK / 108TH AVENUE NE FISH PASSAGE IMPROVEMENTS

South Juanita

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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$410,000	\$0	\$410,000

SD 0063 000 EVEREST CREEK - SLATER AVENUE AT ALEXANDER STREET

Everest

Flow enters this small ravine from an approximately 135 acre upstream basin via a pipe. 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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2020	\$0	\$360,000	\$523,800	\$883,800

SD 0067 000 NE 129TH PLACE/JUANITA CREEK ROCKERY REPAIR

North Juanita

Project will evaluate the replacement of streambank rockery damaged during the December 2007 Storm, with an MSE supported concrete block wall.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2012	\$115,500	\$370,000	\$0	\$485,500

SD 0076 000 NE 141ST STREET/111TH AVENUE NE CULVERT HEADWALL REPAIR

Finn Hill

An existing 48-inch 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 Washington Department of Fish & Wildlife (WDFW) permitting will likely be required.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2013	\$181,500	\$760,000	\$0	\$941,500

SD 0077 000 GOAT HILL STORM DRAINAGE REPAIR

Finn Hill 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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2014	\$153,700	\$840,000	\$0	\$993,700

SD 0078 000 BILLY CREEK RAVINE STABILIZATION PHASE 2

Finn Hill 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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2014	\$87,600	\$230,000	\$0	\$317,600

SD 0081 000 NEIGHBORHOOD DRAINAGE ASSISTANCE PROGRAM (NDA)

City-wide Design and construct small-scale flooding solutions occurring outside the public right of way. Projects qualifying for assistance include those situations 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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$150,000	\$0	\$150,000

SD 0084 000 MARKET STREET STORM MAIN REHABILITATION

Market Rehabilitate approximately 3,050 linear feet of failing 36-inch and 24-inch diameter concrete storm pipe (joint separated) within Market Street from Central Way to 12th Avenue. Rehabilitation will be accomplished via slipping the 1,200 feet of 36-inch diameter concrete pipe from Central Way to 6th Ave with 24-inch diameter pipe and the 1,850 feet of 24-inch diameter concrete pipe from 6th Ave to 12th Ave with 20-inch diameter pipe. The annular space between the pipe diameters will be grouted. The length of 36-inch diameter pipe includes six manholes that will be rehabilitated and nine laterals to be reconnected. The 24-inch diameter pipe also includes six manholes to be rehabilitated and nine laterals to be reconnected. The cost estimate was based on linear foot costs prepared by Buno Construction in 2009 and have been adjusted for 2013 costs. The project engineering/design and inspection cost estimate is lower as a percentage of construction costs than typical capital projects due to the performance specification aspect of sliplining projects.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$920,000	\$0	\$920,000

SD 0086 000 99TH PLACE NE STORMWATER PIPE REPLACEMENT

South Juanita Replacement of the entire drainage system, including 150 feet of storm water pipe, attached curb inlets, and catch basin, manholes and other surface water infrastructure after a flooding incident displaced three families.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2015	\$0	\$390,000	\$0	\$390,000

SD 0087 000 SILVER SPURS FLOOD REDUCTION

South Rose Hill A phased approach to evaluate alternatives and design and construct the preferred alternative to reduce future flooding. The first phase of this project involves an alternatives analysis to determine the best solution to prevent future flooding. One potential alternative was already eliminated because of downstream capacity concerns. Other options include the following: A) Add more infiltration in right-of-way (ROW) or increase the size of the existing facility to maximum extent. Infiltration added in ROW shall be bioinfiltration swales, or equivalent. B) Utilize deep infiltration, such as a underground injection control (UIC) well, for high flow bypass. Deep infiltration shall be located in ROW, with a high flow bypass pipe leading from the dry well to the UIC well.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$70,000	\$0	\$70,000

SD 0088 000 COMFORT INN POND MODIFICATIONS

Totem Lake

This project was identified by the City in the 2014 Surface Water Master Plan list. Solutions for this CIP include rerouting runoff from the Cross Kirkland Corridor directly to Totem Lake. Pipe size will be 12-inch to match existing pipe sizes in the area. Other options listed below could provide addition benefits to reduce flooding. Project benefits include reducing flow to the wetland and flooding on Totem Lake Blvd. Reroute stormdrain at railroad to bypass pond/wetland, possibly connect with the stormwater feature at NE 124th St and totem Lake Blvd, then pipe to Totem Lake. Reduce contributing area to Comfort Inn pond/wetland from 24.75 acres to 16.45 acres.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2016	\$0	\$647,000	\$0	\$647,000

SD 0089 000 NE 142ND STREET SURFACE WATER DRAINAGE IMPROVEMENTS

Finn Hill

Local road and property flooding has occurred at the intersection of NE 142nd Street and 77th Ave NE in the vicinity of Inglewood Presbyterian Church. The cause of the flooding is not conclusive, and additional analyses and investigation

is needed to develop a solution. Potential options include adding an inlet structure near the intersection, channel maintenance through the wetland, adding upstream detention or infiltration, and/or installing a high flow bypass. Additional options analysis and hydrologic and hydraulic modeling is necessary to develop a viable alternative.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$160,000	\$0	\$160,000

SD 0090 000 GOAT HILL DRAINAGE DITCH AND CHANNEL STABILIZATION

Finn Hill

Reconstruct ditch line along the west side of 90th Avenue NE and abandon a culvert crossing along 90th Avenue NE. Abandon a storm drainage channel and replace a catch basin and culvert crossing along NE 117th Place. Stabilize a drainage swale with rip-rap below the culvert crossing along NE 117th Place. Install catch basins and 12-inch storm drainage pipe along 90th Avenue NE and edge grind and overlay 500 feet of roadway with a thickened edge. Upsize a 12-inch culvert crossing to a 24-inch culvert along NE 117th Place.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$320,000	\$0	\$320,000

SD 0091 000 HOLMES POINT DRIVE PIPE REPLACEMENT

Finn Hill

Currently drainage from Holmes Point Drive NE and above runs through an undersized system at 11645 Holmes Point Drive. There are no easements for maintenance of this system. Additionally, upstream of Holmes Point Dr. NE, groundwater seepage and icing in cold weather occurs along Holmes Point Dr NE. Reroute drainage along Holmes Point Drive in a new pipe to connect to an existing outfall to Lake Washington.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2015	\$0	\$500,000	\$0	\$500,000

SD 0092 000 JUANITA CREEK CULVERT

North Juanita

Install 16 foot by 5.25 foot arch fish passable culvert. Culvert width based on Washington State Department of Fish & Wildlife (WDFW) stream simulation design of 1.25 foot by 11 foot bank full width rounded to the nearest foot. Create 50 feet of restored channel at the culvert inlet and outlet and restore staging areas and channel floodplain with planting and bio-engineered surface restoration.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$660,000	\$0	\$660,000

SD 0093 000 PLEASANT BAY APARTMENTS LINE REPLACEMENT

Moss Bay

Replace, pipe burst or chemical grout, pipe section on north side of property that is rootbound. Add 12-inch polyvinyl chloride (PVC) pipe from GIS asset No. 304416 and 303609 to Lake Washington Blvd NE.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2017	\$0	\$310,000	\$0	\$310,000

SD 0094 000 NE 114TH PLACE STORMLINE REPLACEMENT

North Rose Hill Replace existing stormline with 12-inch polyvinyl chloride (PVC) storm pipe along 125th Ave NE to 126th Ave NE.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$260,000	\$0	\$260,000

SD 0095 000 NE 141ST STREET STORMWATER PIPE INSTALLATION

Finn Hill Install approximately 550 feet of new 12-inch polyvinyl chloride (PVC) storm pipe.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$170,000	\$0	\$170,000

SD 0096 000 CKC EMERGENT PROJECTS SURFACE WATER OPPORTUNITY FUND

City-wide A project in anticipation of surface water improvement needs and opportunities along the Cross Kirkland Corridor (CKC).

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2016	\$0	\$100,000	\$0	\$100,000

SD 0097 000 CHAMPAGNE CREEK STABILIZATION

North Juanita 500 feet of roughened channel using a mixture of large boulders, cobbles, gravels, sand, and large wood.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$780,000	\$0	\$780,000

SD 0098 000 CHAMPAGNE CREEK STORMWATER RETROFIT

Finn Hill Construct a 2,500 square feet rain garden at the intersection. Install a flow splitter structure at end of existing driveway culvert. High flows bypass the rain garden via the existing asphalt ditch.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2018	\$0	\$120,000	\$0	\$120,000

SD 0099 000 GOAT HILL DRAINAGE CONVEYANCE CAPACITY

South Juanita Project includes the following improvements: replacement of 12-inch culvert along NE 118th Place; replacement of 8-inch storm drainage pipe with a 12-inch storm drainage pipe; Replacement of a 8-inch culvert with a 12-inch culvert along NE 166th Place; Replacement of Type 1 Catch basin along NE 116th Place; Replacement of 12-inch storm drainage pipe with 24-inch storm drainage pipe; and replacement of catch basins with storm drainage manholes.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$630,000	\$0	\$630,000

SD 0100 000 BROOKHAVEN POND MODIFICATIONS

North Juanita Converts pond to floodplain; Grade existing pond to provide storage. Establish plantings for habitat and to disperse flow as it enters the floodplain. Install bio-engineered floodplain structures (anchored as needed). Install Filterra systems along 100th Ave NE for water quality and to separate runoff from 100th Ave NE and NE 127th Place. NE 127th Pl Drainage will discharge directly to Juanita Creek with no new Filterra units.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2019	\$0	\$615,500	\$0	\$615,500

SD 0105 000 PROPERTY ACQUISITION OPPORTUNITY FUND

City-wide An opportunity fund to acquire riparian and wetland properties in the City for improving surface water quality and runoff.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$250,000	\$0	\$250,000

SD 0106 000 CKC SURFACE WATER DRAINAGE AT CRESTWOODS PARK PERMITTING STUDY

Highlands

Perform site investigation, biological investigation, and permitting study in preparation for design of repair for a 24-inch reinforced concrete pipe culvert crossing the Cross Kirkland Corridor (CKC) and carrying an identified stream. Stream is an unnamed tributary to Forbes Creek.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2015	\$0	\$40,000	\$0	\$40,000

SD 0106 001 CKC SURFACE WATER DRAINAGE AT CRESTWOODS PARK DESIGN/CONSTRUCTION

Totem Lake

Design and construct repair for 24-inch Reinforced Concrete Pipe culvert, crossing the Cross Kirkland Corridor (CKC) between NE 104th St and 111th Ave NE, and carrying an unnamed tributary to Forbes Creek. The existing pipe is too short and has caused undermining of the adjacent slopes and trail at the outfall. A fall of approximately 5 vertical feet currently exists from the outlet invert to the adjacent stream bed, leading to backsplash and slope failure observed.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
2016	\$0	\$1,000,000	\$0	\$1,000,000

SD 8888 000 ANNUAL STREAMBANK STABILIZATION PROGRAM

City-wide

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 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.

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$44,200	\$0	\$44,200

SD 9999 000 ANNUAL SURFACE WATER INFRASTRUCTURE REPLACEMENT PROGRAM

City-wide

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 0046 - Regional Detention in Forbes and Juanita Basins, SD 0050 - NE 95th St/126th Ave NE Flood Control Measures, SD 0054 - Forbes Creek/Cross Kirkland Corridor Fish Passage Improvements

PROJECT START	Prior Year(s)	2015-2020 Total	Future Year(s)	TOTAL PROJECT
Ongoing	\$0	\$44,200	\$0	\$44,200

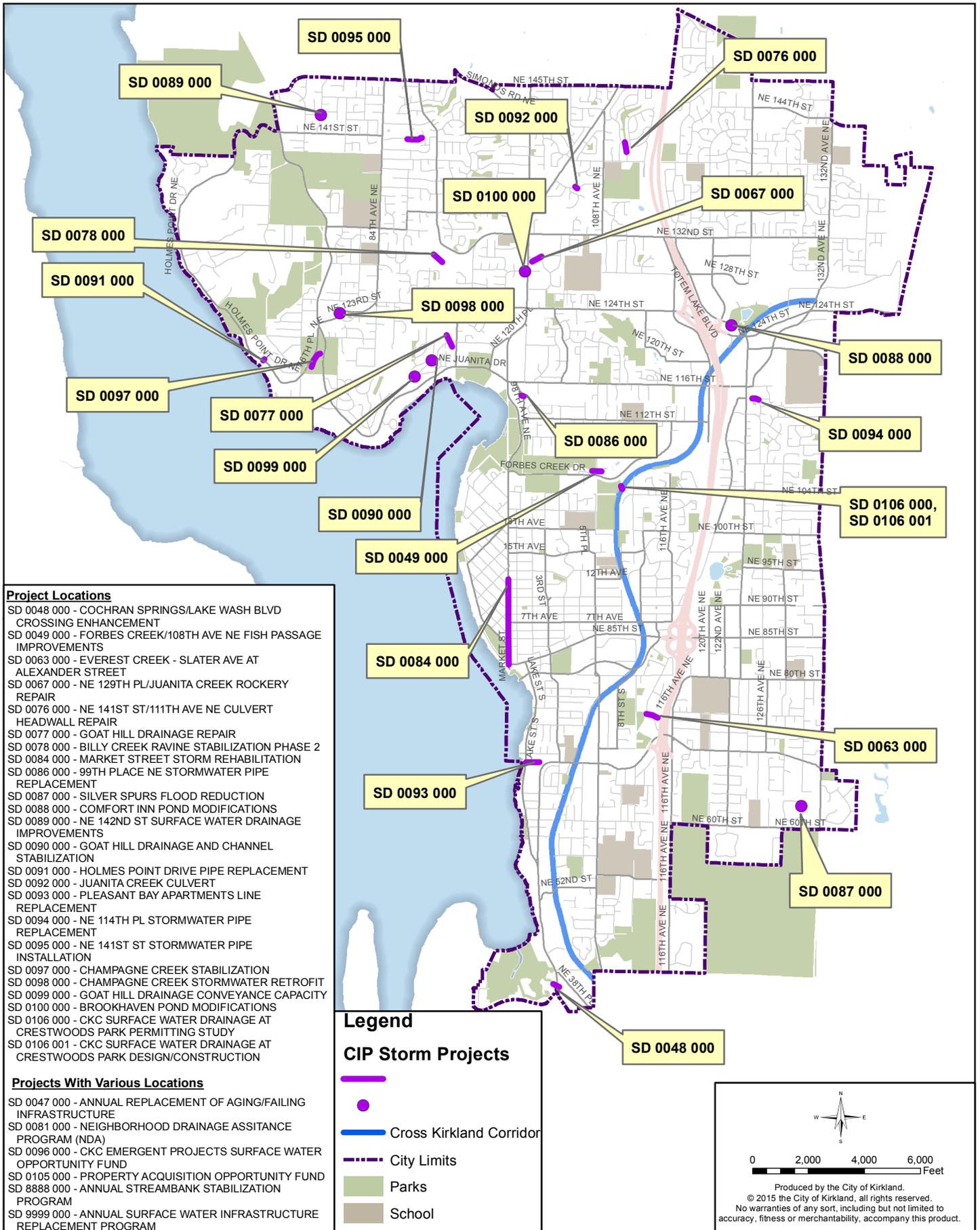
City of Kirkland 2015-2020 Capital Improvement Program

ACTIVE PROJECTS-SURFACE WATER

Prior Activity - Projects Active as of 12/31/2014:

Project Number	Project Title	Proj. Budget through 2014*	Expenses through 2014	Proj Balance 12/31/2014
SD 0025	NE 85th Street Detention	621,800	385,147	236,653
SD 0048	Cochran Spr/Lk Wash Blvd	520,000	286,389	233,611
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	89,619	170,581
SD 0058	Surface Water Sediment Pond Reclamation Phase II	115,400	35,664	79,736
SD 0059	Totem Lake Blvd Flood Control	1,936,200	797,899	1,138,301
SD 0067	NE 129th Pl/Juanita Creek Rockery Repair	115,500	90,073	25,427
SD 0075	Totem Lake Twin 42 Inch Culvert Replacement	4,416,000	4,025,872	390,128
SD 0076	NE 85th Street Detention & Sediment Control	181,500	37,887	143,613
SD 0077	Annual Replacement of Aging/Failing Infrastructure	153,700	66,084	87,616
SD 0078	Cochran Springs / Lake Washington Blvd Crossing Enh.	87,600	16,121	71,479
SD 0079	Forbes Creek/KC Metro Access Road Culvert Enh.	160,000	151,565	8,435
SD 0082	Kirkland Decant Facility Expansion	1,268,000	246,204	1,021,796
SD 0083	7th Avenue S Storm Main Replacement	240,000	86,140	153,860
SD 0085	Cross Kirkland Corridor (CKC) Storm Water Retrofit	120,000	110,495	9,505
SD 1347	2013 Replacement of Aging/Failing Infrastructure	200,000	87,174	112,826
SD 1381	2013 Neighborhood Drainage Assistance Program (NDA)	50,000	-	50,000
SD 1447	2014 Replacement of Aging/Failing Infrastructure	200,000	21,102	178,898
Total		10,878,100	6,621,529	4,256,571

*Includes prior years' project balance plus 2013-14 funding



Funded Storm CIP