

**CITY OF BEAVERTON**

**BUDGET TREND ANALYSIS - FY 09-10 TO FY 12-13**

**With Explanations on Significant Changes Between Estimated 11-12 and Recommended 12-13**

Fund: **STORM DRAIN**

Department: **Funding of Storm Drain Projects**

<i>Class</i>	<i>Actual 09-10</i>	<i>Actual 10-11</i>	<i>Budgeted 11-12</i>	<i>Estimated 11-12</i>	<i>Recommended 12-13</i>	<i>% Change Budgeted vs. Recommended</i>
Capital outlay	\$1,241,328	\$1,668,965	\$2,043,454	\$1,758,281	\$2,570,000	25.8%
Transfers		\$4,899	315,000	115,000	600,000	90.5%
<b>TOTAL</b>	<b>\$1,241,328</b>	<b>\$1,673,864</b>	<b>\$2,358,454</b>	<b>\$1,873,281</b>	<b>\$3,170,000</b>	

Construction and improvement projects are as follows:

<i>Project No.</i>		<i>Budgeted 11-12</i>	<i>Recommended 12-13</i>
3310	Downtown Creek Master Plan		\$350,000
3915	Miscellaneous Conveyance Projects	\$440,872	442,000
3916	Miscellaneous Quantity Projects	6,000	7,000
3917	Miscellaneous Quality Projects	302,000	334,000
3950	Miscellaneous Replacement Projects	1,294,582	1,437,000
		<b>\$2,043,454</b>	<b>\$2,570,000</b>

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2012-13 BUDGET

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX STORM DRAIN PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**STORM DRAINAGE PROGRAM**

The Storm Drainage Program is based on the 1994 Storm Drainage Master Plan, engineering consultant studies of specific streams and watersheds in Beaverton, the Clean Water Services Healthy Streams Plan, the City's ongoing maintenance history and television scan (internal inspection) reports and stormwater system performance observations by engineering staff during actual heavy rainfall events. The plans, studies and reports help staff identify the improvements that are needed to convey or detain a 25-year storm. First hand engineering staff observations during heavy rainfall is then used to validate and adjust the necessary designs. The priority for the design and construction of the associated improvements is based on the highest potential to safeguard public and private property from damage due to storm events. Project selection and implementation are vetted to embrace the spirit and direction of the Beaverton Community Vision Action Plan. A well functioning and reliable storm drainage system is a key foundational element that makes many of the goals of the Beaverton Community Vision Action Plan possible, including:

- *Community Vision Action #101: Establish Beaverton Creek as an Urban Amenity*
- *Community Vision Action #114: Promote Native Plants*
- *Community Vision Action #37: Improve Downtown Walkability*

**Progress on FY 2011-12 Action Plan:**

- Continued work on the storm drainage master plans and other drainage studies.
- Provided technical support to BURA (Beaverton Urban Redevelopment Agency) and the Beaverton Civic plan.
- Kept up to date with the NPDES (National Pollutant Discharge Elimination System) MS-4 (Municipal Separate Storm Sewer System) permit renewal process.
- Coordinated activities with local agency partners.

**FY 2012-2013 Action Plan:**

- 3192: Provide technical support for the Hocken Bridge project. The replacement of the existing culverts with a bridge will reduce flood frequency of downtown Beaverton and will providing improved emergency access during major rainfall events.
- 3320: Hall Creek Enhancement – 114<sup>th</sup> to 117<sup>th</sup>
- 8043: Finish the construction of the Erickson Creek at Carousel Ct. stormwater quality structure.
- 8085: Continue replacing catch basins with ones that are less prone to becoming clogged with leaves and other debris.
- 8089A&B: Continue design and start phase one construction of storm drain pipe replacement in Dover Lane area.
- 8100: Small Works Projects that include miscellaneous structural repairs/improvements on the existing stormwater system that improve reliability, reduce flooding potential, or improve the water quality of the areas creeks.
- 8101: Continue the master planning and engineering design for storm outfall retrofit projects and construct selected projects.
- 4105 Construct storm water filters in conjunction with the replacement of Washington County's Scholls Ferry Rd. bridge near Allen Blvd.
- 8102: Storm Conduit and Catch Basin Repairs on streets scheduled for Pavement Overlays
- 8104: Implement pre-treatment retrofits for storm filters on Murray Road and Oleson Rd for reduced maintenance
- 8106: Continue Design and permit processing thru state and federal natural resource agencies and possibly start construction of Little Peoples Park Storm Detention Pond Maintenance and Rehabilitation.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2012-13 BUDGET

<b>FUND:</b> 513 STORM DRAIN	<b>DEPARTMENT:</b> PUBLIC WORKS
<b>PROGRAM:</b> 3XXX STORM DRAIN PROJECTS	<b>PROGRAM MANAGER:</b> DAVID WINSHIP

**FY 2012-2013 Action Plan (continued):**

- 8109: Beaverton Hillsdale Highway at Griffith Drive Outfall Retrofit – Engineering funded by City – Construction will proceed with ODOT funding only (via grant). Will treat surface water runoff prior to discharge into Beaverton Creek
- 8011: 11600 SW Canyon Rd. Water Quality Swale. Will treat surface water runoff prior to discharge into Beaverton Creek
- 8012: 102<sup>nd</sup> Ave South of Heather Ln. Storm Drain Replacement
- 8013: 139<sup>th</sup> Ave Storm Maintenance Access with Pre-treatment Manhole
- 8014: Creek Debris Screen Replacements. Replace screen at 177<sup>th</sup> on Hall Creek and one of the screens on Greenbrier Parkway. Having a functional debris screen improves storm system reliability and reduces flooding resulting from debris flows
- 8115: SW 11<sup>th</sup> and 107<sup>th</sup> Conveyance Pipe Increase. This will greatly reduce (but not eliminate) flooding frequency in this part of town.

**Funding:**

Storm drainage improvements are funded by the Storm Drain Fund through utility fees set out in Beaverton code. "Increased-capacity" improvements are financed through Systems Development Charges (SDCs), of which there are three: storm water conveyance, storm water quantity control, and storm water quality control. "Maintenance and replacement" projects are financed by a \$2 per month storm drain surcharge to the regular service charge collected by Clean Water Services. Surcharge revenue is segregated from other storm drain revenues to be used generally for the purposes of replacing, renewing and improving the storm drainage system.

Clean Water Services continues to increase their charges each year. In 2012-13 the 50¢ per month increase is offset by a reduction in the City's \$2/month surcharge to only \$1.50. This amount is still sufficient to fund priority activities in this fund.

**City of Beaverton**  
**CIP Financial Plan - Storm Drain**  
**FY 11-12 Adopted**

	Funding Sources				Total for Fiscal Year
	SDC		Maint. & Repl.	Grant Funding	
	Conveyance	Q & Q			
<b>Estimated Beginning Balance @ 07/01/11</b>	2,362,275	852,948	2,885,692		6,100,915
<b>Estimated Additional Resources for FY 11-12</b>	311,493	31,151	759,578	193,000	1,295,222
<b>Total Available in FY 11-12</b>	<b>2,673,768</b>	<b>884,099</b>	<b>3,645,270</b>	<b>193,000</b>	<b>7,396,137</b>
<b>CIP Proj.#</b>					
3915 Storm Water Conveyance Project, SDC					
8022C Hocken Bridge (Final ROW, Final Eng. Final Permitting)	115,000	(Transfer 814)			115,000
3317 Dawson Wy Extension at Hocken Ave	45,000				45,000
8023 Strategic drainage (buffer) easement/property acquisition	10,000				10,000
8100 Small Works Projects, Eng. Svcs., and In-house OH Charges	70,000				70,000
Program 3915 Total					240,000
3916 Storm Water Quantity Project, SDC					
8100 Small Works Projects, Eng. Svcs., and In-house OH Charges		6,000			6,000
Program 3916 Total					6,000
3917 Storm Water Quality Project, SDC					
8043 Outfall WQ retrofit: Erickson Ck Trib. Carousel Ct Ph 1 - Construction		130,000			130,000
Pre-treatment Retrofit: Murray & Oleson Rd Storm filter vaults (design)		60,000			60,000
8101 Master Planning - Multi-year List of Storm Outfall Retrofit Projects		70,000			70,000
8101 Streetside Rain Gardens on Main Ave in conjunction with Traffic Calming		35,000			35,000
8100 Small Works Projects, Eng. Svcs., and In-house OH Charges		7,000			7,000
Program 3917 Total					302,000
3950 Maintenance & Replacement Program					
8074 Erickson Creek At Farmington/Menlo Nature Pond (Carry-over)			139,000	193,000	332,000
Allen Blvd near HWY 217 Floodwater Management Study			40,000		40,000
Storm Conduit and CB Repair			75,000		75,000
Little Peoples Park Creek and Wetland Enhancement (design and permit)			130,000		130,000
3310 Beaverton Downtown Creek Master Planning (Transfer 814)			200,000		200,000
6076 Belaire Utility Repairs, Phase one, (storm part of San sewer rehab project)			55,000		55,000
8023 Strategic drainage (buffer) easement/property acquisition			10,000		10,000
Westside #1 Flow Control Structure Replacement and conduit realignment			45,000		45,000
Storm system near Hall and Nimbus (Marriott) fix			45,000		45,000
3225 155th Sidewalk/Waterline Improvement Project			62,000		62,000
6072 Main Ave (5th-Farmington) Sanitary Sewer Renewal Project			65,000		65,000
8098 Dover Lane, near Oleson -- storm drain realignment (Construction)			90,000		90,000
8101 Master Planning - Multi-year Catch Basin Replacements			25,000		25,000
8085 Priority Catch Basin Repl (Sags) with less clogging Design 5 ea			30,000		30,000
8100 Small Works Projects, Eng. Svcs., and In-house OH Charges			80,000		80,000
Program 3950 Total					1,284,000
<b>Total Project cost in FY 11/12</b>	<b>240,000</b>	<b>308,000</b>	<b>1,091,000</b>	<b>193,000</b>	<b>1,832,000</b>
<b>Estimated Ending Balance @ 6/30/12</b>	<b>2,433,768</b>	<b>576,099</b>	<b>2,554,270</b>	<b>0</b>	<b>5,564,137</b>

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

**City of Beaverton**  
**CIP Financial Plan - Storm Drain**  
**FY 11-12 Estimate**

		Funding Sources				Total for Fiscal Year
		SDC			Maint. & Repl.	
		Conveyance	Quantity	Quality		
<b>Actual Beginning Balance 07/01/2011</b>		2,721,305	542,421	382,389	3,491,937	7,138,052
<b>Estimated Additional Resources for FY 11-12</b>		211,711	22,334	21,646	614,209	869,900
<b>Total Available in FY 11-12</b>		<b>2,933,016</b>	<b>564,755</b>	<b>404,035</b>	<b>4,106,146</b>	<b>8,007,952</b>
<b>CIP#</b>	<b>Proj #</b>					
3915	Storm Water Conveyance Project, SDC					
	3192 Hocken Bridge (Final ROW, Final Eng, Final Permitting)	115,000		(Transfer 814 TO 3192)		115,000
	8099 Lower Westside Storm drain Interceptor Upsizing	309,379				309,379
	3317 Dawson Wy Extension at Hocken Ave	45,000				45,000
	3225 Stream Daylighting near 155th Ave and Sexton Mtn Dr	64,959				64,959
	Beav Creek Landscape maintenance	5,648				5,648
	6043 South Central Area C, Phase 1 - Changer order 4 to Wallis Eng	4,010				4,010
	8115 SW 11th and 107th conveyance pipe increase	15,000				15,000
	8100 Small Works Projects, Eng. Svcs., and In-house OH Charges	12,000				12,000
	Program 3915 Total					570,996
3916	Storm Water Quantity Project, SDC					
	8100 Small Works Projects, Eng. Svcs., and In-house OH Charges		1,000			1,000
	Program 3916 Total					1,000
3917	Storm Water Quality Project, SDC					
	8043 Outfall WQ retrofit: Erickson Ck Trib. Carousel Ct Ph 1 - Construction			110,000		110,000
	8104 Pre-treatment Retrofit: Murray & Oleson Rd Storm filter vaults (design)			10,000		10,000
	8101 Master Planning - Multi-year List of Storm Outfall Retrofit Projects			10,000		10,000
	8110 Streetside Rain Gardens on Main Ave			65,000		65,000
	Program 3917 Total					195,000
3950	Maintenance & Replacement Program					
	8099 Lower Westside Storm drain Interceptor Repair (Carry-over)				209,584	209,584
	8074 Erickson Creek At Farmington/Menlo Nature Pond (Carry-over)				40,254	40,254
	8107 Allen Blvd near HWY 217 Floodwater Management Study				1,000	1,000
	8102 Storm Conduit and CB Repair on Hall and Lombard, Western?				16,216	16,216
	8106 Little People's Park Storm Detention Pond Maint and Rehab				80,000	80,000
	6076 Belaire Utility Repairs				55,000	55,000
	8023 Strategic drainage (buffer) easement/property acquisition				0	0
	8097 Westside #1 Flow Control Structure Replacement and conduit realignment				25,000	25,000
	8105 Storm system near Hall and Nimbus (Marriott) fix				242,000	242,000
	3225 Stream Daylighting near 155th Ave and Sexton Mtn Dr				64,959	64,959
	6072 Main Ave (5th-Farmington) Sanitary Sewer Renewal Project				5,000	5,000
	8089 Dover Lane north/south planning -- storm drain pipe replacement				43,000	43,000
	8101 Master Planning - Multi-year Catch Basin Replacements				15,000	15,000
	8085 Priority Catch Basin Repl (Sags) with less clogging Design 5 ea				19,272	19,272
	8100 Small Works Projects, Eng. Svcs., and In-house OH Charges				55,000	55,000
	8059 Hiteon Ck Scope Development				20,000	20,000
	4105 Scholls Ferry Road-Fanno Creek Bridge - Waterline Relocation				15,000	15,000
	Program 3950 Total					906,285
3310	3310 Beaverton Downtown Creek Master Planning				200,000	200,000
<b>Total Project cost in FY 11/12</b>		<b>570,996</b>	<b>1,000</b>	<b>195,000</b>	<b>1,106,285</b>	<b>1,873,281</b>
<b>Estimated Ending Balance @ 6/30/12</b>		<b>2,362,021</b>	<b>563,755</b>	<b>209,035</b>	<b>2,999,861</b>	<b>6,134,672</b>

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

**City of Beaverton**  
**CIP Financial Plan - Storm Drain**  
**FY 12-13 Recommended**

		Funding Sources					Total for Fiscal Year
		SDC			Maint. & Repl.	Grant Funding	
		Conveyance	Quantity	Quality			
<b>Estimated Beginning Balance @ 07/01/12</b>		2,362,021	563,755	209,035	2,999,861		6,134,672
<b>Estimated Additional Resources for FY 12-13</b>		210,430	12,489	20,923	663,177	190,900	1,097,919
<b>Total Available in FY 12-13</b>		<b>2,572,451</b>	<b>576,244</b>	<b>229,958</b>	<b>3,663,038</b>	<b>190,900</b>	<b>7,232,591</b>
<b>CIP#</b>	<b>Proj#</b>						
3915	Storm Water Conveyance Project, SDC						
	3192 Hocken Bridge (final ROW, Plans Looking for matching funds)	600,000		(Transfer 814 TO 3192)		0	600,000
	6082 SW 11th and 107th conveyance pipe increase	270,000					270,000
	3320 Hall Creek Enhancement - 114th to 117th ( <i>proceeds only if Metro grant is awarded</i> )	41,000				41,000	82,000
	8023 Strategic drainage (buffer) easement/property acquisition	10,000					10,000
	8113 Small Works Projects, Eng. Svcs., and In-house OH Charges	70,000					70,000
	6083 So. Cooper Mtn. Infrastructure Study	10,000					10,000
	<b>Program 3915 Total</b>						<b>1,042,000</b>
3916	Storm Water Quantity Project, SDC						
	8113 Small Works Projects, Eng. Svcs., and In-house OH Charges		7,000				7,000
	<b>Program 3916 Total</b>						<b>7,000</b>
3917	Storm Water Quality Project, SDC						
	8109 BH Hwy at Griffith Dr Outfall Retrofit ( <i>proceeds only if ODOT grant awarded</i> )			37,100		149,900	187,000
	8111 11600 SW Canyon Rd WQ Swale			75,000			75,000
	8104 Pre-treatment Retrofit: Murray & Oleson Rd Storm filters (Const site 1 & 2, Eng Site 3)			50,000			50,000
	8113 Small Works Projects, Eng. Svcs., and In-house OH Charges			22,000			22,000
	<b>Program 3917 Total</b>						<b>334,000</b>
3950	Maintenance & Replacement Program						
	8098B Dover Lane North-- Storm drain pipe replacement				440,000		440,000
	8098A Dover Lane South-- Storm drain pipe replacement				33,000		33,000
	8106 Little People's Park Storm Detention Pond Maint and Rehab				240,000		240,000
	8102 Storm Conduit and CB Repair on Overlay Streets - Main Ave., Etc				140,000		140,000
	8112 102nd Ave S of Heather Ln Storm Drain Replacement				90,000		90,000
	8115 139th Ave Storm Maintenance Access with pre-treatment Manhole				50,000		50,000
	8114 Creek Debris Screen Replacements, 117th at Hall Ck, Greenbrier, Etc				40,000		40,000
	8085 Priority Catch Basin Repl (Sags) with less clogging Design 5 ea				35,000		35,000
	8023 Strategic drainage (buffer) easement/property acquisition				10,000		10,000
	6076 Belaire Utility Repairs				65,000		65,000
	8113 Small Works Projects, Eng. Svcs., and In-house OH Charges				160,000		160,000
	4105 Scholls Bridge at Fanno Creek Storm Filters (MSTIP Proj Opportunity)				134,000		134,000
	<b>Program 3950 Total</b>						<b>1,437,000</b>
3310	3310 Beaverton Downtown Creek Master Planning				350,000		350,000
<b>Total Project cost in FY 12/13</b>		<b>1,001,000</b>	<b>7,000</b>	<b>184,100</b>	<b>1,787,000</b>	<b>190,900</b>	<b>3,170,000</b>
<b>Less Equipment Replacement Reserve</b>					(220,559)		
<b>Estimated Ending Balance @ 6/30/13</b>		<b>1,571,451</b>	<b>569,244</b>	<b>45,858</b>	<b>1,655,479</b>	<b>0</b>	<b>3,842,032</b>

Note: Shaded projects are to be completed by city workers, application or installation of materials only.  
Grant funding shown is assumed. No grant funding has been secured as of date shown above.

**BUDGET PREPARATION WORKSHEET SUMMARY**

FUND: 513 STORM DRAIN FUND

DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2010 - ACTUAL		2011 - ACTUAL		2012 BUDGETED		2012 YTD	2012	2013 - RECOMD		2013 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE

CLASS: 15 CAPITAL OUTLAY

652 RIGHT-OF-WAY AND EASEMENT COST

	383,974		2,000		31,000					22,000		
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682 CONSTRUCTION

	682,772		1,453,173		1,576,454		833,441	1,177,353		1,693,900		
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683 CONST DESIGN & ENGR INSPECTION

	174,582		213,792		436,000		238,152	580,928		854,100		
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TOTAL CLASS: 15 CAPITAL OUTLAY

	1,241,328		1,668,965		2,043,454		1,071,593	1,758,281		2,570,000		
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CLASS: 25 TRANSFERS

814 TRSFERS TO CAPITAL PROJ. FUND

			4,899		315,000			115,000		600,000		
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TOTAL CLASS: 25 TRANSFERS

			4,899		315,000			115,000		600,000		
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TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS

	1,241,328		1,673,864		2,358,454		1,071,593	1,873,281		3,170,000		
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1156